



## ***RECYCLE 2018***

### ***INTERNATIONAL CONFERENCE ON WASTE MANAGEMENT***

**22-24 February 2018**

**Venue: Conference center, IIT Guwahati**

<b>Day - 1</b>					
<b>Registration (08:00 – 09:15h)</b>					
<b>Inauguration Ceremony (09:15 – 10:15h)</b>					
<b>Keynote Talk 1 (10:15 – 11:15h)</b>					
<b>High Tea (11:15 – 11:30 h)</b>					
<b>Session</b>	<b>Time</b>	<b>Hall 1</b>	<b>Hall 2</b>	<b>Hall 3</b>	<b>Hall 4</b>
<b>Theme</b>		<b>Biological treatment and energy production (BTEP)</b>	<b>Reduce, reuse, recycle, remediation concepts &amp; implementation strategies (RCIS)</b>	<b>Wastewater treatment and reuse (WTR)</b>	<b>Any other issues (AOI)</b>
<b>Chair persons</b>					
Oral Presentation 1	11:30 – 13:00 h	ICWM-BTEP-01; 02; 05; 06; 13; 14	ICWM-RCIS-01; 02; 04; 05; 06	ICWM-WTR-01 to ICWM-WTR-06	ICWM-AOI-01 to ICWM-AOI-06
<b>Lunch + Poster Presentation I (13:00 - 14:30 h)</b>					



**Keynote Talk 2 ( 14:30 – 15:30 h)**

**Keynote Talk 3 (15:30-16:10 h)**

*High Tea (16:10 – 16:25 h)*

Session	Time	Hall 1	Hall 2	Hall 3	Hall 4
<b>Theme</b>		<b>Reduce, reuse, recycle, remediation concepts &amp; implementation strategies (RCIS) + Landfilling (LF)</b>	<b>Thermal treatment and advanced technologies (TTAT) + Generation, Collection, storage and transportation of Solid waste (GCSTS)</b>	<b>Waste Management Policies and its legislation (WMPL)</b>	<b>Wastewater treatment and reuse (WTR)</b>
<b>Chair persons</b>					
Oral Presentation 2	16:25 – 18:00 h	ICWM-RCIS-03; ICWM-RCIS-07 To ICWM-RCIS-11 And ICWM-LF-01 to ICWM-LF-07	ICWM-TTAT-01 to ICWM-TTAT-08 And ICWM-GCSTS-01 to ICWM-GCSTS-04	ICWM-WMPL-01 To ICWM-WMPL-10 ICWM-WMPL-12	ICWM-WTR-07 to ICWM-WTR-16



**Day – 2**

**Keynote Talk 4 (09:15 – 10:15 h)**

**Keynote Talk 5 (10:15 – 11:15 h)**

**High Tea (11:15 – 11:30 h)**

Session	Time	Hall 1	Hall 2	Hall 3	Hall 4
<b>Theme</b>		<b>Biological treatment and energy production (BTEP)</b>	<b>Reduce, reuse, recycle, remediation concepts &amp; implementation strategies (RCIS)</b>	<b>Wastewater treatment and reuse (WTR)</b>	<b>Any other issues (AOI)</b>
<b>Chair Persons</b>					
Oral Presentation 3	11:30 – 13:00 h	ICWM-BTEP-07 to ICWM-BTEP-12	ICWM-RCIS-12 to ICWM-RCIS-17	ICWM-WTR-17 to ICWM-WTR-22	ICWM-AOI-07 to ICWM-AOI-12

***Lunch + Poster Presentation II (13:00 - 14:30 h)***

**Keynote Talk 6 (14:30 – 15:30 h)**

**Keynote Talk 7 (15:30-16:10 h)**



<i>High Tea (16:10 – 16:25 h)</i>					
<b>Session</b>	<b>Time</b>	<b>Hall 1</b>	<b>Hall 2</b>	<b>Hall 3</b>	<b>Hall 4</b>
<b>Theme</b>		<b>Biological treatment and energy production (BTEP)</b>	<b>Reduce, reuse, recycle, remediation concepts &amp; implementation strategies (RCIS)</b>	<b>Wastewater treatment and reuse (WTR)</b>	<b>Any other issues (AOI)</b>
<b>Chair Persons</b>					
Oral Presentation 4	16:25 – 18:00 h	ICWM-BTEP-03; 04; 15; 16; 17	ICWM-RCIS-18 to ICWM-RCIS-23	ICWM-WTR-23 to ICWM-WTR-28	ICWM-AOI-13 ICWM-AOI-15 to ICWM-AOI-18
<i>Cultural programme and dinner (18:00 – 21:00 h)</i>					



**Day – 3**

**Keynote Talk 8 (09:15 – 10:15 h)**

**Keynote Talk 9 (10:15 – 11:15 h)**

**High Tea (11:15 – 11:30 h)**

Session	Time	Hall 1	Hall 2	Hall 3	Hall 4
<b>Theme</b>		<b>Reduce, reuse, recycle, remediation concepts &amp; implementation strategies (RCIS)</b>	<b>Biological treatment and energy production (BTEP)</b>	<b>Wastewater treatment and reuse (WTR)</b>	<b>Any other issues (AOI)</b>
<b>Chair Persons</b>					
Oral Presentation 5	11:30 – 13:00 h	ICWM-RCIS-24 to ICWM-RCIS-27 ICWM-WMPL-11	ICWM-BTEP-18 To ICWM-BTEP-21	ICWM-WTR-29 to ICWM-WTR-36	ICWM-AOI-19 to ICWM-AOI-22 ICWM-AOI-14

