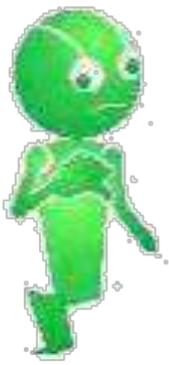
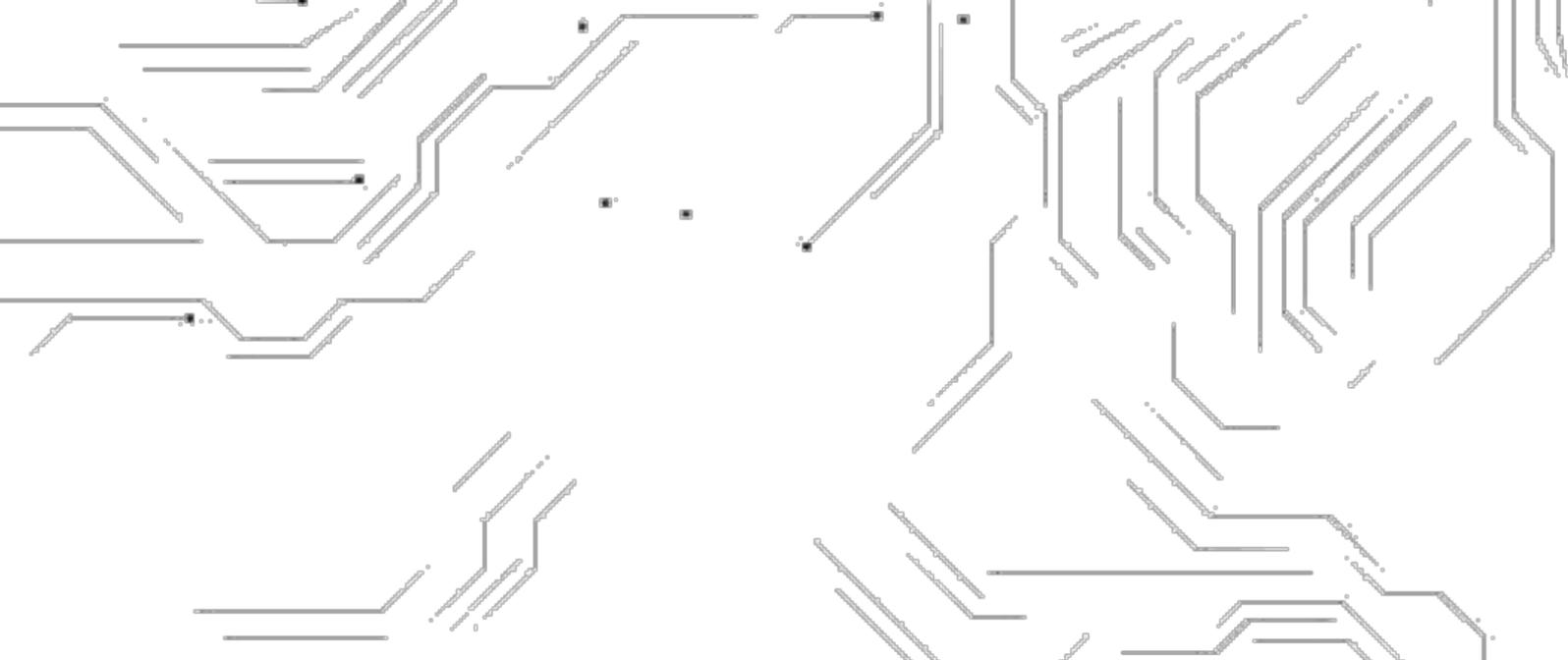


“AWARENESS PROGRAM ON ENVIRONMENTAL HAZARDS OF E-WASTE”

REPORT PREPARED
AND SUBMITTED BY

NASSCOM FOUNDATION





REPORT ON
**“AWARENESS
PROGRAM ON
ENVIRONMENTAL
HAZARDS OF
E-WASTE”**

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NASSCOM
FOUNDATION

ITAIT

CEAMA

NASSCOM FOUNDATION

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Glossary of Terms

The Following Glossary of terms have been taken from Section 3 (1) of Chapter 1 E-Waste (Management) Rules, 2016.

Act: The Environment (Protection) Act, 1986 (29 of 1986)

Authorisation: Permission for generation, handling, collection, reception, storage, transportation, refurbishing, dismantling, recycling, treatment and disposal of e-waste, granted to manufacturer, dismantler, refurbisher and recycler.

Bulk Consumer: Bulk users of electrical and electronic equipment such as Central Government or State Government Departments, public sector undertakings, banks, educational institutions, multinational organisations, international agencies, partnership and public or private companies that are registered under the Factories Act, 1948 (63 of 1948) and the Companies Act, 2013 (18 of 2013) and healthcare facilities which have turnover of more than one crore or have more than twenty employees.

Central Pollution Control Board: Central Pollution Control Board constituted under sub-section (1) of section 3 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974).

Collection Centre: A centre or a collection point or both established by producer individually or as association jointly to collect e-waste for channelizing the e-waste to recycler and play such role as indicated in the authorisation for Extended Producer Responsibility granted to the producer and having facilities as per the guidelines of Central Pollution Control Board, including the collection centre established by the dismantler or refurbisher or recycler which should be a part of their authorisation issued by the State Pollution Control Board where the facility exists.

Component: One of the parts of a subassembly or assembly of which a manufactured product is made up and into which it may be resolved and includes an accessory or attachment to another component

Consumables: An item, which participates in or is required for a manufacturing process or for functioning of the electrical and electronic equipment and may or may not form part of end-product. Items, which are substantially or totally consumed during a manufacturing process, shall be deemed to be consumables.

Consumer: Any person using electrical and electronic equipment excluding the bulk consumers.