*Lunch (13:00 - 14:30 h)*

**Springer workshop (14:30-16:10 h)**

*High Tea (16:10 – 16:25 h)*

*Valedictory (16:25-18:00 h)*

## RECYCLE - 2018 (Registered Participants for ORAL Presentation)

### WASTE MANAGEMENT POLICIES AND ITS LEGISLATION (WMPL)

Submission No.	Author Name	Title of the abstract	Presentation	Recycle name
4	Amar Kumar Das	Effective utilization of kitchen waste for producing biogas by anaerobic co-digestion process	Oral	ICWM-WMPL-01
8	S P Sarmah	Allocation of bins in urban waste collection system	Oral	ICWM-WMPL-02
23	Pankaj Pathak	Sorption characteristics of strontium in bentonite buffer material	Oral	ICWM-WMPL-03
36	Bhagyashree Patil	Social and policy study for municipal solid waste management planning model for small towns in maharashtra : case of mowad	Oral	ICWM-WMPL-04
36	Ankita Rathor	Social and policy study for municipal solid waste management planning model for small towns in maharashtra : case of mowad	Oral	ICWM-WMPL-04
58	Hansal Suthar	Design of mswm plan using waste forecasting and sanitary landfill assessment & design	Oral	ICWM-WMPL-05
58	Ankita Rathor	Design of mswm plan using waste forecasting and sanitary landfill assessment & design	Oral	ICWM-WMPL-05
81	Sopun Borah	Heavy metal leaching behavior and characterization of biomedical ash	Oral	ICWM-WMPL-06
81	Krishnamurthy M P	"Heavy metal leaching behavior and characterization of biomedical ash"	Oral	ICWM-WMPL-06
127	Gaurang Asthana	Experimental investigation of waste glass powder as filler in asphalt concrete mixes	Oral	ICWM-WMPL-07
164	Mrityunjoy Mahato	A focused review on waste plastic conversion into carbon materials	Oral	ICWM-WMPL-08
169	Madhu Lisha	Moisture susceptibility of open graded friction course mixes with	Oral	ICWM-WMPL-09

	Pattanaik	industrial waste		
179	Lekshmi B	Significance of the persistence of micro-pollutants in treated wastewaters and surface waters in india	Oral	ICWM-WMPL-10
197	Bini Samal	Open dumping of waste and its impact on our water resources and health– a case of new delhi, india	Oral	ICWM-WMPL-11
207	Reshmi Das	A look into automatized waste sorting technologies and its use in municipal solid waste segregation	Oral	ICWM-WMPL-12

### GENERATION, COLLECTION, STORAGE AND TRANSPORTATION OF SOLID WASTE (GCSTS)

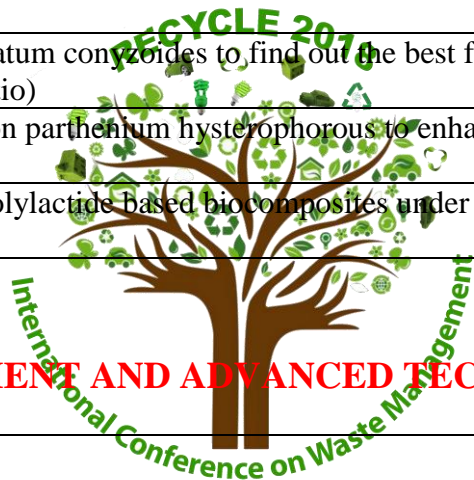
Subm ission No.	Author Name	Title of the abstract	Presentation	Recycle name
173	Manjussa N. Sarnobbat	Municipal solid waste management in kolhapur city, current practices and future recommendation	Oral	ICWM-GCSTS-01
167	Dinesh Raj Manandhar	Challenges and issues of waste management in landfill in municipalities of south asian countries	Oral	ICWM-GCSTS-02
188	Rajeev Pratap Singh	Appraisal of municipal solid waste (msw) characteristics and its management in varanasi city, india	Oral	ICWM-GCSTS-03
275	Pervez Alam	A study on the landfill leachate and its impact on ground water quality of gazipur area, new delhi, india	Oral	ICWM-GCSTS-04

### BIOLOGICAL TREATMENT AND ENERGY PRODUCTION (BTEP)

<b>Abstract Submission No.</b>	<b>Author Name</b>	<b>Title of the abstract</b>	<b>Presentation</b>	<b>Recycle name</b>
17	Shrihari S	Management of temple solid waste in india by vermicomposting using eisenia fetida	Oral	ICWM-BTEP-01
50	Dr. Bikram Basak	Biohydrogen production by dark fermentation of vegetable waste and cheese whey	Oral	ICWM-BTEP-02
52	Goldy Shah	Optimization of pressure swing adsorption based biogas upgrading technology	Oral	ICWM-BTEP-03
59	Shivali	Utilization of black carbon as an adsorbent for hydrogen sulfide removal from biogas	Oral	ICWM-BTEP-04
72	Pranav Bhardwaj	Performance of laboratory scale forced aeration composting for food waste	Oral	ICWM-BTEP-05
121	Sagarika Panigrahi	Enhancement of anaerobic digestion process by thermal pretreatment	Oral	ICWM-BTEP-06
123	Vijay	Bioelectricity generation from kitchen waste in a low cost earthenware microbial fuel cell	Oral	ICWM-BTEP-07
137	Adiba Fatima	Biohydrogen production through dark fermentation of food wastes by anaerobic sludge mixed microbial consortium.	Oral	ICWM-BTEP-08
141	Mrs. Ambika Arkatkar	Effect of enrichment treatment on electron transfer mechanism of mfc inoculum	Oral	ICWM-BTEP-09
143	Dibya Jyoti Borah	Experimental study on anaerobic digestion of food waste for its biomethane potential	Oral	ICWM-BTEP-10
155	Om Prakash	Performance of dual metal oxide coated anodes for benthic microbial fuel cell reactor for bio-electricity generation	Oral	ICWM-BTEP-11
185	Harry Kaur	Production of multi- hydrolytic enzyme from kitchen waste	Oral	ICWM-BTEP-12
214	Jyoti Kainthola	Improving methane yield via co-digestion of hydrilla verticillata and rice straw and its kinetic analysis	Oral	ICWM-BTEP-13



221	Mohd Shariq	Enhanced solubilization of rice straw by hydrothermal pretreatment for increased yield of methane	Oral	ICWM-BTEP-14
238	Mayur Shirish Jain	Composting physics: degradation process regulating tool for sewage and industrial sludge	Oral	ICWM-BTEP-15
263	Arindam Sinharoy	Bioconversion of carbon monoxide to hydrogen in a moving bed biofilm reactor	Oral	ICWM-BTEP-16
227	Visva Bharati Barua	Microbial pretreatment of water hyacinth for enhanced hydrolysis followed by biogas production	Oral	ICWM-BTEP-17
228	Vidhi Rathore	Co-digestion of water hyacinth and food waste for enhanced biogas production	Oral	ICWM-BTEP-18
229	Arun Sathyan	Anaerobic digestion of ageratum conyzoides to find out the best food to microorganism ratio (f/m ratio)	Oral	ICWM-BTEP-19
230	Biswanath Saha	Effect of electrohydrolysis on parthenum hysterophorous to enhance the biogas production	Oral	ICWM-BTEP-20
187	Naba Kumar Kalita	Biodegradation studies of polylactide based biocomposites under controlled composting conditions	Oral	ICWM-BTEP-21



## THERMAL TREATMENT AND ADVANCED TECHNOLOGIES (TTAT)

Submission No.	Author name	Title of the abstract	Presentation	Recycle name
151	Biswajit Debnath	Kinetic studies on fr-4 type waste printed circuit board (pcb) pyrolysis	Oral	ICWM-TTAT-01
1	Abhyuday Titiksh	Low-cost seismic isolation of structures using scrap automobile tires	Oral	ICWM-TTAT-02
1	Ravi Shankar Mishra	Low-cost seismic isolation of structures using scrap automobile tires	Oral	ICWM-TTAT-02

9	Ranjeet Kumar Mishra	Pyrolysis characteristics and kinetic parameters investigation of non-edible oil containing seeds by thermogravimetric analysis	Oral	ICWM-TTAT-03
10	Ranjeet Kumar Mishra	Thermal pyrolysis and kinetic parameter assessment of waste biomass using tga and semi batch reactor	Oral	ICWM-TTAT-04
102	Jyoti Bhushan Singh	Effect of attrition on silica sand as bed material in circulating fluidized bed system	Oral	ICWM-TTAT-05
124	Roshni Mary Sebastian	Assessment of variation in incinerability of municipal solid waste with recycling	Oral	ICWM-TTAT-06
131	Pradeep Sahu	Pyrolysis and gasification of municipal solid waste (msw)	Oral	ICWM-TTAT-07
270	Geethakarathi	Equilibrium and kinetic studies of reactive dye on mesoporous activated carbon from tannery sludge	Oral	ICWM-TTAT-08

**REDUCE, REUSE, RECYCLE, REMEDIATION CONCEPTS & IMPLEMENTATION STRATEGIES (RCIS)**

Submission No.	Author Name	Title of the abstract	Presentation	Recycle name
153	Karthick K	Recycling of human fecal sludge with municipal solid waste by co-composting methods	Oral	ICWM-RCIS-01
13	Rajesh Roshan Dash	Insight into a waste material based bioreactor for nutrient removal from domestic wastewater	Oral	ICWM-RCIS-07
24	Dr Rajesh Gopinath	Recycling of e-waste ceramics as fine aggregate in rigid pavements and need for policy formulation	Oral	ICWM-RCIS-03
42	Anaya Ghosh	An analysis of bioreactor landfill in developing nations from sustainability perspective	Oral	ICWM-RCIS-04
44	Kundan Samal	Investigation on the effect of planting canna indica in two stage vermifilter for synthetic dairy wastewater treatment	Oral	ICWM-RCIS-05

56	M Poorani	Assessment of ferrous slag with relevance to physico chemical properties	Oral	ICWM-RCIS-06
56	Anjali M. S.	Assessment of ferrous slag with relevance to physico-chemical properties	Oral	ICWM-RCIS-06
61	Umesh Chaudhary	Development of sustainable waste-to-energy technology - an indian perspective projects	Oral	ICWM-RCIS-02
63	Ipsita Saha	Cloud computing based sustainable approach towards e-waste management in india	Oral	ICWM-RCIS-08
69	Ritwija Bhattacharya	Progressive waste solutions through recycling of tea leaves	Oral	ICWM-RCIS-09
70	Shramana Roy Barman	Waste wood filings as a source of activated carbon used for the removal of polyaromatic hydrocarbon from aqueous solutions	Oral	ICWM-RCIS-10
71	Kousik Kr Mondal	Waste hair recycle: wealthy vis-à-vis healthy concerns	Oral	ICWM-RCIS-11
85	Bhubaneswari Bal	Recovery of manganese from low grade ferromanganese ores using bacillus safensis	Oral	ICWM-RCIS-20
116	J. Senophiyah Mary	Biodeterioration of waste printed circuit boards by bioleaching process	Oral	ICWM-RCIS-13
126	Sarvesh Singh	Effects of using kota stone as filler on mechanical properties of asphalt concrete mixes.	Oral	ICWM-RCIS-14
130	Ankur Rajpal	Protracted machine-driven dewatering of sludge under solar drying plant in india	Oral	ICWM-RCIS-15
198	Ninad Oke	Effluent management in a textile industry through recycling – a promising environmental friendly alternative	Oral	ICWM-RCIS-16
199	Charles P Joseph	Bio-mining: an innovative and practical solution for reclamation of open dumpsite	Oral	ICWM-RCIS-17
202	Anjali Narzary	Briquette making using waste biomass and analysis of its properties	Oral	ICWM-RCIS-18
208	Jasvir Singh	Sustainable energy potential from different types of waste products	Oral	ICWM-RCIS-19
212	Abhipsa R Makwana	Recovery of metals from waste printed circuit boards through thiourea leaching followed by adsorption using low cost adsorbent.	Oral	ICWM-RCIS-12

245	Poulami Datta	Characterization and optimization study of biosurfactant produced by microorganisms isolated from formation water of assam oil reservoir	Oral	ICWM-RCIS-21
246	Anup Mule	Novel epoxy and polyurea coatings from recycled rigid pu foam	Oral	ICWM-RCIS-22
248	Renuka Verma	Investigation of cr(vi) removal mechanism by different ion exchange resins	Oral	ICWM-RCIS-23
265	Bahurudeen A	Effective utilization of sugar industry waste ash for sustainable cement production in india	Oral	ICWM-RCIS-24
266	Gowtham S	Building blocks from untreated plastic waste	Oral	ICWM-RCIS-25
266	Balasubramanian Mayandi	Building blocks from untreated plastic waste	Oral	ICWM-RCIS-25
272	Rinu Chacko	A sustainable approach to recycle cfrp waste	Oral	ICWM-RCIS-26
274	Sumit Kumar Das	Potential bio-resources from north-east india as an alternative to customized sanitary napkin	Oral	ICWM-RCIS-27