Channelization: To direct the path for movement of e-wastes from collection onwards to authorised dismantler or recycler. In case of fluorescent and other mercury containing lamps, where recyclers are not available, this means path for movement from collection centre to Treatment, Storage and Disposal Facility.

Dealer: Any individual or firm that buys or receives electrical and electronic equipment as listed in Schedule I of these rules and their components or consumables or parts or spares from producers for sale.

Deposit refund scheme: A scheme whereby the producer charges an additional amount as a deposit at the time of sale of the electrical and electronic equipment and returns it to the consumer along with interest when the end-of life electrical and electronic equipment is returned.

Deposit refund scheme: A scheme whereby the producer charges an additional amount as a deposit at the time of sale of the electrical and electronic equipment and returns it to the consumer along with interest when the end-of life electrical and electronic equipment is returned.

Dismantler: Any person or organisation engaged in dismantling of used electrical and electronic equipment into their components and having facilities 3 as per the guidelines of Central Pollution Control Board and having authorisation from concerned State Pollution Control Board.

Disposal: Any operation which does not lead to recycling, recovery or reuse and includes physico-chemical or biological treatment, incineration and deposition in secured landfill.

End-of-life of the product: The time when the product is intended to be discarded by the user.

Environmentally sound management of e-waste: Taking all steps required to ensure that e-waste is managed in a manner which shall protect health and environment against any adverse effects, which may result from such e-waste; (p) 'electrical and electronic equipment' means equipment which are dependent on electric current or electromagnetic field in order to become functional.

E-Retailer: An individual or company or business entity that uses an electronic network such as internet, telephone, to sell its goods.

E-Waste: Electrical and electronic equipment, whole or in part discarded as waste by the consumer or bulk consumer as well as rejects from manufacturing, refurbishment and repair processes.

E-waste Exchange: An independent market instrument offering assistance or independent electronic systems offering services for sale and purchase of e-waste generated from end-of-life electrical and electronic equipment between agencies or organisations authorised under the e-waste management rules.

Extended Producer Responsibility: Responsibility of any producer of electrical or electronic equipment, for channelization of e-waste to ensure environmentally sound management of such waste. Extended Producer Responsibility may comprise of implementing take back system or setting up of collection centres or both and having agreed arrangements with authorised dismantler or recycler either individually or collectively through a Producer Responsibility Organisation recognised by producer or producers in their Extended Producer Responsibility - Authorisation.

Extended Producer Responsibility: Authorisation: Permission given by Central Pollution Control Board to a producer, for managing Extended Producer Responsibility with implementation plans and targets outlined in such authorisation including detail of Producer Responsibility Organisation and e-waste exchange, if applicable.

Extended Producer Responsibility Plan: A plan submitted by a producer to Central Pollution Control Board, at the time of applying for Extended Producer Responsibility - Authorisation in which a producer shall provide details of e-waste channelization system for targeted collection including detail of Producer Responsibility Organisation and e-waste exchange, if applicable.

Facility: Any location wherein the process incidental to the collection, reception, storage, segregation, refurbishing, dismantling, recycling, treatment and disposal of e-waste are carried out.

Form: A form appended to the e-waste management rules 2016.

Historical e-waste: E-Waste generated from electrical and electronic equipment as specified in Schedule I, which was available on the date from which these rules come into force.

Manufacturer: A person or an entity or a company as defined in the Companies Act, 2013 (18 of 2013) or a factory as defined in the Factories Act, 1948 (63 of 1948) or Small and Medium Enterprises as defined in Micro, Small and Medium Enterprises Development Act, 2006 (27 of 2006), which has facilities for manufacture of electrical and electronic equipment

Foreword

As we take giant strides in technological advancements across sectors, we are presented with the unique challenge of rising accumulation of electronic waste (e-waste) across the country. According to a UN report published in 2014, India is the fifth largest generator of e-waste producing 1.7 million tons annually. E-Waste is expected to grow at 21 percent in the coming years. This poses serious environmental and health ramifications. NASSCOM Foundation's BigBridge program has been working towards promoting environmental and socially responsible e-waste management practices for companies. The Foundation through this initiative routes refurbished computers to non-profits.

It was during the 25th Anniversary of NASSCOM - in March 2015 - that the issue of e-waste found a voice with the Honourable Prime Minister Shri Narendra Modi pressing for a national level awareness campaign. The Ministry of Electronics & Information Technology (MeitY) subsequently launched an awareness program on environmental hazards of electronic waste with the key objective of enhancing awareness amongst stakeholders involved in e-waste management in 10 urban areas in its pilot phase.

The project has gone through concrete planning and strategy building to be able to reach out and shape the ecosystem that was envisaged at the beginning of the program. I am pleased to share that NASSCOM Foundation along with CEAMA and MAIT have been able to achieve what it set forth in the pilot phase. I am confident that some of the learnings on ground will steer the course of electronic waste management in the country in the coming years.

NASSCOM along with our implementation partners - NASSCOM Foundation, MAIT and CEAMA would like to thank the Ministry of Electronics & Information Technology (MeitY) for giving an opportunity to collaborate on this ambitious campaign of raising awareness on environmental hazards of e-waste.

Finally, we would like to acknowledge the support from all our city level implementation partners for their contribution to building this report.

Congratulations to the Big Bridge Team at the NASSCOM Foundation, MAIT and CEAMA for showcasing the sensitization activities and their impact in this report.

Best regards,
Chandrashekhar
President , NASSCOM

Background

Rapid growth of the electronic industry and high rate of obsolescence of electronic products leads to generation of huge quantities of electronic waste (e-waste). The recycling of e-waste in non-formal units by unscientific, unhealthy and non-environmental friendly methods is the key challenge in our society. Like other parts of the world, India is also facing serious challenges due to growing generation of e-waste, lack of awareness of the environmental, social and economic aspects, amongst various stakeholders. The channelization of e-waste for proper recycling and establishing a system of accountability in e-waste management would only happen if effective awareness could be established amongst all stakeholders including the consumers, manufactures, recyclers, young generations in school, colleges, government & corporate sector.

Towards this, MeitY in partnership with NASSCOM Foundation, MAIT and CEAMA embarked upon an 'Awareness Programme on Environmental Hazards of Electronic Waste' under the 'Digital India Initiative'.

The campaign aimed to enhance awareness amongst stakeholders involved in e-waste management in 10 urban areas by organizing activities and workshops/seminars for the following stakeholders

The Stakeholders



The Cities

The 10 cities chosen in the Pilot Phase were -

- 01 Bhubaneswar
- 02 Guwahati
- 03 Imphal
- 04 Indore
- 05 Kolkata
- 06 Moradabad
- 07 Panjim
- 08 Patna
- 09 Puducherry
- 10 Ranchi

Objective

The awareness sessions were structured to achieve the following –

01

Raise awareness among different stakeholders on various aspect of e-waste management.

02

Strengthen the existing e-waste management system

03

Address key issues and challenges in e-waste management

04

To promote various opportunities for stakeholders in the e-waste value chain

Project Goals

Activity Type	No. of activities per city, per year	No. of cities	Total No. of activities	Participants per activity average	Toatal Participants trained approx
Workshop	09		95*		18000
Activites/Plays	18	10	180	200	36000
Total	27		275		54000

The table below also gives an approximate number of average target audiences to be outreached under the project:

Target Audience	Total number of participants for 10 cities (approx.)	Actual number of participants across workshops – activities in 10 cities (approx.)
RWAs/Localities	9000	39895
Colleges	12600	19949
School	14400	46599
Dealers	3600	3521
Bulk Consumers	5400	5484
Refubrishers	3600	3357
Manufacturers	1800	1249
Informal Sector	3600	3465
Total	54000	123519

Roll-out plan

In order to ensure a smooth roll-out of the project across the stakeholders, a consultation session was curated with the e-Waste ecosystem in each city. This ensured active engagement of thought leadership at city level to develop city specific strategies. Their inputs shaped the activities and workshops at the city level. The sequence of events planned in the cities included conducting a stakeholder consultation workshops, which would involve the city administration, civil society, local associations, media and key stakeholders who would be able to carry this program after its initiation by the partners.

The stakeholder consultation workshop lead to the appointment of the 'city task force' in each of the cities whose primary task was to monitor the activities and workshops which were being conducted by the partners as well as to ensure that maximum outreach and advocacy were being generated through these activities and workshops.

The project activity was divided into three activity clusters. The illustration below gives an understanding of the roll out plan for the e-waste awareness campaign -



The table below gives tentative assignment of roles and responsibility for each organization different organizations in the project management units

Target Audience	Lead Agency	Supporting Agency
RWAs/Localities	NASSCOM	MAIT & CEAMA
Schools	CEAMA	NASSCOM & MAIT
Colleges	NASSCOM	CEAMA & MAIT
Bulk Consumer (including corporate & Govt. Sectors)	NASSCOM	MAIT & CEAMA
Informal Sector	MAIT	NASSCOM & CEAMA
Dealers	MAIT (IT) & CEAMA (non IT)	NASSCOM
Refurbishers	NASSCOM	MAIT & CEAMA
Manufacturers	MAIT	NASSCOM & CEAMA

Overall achievement

Activity Type	No. of activities	Total participants
Workshop	98	19897
Activites/Plays	331	103622

Target Audience	Target	Actual Achievement	% achieved
RWAs/ Localities	9000	39895	443
Colleges	12600	19949	158
School	14400	46599	324
Dealers	3600	3521	99
Bulk Consumers	5400	5484	102
Refurbishers	3600	3357	93
Manufacturers	1800	1246	69
Informal Sector	3600	3465	96

Detailed city reports articulating the approach and impact follows in the ensuing pages.



CITY REPORTS

Summary

The pilot phase of “Awareness Program on Environment Hazards of Electronic Waste” under the Digital India Initiative in 10 cities was a unique experience. Prior to implementation phase, multi-stakeholder workshops were organized to create a platform for interaction of various stakeholders who play a vital role in e-waste management within each city. The multi-stakeholders workshop had the following outcome:

01

Creation of a city level taskforce for each city

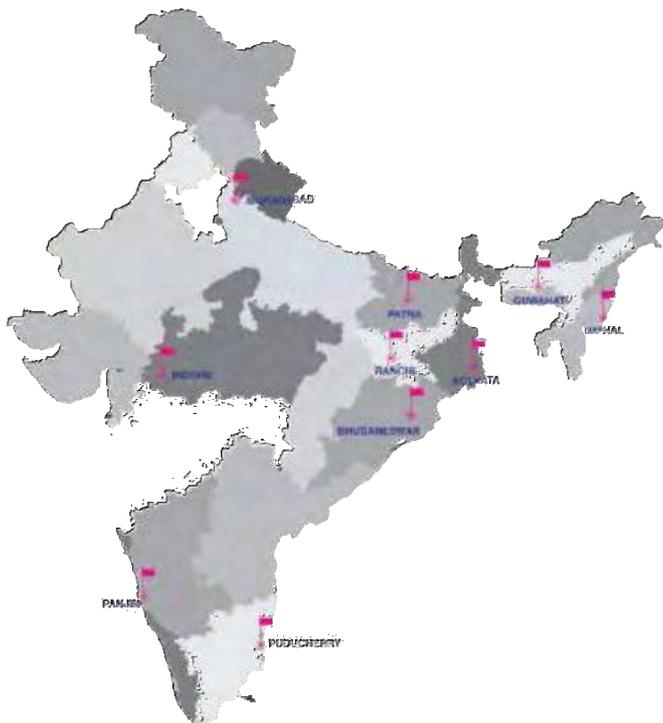
02

Co-construction of a city level development plan for each city

The city level development plan served as a blue print for implementation phase in each city. Besides that, most of the city level implementation partners were identified during the multi-stakeholder workshop or based on the suggestions put forth by the city taskforce. Listed below are the city level implementation partners identified for the project. One of the pre requisites for selection was that the NGOs had to register themselves under the NITI Aayog’s DARPAN.