## WASTEWATER TREATMENT AND REUSE (WTR)

Submission No.	Author Name	Title of the abstract	Presentation	Recycle name
5	Shuchi Gulabani	Influential parameters in photocatalytic degradation of dyes using tio2: an overview	Oral	ICWM-WTR-01
31	Mahashweta Bhowmik	Preparation and characterization of novel magnetic fe-ca-zr metal oxide nano-composite for toxic methyl orange dye adsorption: optimization through response surface methodology	Oral	ICWM-WTR-02
48	Rajneesh Singh	Incorporation of dolochar in vermifilter: an attempt towards maximizing nutrients removal	Oral	ICWM-WTR-03
79	Lalsangzela Sailo	Feasibility of constructed wetland for treatment of domestic wastewater in aizawl, mizoram	Oral	ICWM-WTR-04

88	Hardik P. Gamdha	Comparative study of refractory cod removal from pharmaceutical wastewater	Oral	ICWM-WTR-05
89	Chayan Gupta	Influence of ground granulated blast furnace slag on geotechnical characteristics of jarosite waste	Oral	ICWM-WTR-06
103	Anil Swain	Microwave photolytic treatment of soft drink industry wastewater	Oral	ICWM-WTR-07
106	Hiral Jariwala	Treatment of domestic sewage by sequential batch biofilm reactor(sbbr)	Oral	ICWM-WTR-08
111	Sudeeptha G	Metronidazole and acetaminophen removal in batch bioreactors: effect of mlss, c/n ratio, metronidazole and acetaminophen	Oral	ICWM-WTR-09
112	Supriyo Kumar Mondal	Separation of zinc (ii) through supported liquid membrane using environmentally benign solvent	Oral	ICWM-WTR-10
114	B. Shriram	Removal of 2-chlorophenol using photocatalytic microchannel reactor	Oral	ICWM-WTR-11
132	Ankur Rajpal	Pva gel based integrated fixed film activated sludge process (ifas) for the nitrogen removal in decentralized wastewater treatment	Oral	ICWM-WTR-12
134	Ghazal Srivastava	A study on total nitrogen balance and alkalinity balance in a pva gel based moving bed bio-film reactor.	Oral	ICWM-WTR-13
140	Sachin Kumar Tomar	Impact of low concentration of phenol on aerobic granular sludge	Oral	ICWM-WTR-14
152	Loganath R.	Performance insights of slaughterhouse wastewater treatment by hybrid uasb reactor	Oral	ICWM-WTR-15
154	Vidhyeswari D	An electrochemical approach on removal of dairy wastewater by using modified graphite felt as an anode in microbial fuel cell system	Oral	ICWM-WTR-16
156	Nikunj K. Mendapara	Performance evaluation of sewage treatment plant (stp)- a case study	Oral	ICWM-WTR-17
158	Adnan Qadri	Treatment of real slaughter house waste water by moving bed biofilm reactor	Oral	ICWM-WTR-18
159	Deepika Bhaskar	Assessment of corrosion potential and heavy metal leaching in drinking water supply pipes	Oral	ICWM-WTR-19
161	Jahnvi Kurasam	Effects of disinfection techniques on antibiotic resistant bacteria in the effluents of sewage treatment plant	Oral	ICWM-WTR-20
170	Rakesh	Removal of fluoride from aqueous solution using locally available limestone	Oral	ICWM-WTR-21

	Kumar	and coal-coated with FeCl <sub>3</sub>		
172	Sayanti Ghosh	Treatment of synthetic oily wastewater in aerobic granular reactors (agr)	Oral	ICWM-WTR-22
176	Jiwan Singh	Very fast degradation of phenol and methylene blue by ultrasonically dispersed nano-metallic particles (nmpps)	Oral	ICWM-WTR-23
178	M Mansoor Ahammed	Removal of chromium using water treatment sludge	Oral	ICWM-WTR-24
183	Anuj Goyal	A gis approach for assessment of groundwater quality index in gurugram district, haryana, india	Oral	ICWM-WTR-25
184	Kulbhushan Samal	Development of adsorbent from waste biomass of sapindus mukorossi pericarp for wastewater treatment.	Oral	ICWM-WTR-26
196	Avirup Saha	Physic o-chemical treatment of phenol containing waste water through dynamic adsorption	Oral	ICWM-WTR-27
196	Dr Monal Dutta	Physic o-chemical treatment of phenol containing waste water through dynamic adsorption	Oral	ICWM-WTR-27
200	Akshay Pudke	Electrical energy production from waste water using horizontal and vertical flow constructed wetlands	Oral	ICWM-WTR-28
209	Manoj Kumar Beriya	Extraction of nickel from wastewater using environmentally benign solvent	Oral	ICWM-WTR-29
217	Shree Kamble	Microbial water quality in plumbing system for water distribution	Oral	ICWM-WTR-30
257	Shraddha Shahane	Kinetic study of 4- chlorophenol degradation using bacillus subtilis	Oral	ICWM-WTR-31
257	Naveen Patel	Kinetic study of 4-chlorophenol degradation using bacillus subtilis (mf447841)	Oral	ICWM-WTR-31
262	Raisul Islam	Biological treatment of sewage using aerobic moving bed biofilm reactor (mbbr) technique- a case study	Oral	ICWM-WTR-32
287	Vihangraj V. Kulkarni	Synthesis and application of low cost adsorbent in zn(ii) removal by sulphuric acid treated arecanut husk	Oral	ICWM-WTR-33
281	Helly Mehta	A comparative study on removal of ammonical nitrogen by chemical and biological processes	Oral	ICWM-WTR-34

133	Arvind Kumar Shakya	Removal of multiple oxyanions in a biologically induced attached growth reactor	Oral	ICWM-WTR-35
211	Payal Mazumder	Simultaneous removal of tylosin and p-cresol using composite alginate beads containing recycled mno2 and activated carbon	Oral	ICWM-WTR-36