City	City Level Implementation Partner
Bhubaneswar	Centre for Child and Women Development (CCWD)
Guwahati	Environ
Imphal	Institute of Social Research and Development (ISRD)
Indore	Madhya Pradesh Vigyan Sabha
Kolkata	Society for Direct Initiative for Social and Health Action (DISHA)
Moradabad	Divye Parivaran Evam Gram Vikas Sanstha
Panjim	Communicare Trust
Patna	Institute of Environment and Eco-Development
Puducherry	Avvai village welfare society
Ranchi	Bharatiya Lok Kalyan Sansthan (BLKS)

The campaign was well received in all the cities with substantial participation from all the stakeholder categories. The city taskforce also played a major role in guiding the city level implementation partners during the implementation phase and participated in the activities and workshop.



BHUBANESWAR
Centre for Women and Child Development

IMPHAL
Institute of Social Research and Development (ISRD)

KOLKATA
DISHA

PANJIM
Communicare Trust

PUDUCHERRY
Avvai village welfare society

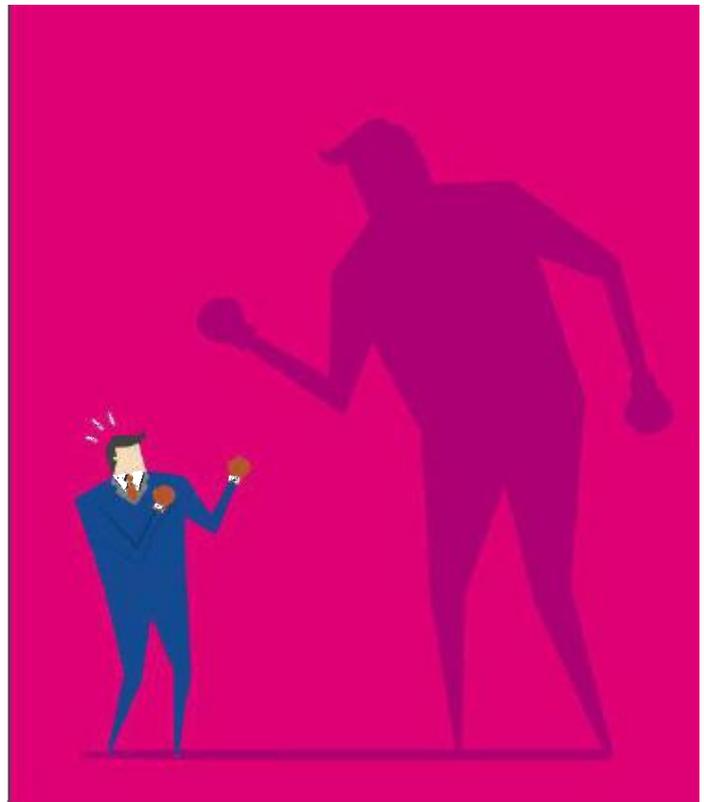
INDORE
M.P Vigyan

GUWAHATI
Enviren

MORADABAD
Divya Parivaram
Evam Gram Vikas
Samithi

PATNA
Institute of
Environment an
Eco-Development

RANCHI
Bharat Lok Kalyani
Samathan



Challenges

The implementation phase also faced some challenges. Listed below are some of the common challenges faced during implementation across the ten cities.

01

Political and Environmental barriers:

Elections across UP, Bihar, Goa, Assam, Manipur delayed the programs, as it was difficult to gather participants and ensure the participation of Govt. officials. Political upheaval in Pondicherry, Bihar affected the program delivery, as key govt. officials were not available for the program. Also, extreme weather conditions like floods in Manipur, Assam, Bihar and other cities as well extreme heat wave in cities like Moradabad hindered the execution of workshop and activities in open places.

02

Awareness among stakeholders: Of the eight stakeholders identified under the project, a key challenge encountered was the limited knowledge of the e-waste rules amongst them. Furthermore, disposers of e-waste did not know about the process as well as the hazards of e-waste when its gets recycled in the informal sector. Furthermore, the marginal revenue earned by the informal sector through their current techniques is higher than the margins earned through environmentally sound recycling techniques. This serves as a deterrent for the informal sector to shift towards formal recycling methods.

03

Infrastructure: The Eastern region of the country had six cities where the project was implemented. None of these six cities have a developed infrastructure for collecting and recycling e-waste. Other than Kolkata (which has a couple of registered recyclers) the e-waste is primarily handled by the informal sector. The stakeholders have expressed their grievances during the project about the lack of proper collection and disposal infrastructure for environmentally safe disposal of e-waste. It is also true that it would be not economically viable to set up recycling units in every city. However, a hub and spoke model of collection and disposal can be followed where collection hubs can be established in each city connected to a recycling unit in a major city, close to them. This is likely to result in expansion of the collection base as well drive economy of scale and financial viability for recycling plants.

04

Policy: The policy level landscape has skipped the informal sector, which is the key to collection and recycling of e-waste. They are also the key to unsafe recycling of e-waste leading to health and environmental hazards. With the new rules now allowing collectors to seek authorisation only from producers/manufacturers under EPR, it has restricted the formalisation of the informal sector. Policy guidelines should be inclusive of such organisations and individuals so that the awareness project can produce success stories on environmentally safe disposal of e-waste.

Case in point – DISHA working in Kolkata are facing difficulties in trying to engage with producers/manufacturers in seeking authorisation to collect e-waste on their behalf.

05

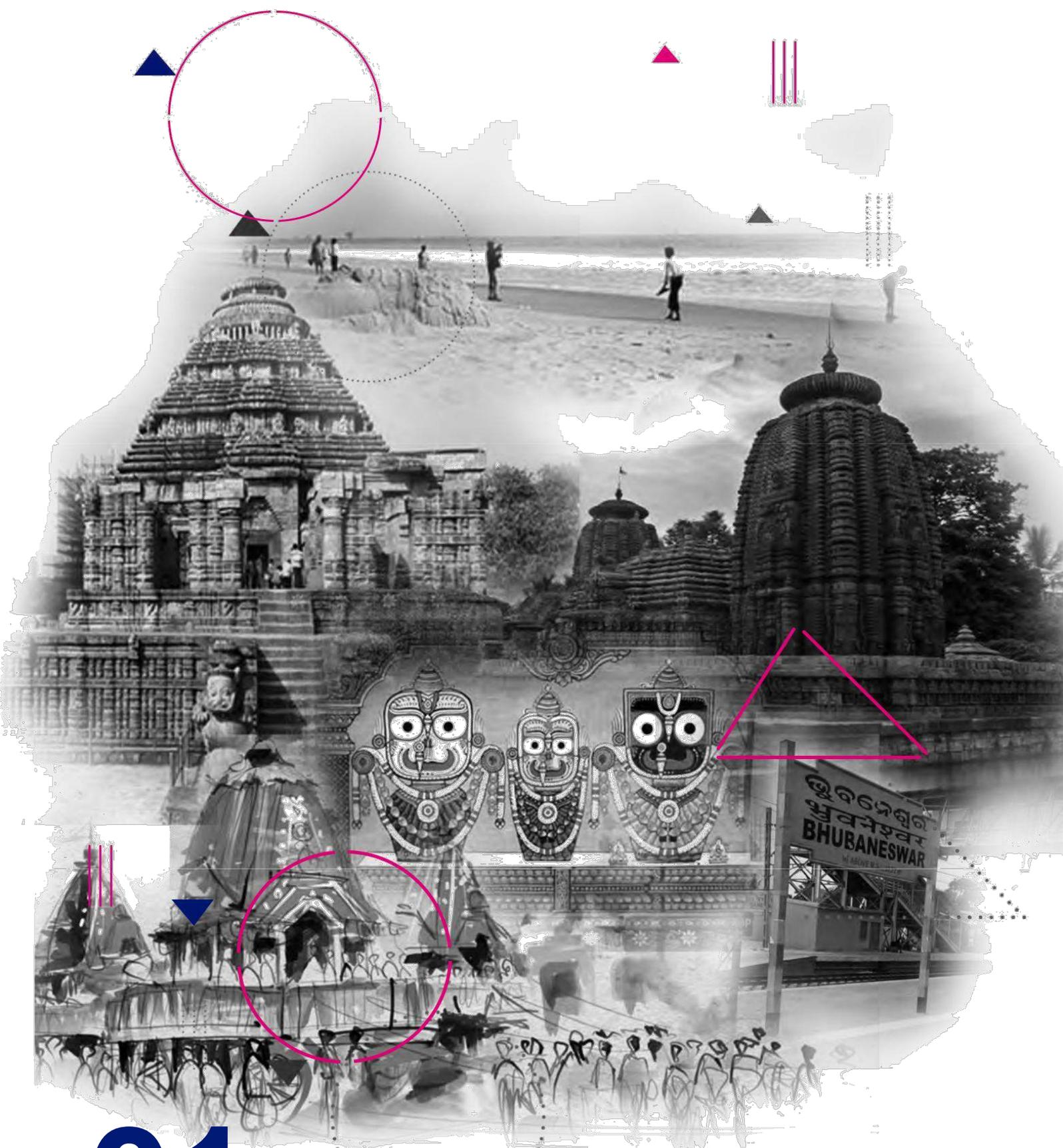
Implementation bottlenecks: Coordination issues between stakeholders have been the bane as far as the delay in the implementation process is concerned. The awareness project would be better served, if at the time of initiation, a nodal person is appointed at the state level with whom implementing agencies can contact and seek guidance and support for the smooth rolling out of this projects.



Recommendations

Based on our experience in the pilot phase, we have come out with the following recommendations -

- 01** The campaign should target cities, which are currently under the smart city list. City selection should take into account Tier 2 cities, which have a fair mix of industries, and cities that have scored high on the Swachh Bharat index and have existing e-waste collection infrastructure.
- 02** A more continuous and deeper engagement with clearly defined outcomes is essential to ensure that we are able to develop an ecosystem for e-waste management after the sensitization. Select cities from the Pilot project may be considered for handholding and follow up activities could be organized in those cities to ensure creation of sustainable e-waste management system in the city (for those on an upward learning curve)
- 03** Partners should take up the responsibility of the city, across stakeholder groups.
- 04** Schools- Colleges could be merged with Bulk Consumers.
- 05** Integration of informal partners needs to be articulated and prioritized as they are the crucial to sustaining an effective e-waste management system.



01

Bhubaneswar

Organization Name
Center for Child and Women Development (CCWD)

Summary Table of Activities and Workshops

Sr.No	Stakeholders	No. of workshops held	No. of activities held	Participation covered
01	Colleges	1	6	7206
02	Dealers		2	700
03	Bulk consumer	2	1	317
04	School		5	5000
05	Manufacturer		2	550
06	Refurbishers	1	1	910
07	RWA's		5	13500

Brief Summary of the program

The above table provides a summary of workshops and activities carried out in Bhubaneswar. The activities ranged from presentation on e-waste and screening of movies in schools and college on e-waste to face to face interaction with refurbishers and dealers.