### LANDFILLING (LF)

Submission No.	Author Name	Title of the abstract	Presentation	Recycle name
14	Binay Kumar Tripathy	Landfill leachate treatment using sonolytic-persulfate oxidation	Oral	ICWM-LF-01
66	Aishwarya Gayatri	An investigation on the use of aluminium dross for stabilisation of expansive soil	Oral	ICWM-LF-02
107	Trupti Lokhande	Integration of gis and ahp, and modelling for landfill site selection for nagpur city	Oral	ICWM-LF-03
219	Bismoy Roy Chowdhury	Influence of bentonite in presence of various concentration of copper solution	Oral	ICWM-LF-04
225	Saswati Ray	Influence of the presence of lead on the behaviour of bentonite	Oral	ICWM-LF-05
242	Amit Vishwakarma	Benchmark parameters of closure of msw landfill in the bhopal city, madhya pradesh, india	Oral	ICWM-LF-06
222	Rahul Dutta	Energy content in the organic fraction of dry municipal solid waste: a case study	Oral	ICWM-LF-07
222	Neeldip Barman	Energy content in the organic fraction of dry municipal solid waste: a case study	Oral	ICWM-LF-07

## ANY OTHER ISSUES (AOI)

Submission No.	Author Name	Title of the abstract	Presentation	Recycle name
3	Puja Rajhans	Construction and demolition wastes as sustainable building material	Oral	ICWM-AOI-01
37	Dr. Tina Basu	Evaluation and assessment of arsenic sorption behavior onto synthetic nano-structured agglomerates of iron (iii)-cerium (iv) bimetal mixed oxide: a chemical approach on a lab-bench scale	Oral	ICWM-AOI-02
55	Shailendra Kumar Singh	Recycling-oriented characterization and recovery potential of rare earth elements in compact and linear fluorescent lamps	Oral	ICWM-AOI-03
60	P.Kp. Aaditya Vignesh	Production of energy by anaerobic digestion of dead fish and sea weeds	Oral	ICWM-AOI-04
109	Punita Tiwari	Bioconversion of temple waste : a rich source of organic wealth	Oral	ICWM-AOI-05
117	Soumi Sarkar	Removal of arsenic using benign liquid membrane for purification of drinking water	Oral	ICWM-AOI-06
142	Pankaj Pardeshi	Polyvinyl chloride and layered double hydroxide composite as a novel substrate material for the fo membrane: thermodynamic study	Oral	ICWM-AOI-07
177	Prerana Chatterjee	Urban design for environmental management and development of indian urban ritualistic spaces: case of hooghly riverfront, kolkata	Oral	ICWM-AOI-8
177	Swati Saha	Urban design for environmental management and development of indian urban ritualistic spaces: case of hooghly riverfront, kolkata	Oral	ICWM-AOI-8
201	Preeti Nain	Identifying issues in assessing environmental implications of solar cells-related wastes	Oral	ICWM-AOI-9
213	Dr. Abhipsa R Makwana	Techno-economical study of electrocoagulation process treating leachate under different connecting modes	Oral	ICWM-AOI-10
215	Puneet Pal Singh Cheema	Status of handling and management of lead acid batteries in five districts of punjab (india)	Oral	ICWM-AOI-11



220	Smitom Swapna Borah	Seasonal and spatial variation of do and bod for assessment of the water quality of brahmaputra river	Oral	ICWM-AOI-12
220	Siddhant Dash	Seasonal and spatial variation of do and bod for assessment of the water quality of brahmaputra river	Oral	ICWM-AOI-12
232	Barun Kanoo	Assessing iron(ii) and fluoride removal efficiency by indigenous household water filter in north guwahati	Oral	ICWM-AOI-13
237	Shinjini Paul Choudhury	Effect of farmyard manure/compost on heavy metal availability in different agricultural soils	Oral	ICWM-AOI-14
244	Gaurav Goel	Paper mill sludge (pms) and degraded municipal solid waste (dmsw) blended fired bricks – a review	Oral	ICWM-AOI-15
247	K.R Singh	Surface water quality analysis of north guwahati	Oral	ICWM-AOI-16
249	Firoza Sultana	Water holding capacities of high carbon ash from paper mills	Oral	ICWM-AOI-17
253	Kartik Bhatt	Daily variation of exposure to carbon monoxide from bonfire using solid fuels in the winter season of rural area of haryana, india	Oral	ICWM-AOI-18
269	Jonali Saikia	Adsorption of lead ions from aqueous solution by functionalized polymer aniline formaldehyde condensate coated on various support materials	Oral	ICWM-AOI-19
278	Ayush Ransingh	Development of location suitability index for waste-to-energy plant by mcdm & ann techniques	Oral	ICWM-AOI-20
278	Sumantra Chaudhuri	Development of location suitability index for waste-to-energy plant by mcdm & ann techniques	Oral	ICWM-AOI-20
279	Nayan Jyoti Khound	Removal of fluoride from aqueous medium by using novel adsorbents developed from plant biomass	Oral	ICWM-AOI-21
280	Manobala. T	Recombinant deinococcus radiodurans r1 biofilm and its implications in uranium (vi) bioremediation	Oral	ICWM-AOI-22

## *RECYCLE - 2018 (Registered Participants for ORAL Presentation)*

Abstract no.	Author name	Title of the abstract	Presenta tion
1	Abhyuday titiksh	Low-cost seismic isolation of structures using scrap automobile tires	Oral
	Ravi shankar mishra		
3	Puja rajhans	Construction and demolition wastes as sustainable building material	Oral
4	Amar kumar das	Effective utilization of kitchen waste for producing biogas by anaerobic co-digestion process	Oral
5	Shuchi	Influential parameters in photocatalytic degradation of dyes using tio <sub>2</sub> : an overview	Oral
8	Prof S P sarmah	Allocation of bins in urban waste collection system	Oral
9	Ranjeet kumar mishra	Pyrolysis characteristics and kinetic parameters investigation of non-edible oil containing seeds by thermogravimetric analysis	Oral
10	Ranjeet kumar mishra	Thermal pyrolysis and kinetic parameter assessment of waste biomass using tga and semi batch reactor	Oral
13	Rajesh roshan dash	Insight into a waste material based bioreactor for nutrient removal from domestic wastewater	Oral
14	Binay kumar tripathy	Landfill leachate treatment using sonolytic-persulfate oxidation	Oral
17	Prof. Shrihari s	Management of temple solid waste in india by management of temple solid waste in india by vermicomposting using eisenia fetida	Oral
23	Pankaj pathak	Adsorption Characteristics of Contaminant in Bentonite Buffer	Oral