Following were the educational institutions covered under the project :-



Schools

- 01. Mancheswar U.P.U.G School - Prasanti Vihar
- IRC Village Government high school
- 03. Capital high school
- 04. UNIT-1 Government High School,



Colleges

- 01. Maharshi Women's College
- 02. Raja Madhusudan Dev College
- 03. Abbey West Services College
- 04. Rajadhani College
- 05. BJB (Autonomous) college



RWAs

- 01. E-Waste Roadshow during the BhubWaneswar Patha Utsav
- 02. E-Waste Rally on Rahgiri Day



Bulk Consumer

- 01. Different branches of PNB, IOB, BOI, SBI, Vijaya Bank
- 02. Power Grid Corporation
- 03. MITS Schools of Bio- technology
- 04. KIMS, Infosys
- 05. Airtel Ltd
- 06. CRPC

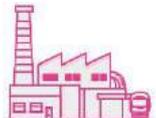


Refurbisher

A door to door sensitization program along with a e-waste rally was organised in Bapuji Nagar, the biggest electronic market in Bhubaneswar.



A workshop was organized for Refurbishers on July 13th 2017. The workshop aimed at raising awareness among refurbishers on responsible e-waste handling. CCWD also demonstrated the use of personal protective equipment (PPE) during the workshop. PPEs were also distributed among participants during the workshop.



Manufacturer

Two e-waste rallies were organized in Bapuji Nagar, Bhubaneswar to sensitize the manufacturers on the environmental hazards of e-waste.

Prominent Guests

The awareness campaign had many prominent govt. officials and experts from the industry participated in various programs and steered conversations around e-waste and the eco-system in the city. Some of the guests are listed below:

Dr. D.K Behera Senior Environment Scientist, Odisha State Pollution Control Board.

Shri. Srimant Mishra, Deputy commissioner of Bhubaneswar Municipal Corporation.

Shri. Bhabani Shankar Chaini, Additional commissioner of Bhubaneswar Authority.

Shri. Debidutta Biswal, IFS Member Secretary, Odisha State Pollution Control Board.

Mr. Shankar Sharma, Director, Green Vortex Waste Management Pvt. Ltd.

06. Mr. D.M Prakash Singh, Vodafone, Infocity.

07. Dr. Subashis Mahapatra, CET, BBSR.

Shri. Samir Kumar Swain, Regional manager facilities, Infosys.

Mr. N. Panigrahi, Director Siddha Development Research and Consultancy PVT LTD



Impact

The campaign was well received by all the stakeholders. Some of the impact areas are listed as follows-



01



A pledge was taken by bulk consumers during the workshop that they are committed to align the current e-waste management practices with the E-Waste Management and Handling Rules 2016 and maintain all necessary documentation.



02

A database of 800 refurbishers and 700 dealers has been created through a survey and door to door sensitization campaign under this project.



E-WASTE AWARENESS RALLY DURING RAHGIRI DAY



DR. CHATTERJEE DISCUSSING ABOUT THE PROGRAM DURING THE MULTISTAKEHOLDER WORKSHOP IN BHUBANESWAR



E-WASTE PROGRAM FOR COLLEGES



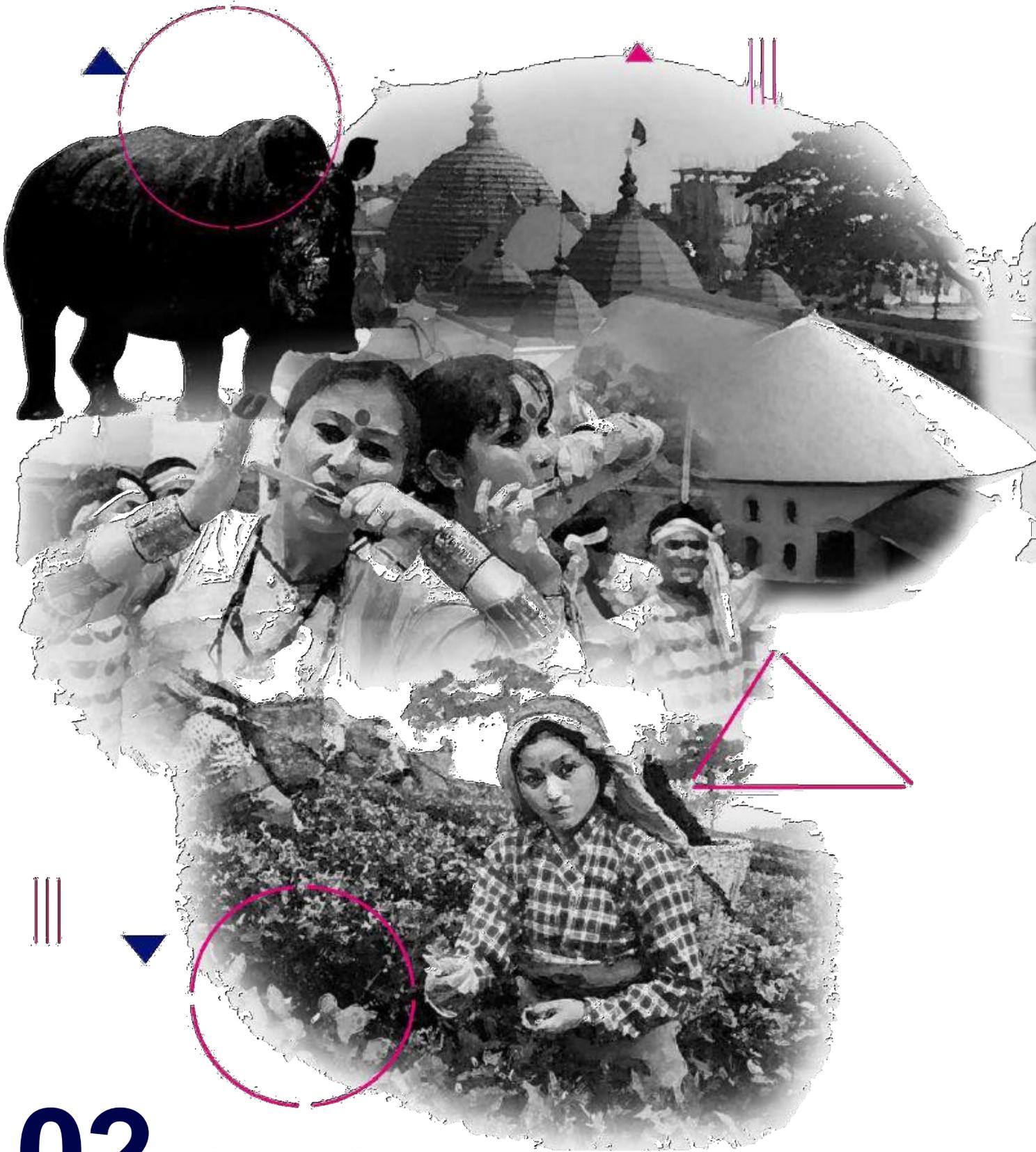
E-WASTE AWARENESS PROGRAM FOR BULK CONSUMERS



E-WASTE AWARENESS PROGRAM FOR BULK CONSUMERS



E-WASTE PROGRAM FOR RWAS



02 Guwahati

Organization Name
ENVIRON

Summary Table of Activities and Workshops

Sr.No	Stakeholders	Target No.	Actual No. of workshops held	Actual No. of activities held	No. Participants
01	RWA's	2		2	1808
02	Schools	5		5	1270
03	Colleges	6	1	5	716
04	Dealers	2		2	998
05	Bulk Consumers	3	2	1	246
06	Manufacturers	2	0	2	88
07	Informal Sector				
08	Refurbishers	2	1	1	393

Brief summary of the program

The above table gives a summary of workshops and activities in Guwahati. The activities ranged from e-waste rally in RWAs to PowerPoint Presentation. The technical workshops were organised for stakeholders like bulk consumer, refurbishers who play an important part in e-waste management. The program was well received by stakeholders and was attended senior officials like Sri Keshab Mahanta Honourable Minister of Information Technology to the Govt. of Assam. As it was difficult to gather certain stakeholders like dealers and refurbishers under one roof, a door to door campaign was followed to sensitize them. The refurbishers contacted during the sensitization program were then invited to the technical workshop. The awareness campaign led to the Honble Minister Shri Keshav Mahanta asking ENVIRON and AMTRON to submit a proposal for setting up a e-waste recycling plant in Guwahati

List of stakeholders who were covered under the program



Schools

- 01.Assam Jatiya Bidyalay
- 02.Delhi Public School
- 03.Holy Child School
- 04.Royal Global School



Colleges

- 01.Assam Engineering College
- 02.University of Science and Technology Meghalaya, Guwahati
- 03.Dispur College
- 04.Gauhati Commerce College
- 05.Handique Girls College
- 06.Arya Vidyapeeth College, Guwahati



RWAs

- 01.Geeta Nagar
- 02.Dispur Super Market, Guwahati



Bulk Consumer

- 01.AMTRON
- 02.Sankara Nethralaya
- 03.Indian Institute of Entrepreneurship (IIE)



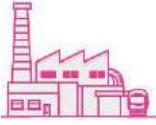
Refurbisher

Covered through survey and door to door sensitization program followed by a workshop 23rd July, 2017.



Dealers

Covered through survey and door to door sensitization program.



Manufacturers

- 01.Samsung India PVT LTD
- 02.LG India PVT LTD

Impact

The campaign was well received by all the stakeholders. Some of the impact areas are listed as follows-



AWARENESS PROGRAM FOR MANUFACTURERS



Prominent Guests

The awareness campaign had many prominent govt. officials and experts from the industry who participated in various programs and steered conversations around e-waste and the eco-system in the city. Some of the guests are listed below:

Sri Keshab Mahanta Honourable Minister of Information Technology to the Govt. of Assam

Sri Ritu Baran Sarmah Vice-Chairman AMTRON

Mr. H.N.Pathak, additional manager, Amtron, Guwahati

Mr. Jahid Ahmed, senior consultant. State E-mission Team, IT department, Government of Assam

Dr. Jnanshree Bora, former principal(IC), Arya Vidyapeeth College Guwahati and Faculty, USTM, Meghalaya

Mr. Manoj Kumar Das, Director, IIE, Guwahati. inaugurated the workshop

DR. Shantanu Dutta, Scientist D, Central Pollution Control Board, Shillong, Meghalaya

Mr. Achintya Kr. Baruah. Associate Faculty member, IIE, Guwahati

01



AMTRON and ENVIRON were asked to submit a proposal for e-waste recycling unit in Guwahati by the Honorable Minister of Science and Technology, Shri Keshab Mahanta



DOOR TO DOOR SENSITIZATION CAMPAIGN

02



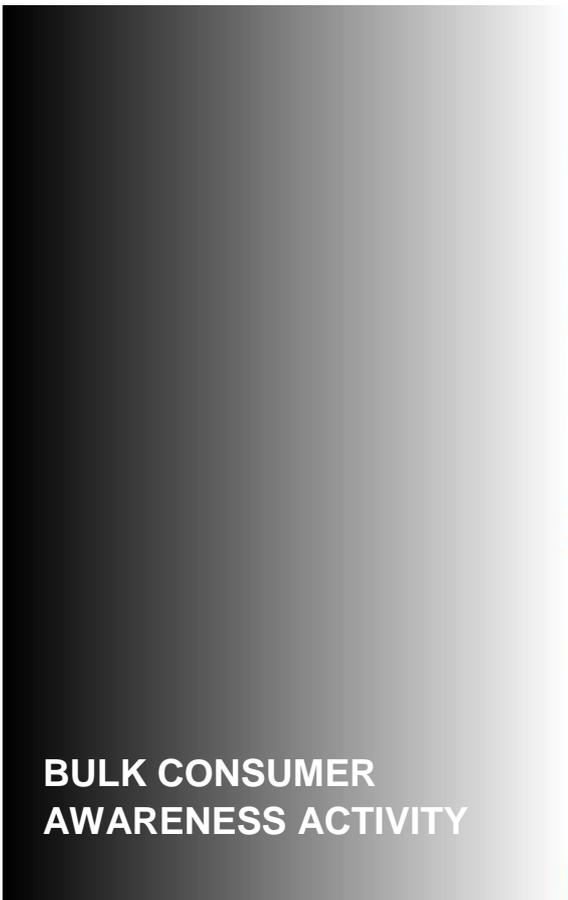
A database of refurbishers and dealers has been created through a survey and door to door sensitization campaign under this project.