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24	Dr Rajesh gopinath	Recycling of e-waste ceramics as fine aggregate in rigid pavements and need for policy formulation	Oral
31	Mahashweta bhowmik	Preparation and characterization of novel magnetic fe-ca-zr metal oxide nano-composite for toxic methyl orange dye adsorption: optimization through response surface methodology	Oral
36	Bhagyashree patil Ankita rathor	Social and policy study for municipal solid waste management planning model for small towns in maharashtra : case of mowad	Oral
37	Dr. Tina basu	Evaluation and assessment of arsenic sorption behavior onto synthetic nano-structured agglomerates of iron (iii)-cerium (iv) bimetal mixed oxide: a chemical approach on a lab-bench scale	Oral
42	Anaya ghosh	An analysis of bioreactor landfill in developing nations from sustainability perspective	Oral
44	Kundan samal	Investigation on the effect of planting canna indica in two stage vermifilter for synthetic dairy wastewater treatment	Oral
48	Rajneesh singh	Incorporation of dolochar in vermifilter: an attempt towards maximizing nutrients removal	Oral
50	Dr. Bikram basak	Biohydrogen production by dark fermentation of vegetable waste and cheese whey	Oral
52	Goldy shah	Optimization of pressure swing adsorption based biogas upgrading technology	Oral
55	Shailendra kumar singh	Recycling-oriented characterization and recovery potential of	Oral

		rare earth elements in compact and linear fluorescent lamps	
56	Anjali m. S. M poorani	Assessment of ferrous slag with relevance to physico chemical properties	Oral
58	Hansal suthar Ankita rathor	Design of mswm plan using waste forecasting and sanitary landfill assessment & design	Oral
59	Shivali	Utilization of black carbon as an adsorbent for hydrogen sulfide removal from biogas	Oral
60	P.kp. Aaditya vignesh	Production of energy by anaerobic digestion of dead fish and sea weeds	Oral
61	Umesh chaudhary	Development of sustainable waste-to-energy technology - an indian perspective projects	Oral
63	Ipsita saha	Cloud computing based sustainable approach towards e-waste management in India	Oral
66	Aishwarya gayatri	An investigation on the use of aluminium dross for stabilisation of expansive soil	Oral
69	Ritwija bhattacharya	Progressive waste solutions through recycling of tea leaves	Oral
70	Shramana roy barman	Waste wood filings as a source of activated carbon used for the removal of polyaromatic hydrocarbon from aqueous solutions	Oral
71	Kousik kr mondal	Waste hair recycle: wealthy vis-à-vis healthy concerns	Oral
72	Pranav bhardwaj	Performance of laboratory scale forced aeration composting for food waste stabilization	Oral
79	Dr Lalsangzela sailo	Feasibility of constructed wetland for treatment of domestic wastewater in aizawl, mizoram	Oral
81	Sopun borah	Heavy metal leaching behavior and characterization of	Oral

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85	Bhubaneswari bal	Recovery of manganese from low grade ferromanganese ores using bacillus safensis	Oral
88	Hardik p. Gamdha	Comparative study of refractory cod removal from pharmaceutical wastewater	Oral
89	Chayan gupta	Influence of ground granulated blast furnace slag on geotechnical characteristics of jarosite waste	Oral
102	Jyoti bhushan singh	Effect of attrition on silica sand as bed material in circulating fluidized bed system	Oral
103	Anil swain	Microwave photolytic treatment of soft drink industry wastewater	Oral
106	Hiral jariwala	Treatment of domestic sewage by sequential batch biofilm reactor(sbbf)	Oral
107	Trupti lokhande	Integration of gis and ahp, anp modelling for landfill site selection for nagpur city	Oral
109	Punita tiwari	Bioconversion of temple waste, a rich source of organic wealth	Oral
111	Sudeeptha g	Metronidazole and acetaminophen removal in batch bioreactors, effect of m:ss, c/n ratio, metronidazole and acetaminophen	Oral
112	Supriyo kumar mondal	Separation of zinc (ii) through supported liquid membrane using environmentally benign solvent	Oral
114	B. Shriram	Removal of 2-chlorophenol using photocatalytic microchannel reactor	Oral
116	J. Senophiyah mary	Biodeterioration of waste printed circuit boards by bioleaching process	Oral
117	Soumi sarkar	Removal of arsenic using benign liquid membrane for	Oral

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121	Sagarika panigrahi	Enhancement of anaerobic digestion process by thermal pretreatment	Oral
123	Manaswini behera	Bioelectricity generation from kitchen waste in a low cost earthenware microbial fuel cell	Oral
124	Roshni mary sebastian	Assessment of variation in incinerability of municipal solid waste with recycling	Oral
126	Sarvesh singh	Effects of using kota stone as filler on mechanical properties of asphalt concrete mixes.	Oral
127	Gaurang asthana	Experimental investigation of waste glass powder as filler in asphalt concrete mixes.	Oral
130	Ankur rajpal	Protracted machine-driven dewatering of sludge under solar drying plant in india	Oral
131	Pradeep sahu	Pyrolysis and gasification of municipal solid waste (msw)	Oral
132	Ankur rajpal	Pva gel based integrated fixed film activated sludge process (ifas) for the nitrogen removal in decentralized wastewater treatment.	Oral
133	Arvind Kumar Shakya	Removal of multiple oxyanions in a biologically induced attached growth reactor	Oral
134	Ghazal srivastava	A study on total nitrogen balance and alkalinity balance in a pva gel based moving bed bio-film reactor.	Oral
137	Adiba fatima	Biohydrogen production through dark fermentation of food wastes by anaerobic sludge mixed microbial consortium.	Oral
140	Sachin kumar tomar	Impact of low concentration of phenol on aerobic granular	Oral

		sludge	
141	Mrs. Ambika arkatkar	Effect of enrichment treatment on electron transfer mechanism of mfc inoculum	Oral
142	Pankaj pardeshi	Polyvinyl chloride and layered double hydroxide composite as a novel substrate material for the fo membrane: thermodynamic study	Oral
143	Dibya jyoti borah	Experimental study on anaerobic digestion of food waste for its biomethane potential	Oral
151	Biswajit debnath	Kinetic studies on fr-4 type waste printed circuit board (pcb) pyrolysis	Oral
152	Loganath r.	Performance insights of slaughterhouse wastewater treatment by hybrid uasb reactor	Oral
153	Karthick k	Recycling of human faecal sludge with municipal solid waste by co-composting methods	Oral
154	Vidhyeswari d	An electrochemical approach on removal of dairy wastewater by using modified graphite felt as an anode in microbial fuel cell system	Oral
155	Om prakash	Performance of dual metal oxide coated anodes for benthic microbial fuel cell reactor for bio-electricity generation	Oral
156	Nikunj k. Mendapara	Performance evaluation of sewage treatment plant (stp)- a case study	Oral
158	Adnan Qadri	Treatment of real slaughterhouse wastewater by Moving Bed Biofilm Reactor	Oral
159	Deepika bhaskar	Assessment of corrosion potential and heavy metal leaching in drinking water supply pipes	Oral
161	Jahnvi kurasam	Effects of disinfection techniques on antibiotic resistant	Oral

		bacteria in the effluents of sewage treatment plant	
164	Dr mrityunjoy mahato	A focused review on waste plastic conversion into carbon materials	Oral
167	Dinesh raj manandhar	Challenges and issues of waste management in landfill in municipalities of south asian countries	Oral
169	Madhu lisha pattanaik	Moisture susceptibility of open graded friction course mixes with moisture susceptibility of open graded friction course mixes with industrial waste	Oral
170	Rakesh kumar	Removal of fluoride from aqueous solution using locally available limestone and coal-coated with $FeCl_3$	Oral
172	Sayanti ghosh	Treatment of synthetic oily wastewater in aerobic granular reactors (agr)	Oral
173	Manjusha n. Sarnobbat	Municipal solid waste management in kolhapur city, current practices and future recommendation	Oral
176	Jiwan singh	Very fast degradation of phenol and methylene blue by ultrasonically dispersed nano-metallic particles (nmpps)	Oral
177	Prerana chatterjee Swati saha	Urban design for environmental management and development of indian urban ritualistic spaces: case of hooghly riverfront, kolkata	Oral
178	M mansoor ahammed	Removal of chromium using water treatment sludge	Oral
179	Lekshmi b	Significance of the persistence of micro-pollutants in treated wastewaters and surface waters in india	Oral
183	Anuj goyal	A gis approach for assessment of groundwater quality index in gurugram district, haryana, india	Oral



184	Kulbhushan samal	Development of adsorbent from waste biomass of sapindus mukorossi pericarp for wastewater treatment.	Oral
185	Harry kaur	Production of multi- hydrolytic enzyme from kitchen waste	Oral
188	Rajeev pratap singh	Appraisal of municipal solid waste (msw) characteristics and its management in varanasi city, india	Oral
196	Avirup saha Dr monal dutta	Physic o-chemical treatment of phenol containing waste water through dynamic adsorption	Oral
197	Bini samal	Open dumping of waste and its impact on our water resources and health– a case of new delhi, india	Oral
198	Ninad oke	Effluent management in a textile industry through recycling – a promising environmental friendly alternative	Oral
199	Charles p joseph	Bio-mining: an innovative and practical solution for reclamation of open dumpsite	Oral
200	Akshay pudke	Electrical energy production from wastewater using horizontal and vertical flow constructed wetlands	Oral
201	Preeti nain	Identifying issues in assessing environmental implications of solar cells-related wastes	Oral
202	Anjali narzary	Briquette making using waste biomass and analysis of its properties	Oral
207	Reshmi das	A look into automatized waste sorting technologies and its use in municipal solid waste segregation	Oral
208	Jasvir singh	Sustainable energy potential from different types of waste products	Oral
209	Manoj kumar beriya	Extraction of nickel from wastewater using environmentally benign solvent	Oral
212	Dr. Abhipsa r makwana	Recovery of metals from waste printed circuit boards through	Oral

		thiourea leaching followed by adsorption using low cost adsorbent.	
213	Dr. Abhipsa r makwana	Techno-economical study of electrocoagulation process treating leachate under different connecting modes	Oral
214	Jyoti kainthola	Improving methane yield via co-digestion of hydrilla verticillata and rice straw and its kinetic analysis	Oral
215	Puneet pal singh cheema	Status of handling and management of lead acid batteries in five districts of punjab (india)	Oral
217	Shree kamble	Microbial water quality in plumbing system for water distribution	Oral
219	Bismoy roy chowdhury	Influence of bentonite in presence of various concentration of copper solution	Oral
220	Smitom swapna borah	Seasonal and spatial variation of do and bod for assessment of the water quality of brahmaputra river	Oral
220	Siddhant dash	Seasonal and spatial variation of do and bod for assessment of the water quality of brahmaputra river	Oral and attending conference
221	Mohd shariq	Enhanced solubilization of rice straw by hydrothermal pretreatment for increased yield of methane	Oral
222	Neeldip barman Rahul dutta	Energy content in the organic fraction of dry municipal solid waste: a case study	Oral
225	Saswati ray	Influence of the presence of lead on the behaviour of bentonite	Oral
227	Visva Bharati Barua	Biochemical Methane Potential (BMP) Test of Water Hyacinth:	Oral

		Effect of F/M ratio and Pretreatment	
228	Vidhi Rathore	Co-digestion of water hyacinth and food waste for enhanced biogas production	Oral
229	Arun Sathyan	Anaerobic digestion of Ageratum conyzoides to find out the best food to microorganism ratio (F/M ratio)	Oral
230	Biswanath Saha	Effect of electrohydrolysis on Parthenium hysterophorous to enhance the biogas production	Oral
232	Barun kanoo	Assessing iron(ii) and fluoride removal efficiency by indigenous household water filter in north guwahati	Oral
237	Shinjini paul choudhury	Effect of farmyard manure/compost on heavy metal availability in different agricultural soils	Oral
238	Mayur Shirish Jain	Composting physics: degradation process regulating tool for sewage and industrial sludge	Oral
242	Amit vishwakarma	Benchmark parameters of closure of msw landfill in the bhopal city, madhya pradesh, india	Oral
244	Gaurav Goel	Paper mill sludge (pms) and degraded municipal solid waste (dmsw) blended fired bricks – a review	Oral
245	Poulami Datta	Characterization and optimization study of biosurfactant produced by microorganisms isolated from formation water of assam oil reservoir	Oral
246	Anup Mule	Novel epoxy and polyurea coatings from recycled rigid pu foam	Oral
247	Kunwar Raghvendra Singh	Surface water quality analysis of north guwahati	Oral
248	Renuka Verma	Investigation of cr(vi) removal mechanism by different ion exchange resins	Oral
249	Firoza sultana	Water holding capacities of high carbon ash from paper mills	Oral

253	Kartik bhatt	Daily variation of exposure to carbon monoxide from bonfire using solid fuels in the winter season of rural area of haryana, india	Oral
257	Shraddha shahane Naveen patel	Kinetic study of 4-chlorophenol degradation using bacillus subtilis (mf447841)	Oral
262	Raisul Islam	Biological Treatment of Sewage using Aerobic Moving Bed Biofilm Reactor (MBBR) Technique - A Case Study	Oral
263	Arindam sinharoy	Bioconversion of carbon monoxide to hydrogen in a moving bed biofilm reactor	Oral
265	Dr. Bahurudeen a	Effective utilization of sugar industry waste ash for sustainable cement production in india	Oral
266	Gowtham s Balasubramanian mayandi	Building blocks from untreated plastic waste	Oral
269	Jonali saikia	Adsorption of lead ions from aqueous solution by functionalized polymer aniline formaldehyde condensate coated on various support materials	Oral
270	Dr.a.geethakarathi	Equilibrium and kinetic studies of reactive dye on mesoporous activated carbon from tannery sludge	Oral
272	Rinu chacko	A sustainable approach to recycle cfrp waste	Oral
274	Sumit kumar das	Potential bio-resources from north-east india as an alternative to customized sanitary napkin	Oral
275	Pervez alam	A study on the landfill leachate and its impact on ground water quality of gazipur area, new delhi, india	Oral
278	Ayush ransingh	Development of location suitability index for waste-to-energy	Oral

	Sumantra chaudhuri	plant by mcdm & ann techniques	
279	Nayan jyoti khound	Removal of fluoride from aqueous medium by using novel adsorbents developed from plant biomass	Oral
280	Manobala. T	Recombinant deinococcus radiodurans r1 biofilm and its implications in uranium (vi) bioremediation	Oral
281	Helly mehta	A comparative study on removal of ammonical nitrogen by chemical and biological processes	Oral
287	Vihangraj V Kulkarni	Synthesis and application of low cost adsorbent in Zn(II) removal by sulphuric acid treated arecanut husk	Oral

*RECYCLE - 2018 (Registered Participants for POSTER Presentation)*



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26	aniket banerjee	Removal of congo red dye using calcium alginate beads impregnated with ground shell powder.	Poster
28	Gitartha kalita	Using agricultural waste as sustainable building material	Poster
32	Shubham dakua	Synthesis and characterization of a novel magnetic fe-mn-zr	Poster

		metal oxide nano-composite adsorbent and its environmental application	
83	Markandeya	Characterization and design of two stage batch adsorber using non-linear modeling for the removal of fluoride onto chitosan cenospheres nanocomposite	Poster
91	Mayank mrinal	Comparision of green house gases emissions from different sewage treatment plants of delhi	Poster
97	Hasan rameez	seasonal variations in human health impacts of pm10, pm2.5 and no2 emissions from a solid waste disposal facility at turbhe, navi mumbai	Poster
98	Yumnam gyanendra	Hydrogeochemical assessment of groundwater of valley districts of manipur, india	Poster
101	Abijith SR Prasanth Kumar R	Experimental investigation of bubble deck concrete by solid waste	Poster
104	Piyush Tayal	Strategy for solid waste management at nit calicut	Poster
113	Dhrubajyoti nath Bulbuli bismith Uddipan nath	Sustainable Approach towards Inclusive Growth through proper utilization of waste material of Coconut and Areca nut .	Poster
119	Parul Kapoor	Decentralized approach to solid waste management in chitranjan park, new delhi	Poster
122	Jinat Aktar	Green synthesis of iron nanoparticles and its characterization	Poster
139	Hunlang Biam	Effective utilisation of polymer-modified asphalt in flexible pavement	Poster
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150	Bhaskar Kalita	Sustainable agricultural waste utilization promising rural entrepreneurship in North East India	Poster
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162	Jayakrishnan u	Optimization of feed to microbe ration for acidification of rice mill effluent	Poster
163	Philip bernstein saynik	A comparative study on the chemical storage characteristics of bio-oil obtained by the pyrolysis of invasive weeds Prosopis Juliflora and Arundo Donax.	Poster
186	Anubhav chatterjee Swati saha	An approach towards a sustainable solid waste management solution for a metro city	Poster
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204	Swati sharma	Production of biosurfactant and degradation of crude oil by agrobacterium fabrum slaj731	Poster
206	Shweta singh	A perspective on constructed wetlands: passive energy system for wastewater treatment	Poster
211	Payal Mazumder	Simultaneous removal of Tylosin and p-Cresol using composite alginate beads containing recycled MnO <sub>2</sub> and Activated Carbon	Poster
210	Srimonti dutta	A study on the variation of metal concentration of soil considering sloped and flat-terrain tea estates of assam	Poster
216	Arnab ghosh	Recycling of waste pet bottles for the synthesis of sn(ii)-mof	Poster
218	Chakka Nagendra Subrahmanyam	Effect of Heavy Metals on Composting process-A review	Poster

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231	Siddhartha paul	Effect of biochar amendment on chemical and physical properties during rotary drum composting of water hyacinth	Poster
233	Sunil kumar sihag	Amendment of biochar on laterite and alluvial soil: effects on sorption and nutritional properties.	Poster
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## *RECYCLE - 2018 (Registered Participants for ATTENDING)*

1. Abhinayaa N
2. Hemant khandagale