**AWARENESS ACTIVITY
IN SCHOOLS**



**STREET PLAY
IN RWAs**



**BULK CONSUMER
AWARENESS ACTIVITY**



**BULK CONSUMER
AWARENESS ACTIVITY**





AWARENESS WORKSHOP FOR BULK CONSUMERS



AWARENESS WORKSHOP FOR BULK CONSUMERS



AWARENESS WORKSHOP FOR SCHOOLS



AWARENESS WORKSHOP FOR COLLEGES

WORKSHOP ON E-WASTE COLLECTION MANAGEMENT



AWARENESS WORKSHOP FOR COLLEGES



AWARENESS WORKSHOP FOR BULK CONSUMERS



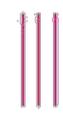
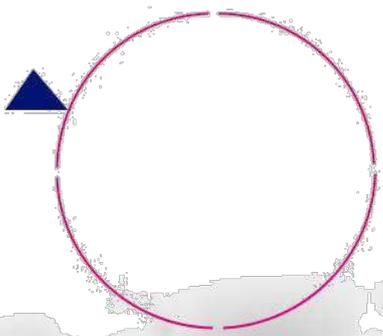
DOOR TO DOOR SENSITIZATION ACTIVITY FOR REFURBISHERS



AWARENESS PROGRAM FOR SCHOOLS



AWARENESS PROGRAM FOR SCHOOLS



03 Imphal

Organization Name
Institute of Social Development and Research (ISRD)



Summary Table of Activities and Workshops

Sr.No	Stakeholders	Target	Actual No. of workshops held	Actual No. of activities held	No. Participation
01	RWA's		0	2	286
02	Schools		0	5	2610
03	Colleges		1	5	1614
04	Dealers		0	2	458
05	Bulk Consumers		2	1	526
06	Manufacturers		0	2	335
07	Informal Sectors		0	0	0
08	Refurbishers		1	1	329

Brief Summary of the program

The above tables give a summary of workshops and activities in Imphal. The activities ranged from Mix Media to bulk consumer and refurbishers performances for colleges to PowerPoint Presentation. The technical workshops were organised for stakeholders like bulk consumer, refurbishers who play an important part in e-waste management. The officials from NIELIT and Manipur Pollution Control Board were invited to take the sessions on environmental hazards of e-waste and responsibility of different stakeholders as per new Rules. The program was well received by stakeholders and supported by various government bodies like Imphal Municipal Corporation, Manipur Pollution Control Board and Democratic Student Alliance of Manipur, the largest student body in Manipur. As it was difficult to gather certain stakeholders like dealers and refurbishers under one roof, a door to door campaign was followed to sensitize them. The refurbishers contacted during the sensitization program were then invited to the technical workshop where personal protective equipments were distributed to refurbishers.

List of stakeholders who were covered under the program



Schools

01. Bethel English School,
02. Meera Public School
03. Praja High School
04. Standard Robert Higher Secondary School
05. Wangkhei High School



Colleges

01. National Service Scheme Unit-I & II Imphal College
02. CC College DM college
03. Democratic Students Alliance of Manipur



Refurbishers working in the following routes were covered through face to face interaction.

01.Moirangkhom to Canchipur

02.Keishampat to Nambol

03.Wahengleikei to Tera

04.Uripok to Lamsang

05.North AOC to Lamlong Keithel

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Program was followed by a workshop on e-waste management rules 2016 and roles and responsibilities of refurbishers. Use of personal protection equipment was demonstrated by ISRD. PPEs were distributed among refurbishers by L Lokeshower , Honorable Mayor Imphal Municipal Corporation.



L Lokeshower ,Honorable Mayor Imphal Municipal Corporation.

S Jugeshor Singh Project Engineer, NIELIT

Ch Premkanta Environmental Engineer Manipur Pollution Control Board

Dr Bijen Development Officer Environment and Ecology Wing, Government of Manipur

Mr Bankjit, Environmental Engineer Manipur Pollution Control Board

Impact



01



02



**STUDENTS LEARNING
RESPONSIBLE RECYCLING**



**AWARENESS PROGRAM
FOR SCHOOLS**





AWARENESS PROGRAM FOR RWAs

**LEARN
SHARE
DO
RECYCLE**



04

Organization Name

Madhya Pradesh Vigyan Sabha

Summary Table of Activities and Workshops

Sr.No	Stakeholders	Target No.	Actual No. of workshops held	Actual No. of activities held	No. of participants
01	Schools	2000	07+05*	36	2805
02	Colleges	2000	17	48	2106
03	Dealers	200	5	20	196
04	RWA's	350	18	55	2362
05	Bulk Consumer	200	5	15	457
06	Refurbishers	350	6	17	284
07	Informal Sector	200	9	22	244
08	Manufacturers	200	5	12	132

Brief Summary of the program

The above table, gives a summary of workshops and activities in Indore. The activities ranged from puppet shows for schools to PowerPoint Presentation. A unique activity was the IEC bus which went to different schools, colleges and RWAs to sensitize people on E-waste. The technical workshops were organised for stakeholders like bulk consumer, refurbishers who play an important part in e-waste management. The support of local NGOs was also leveraged to reach out to stakeholders like RWAs. Due to repeated requests from the informal sector, a special program was organised. An additional workshop was organised for NGOs who work with the informal where the technical sessions were taken by Dr. Fasal Hussain, Director, Unique Recycling. The program was well received by stakeholders. Awareness program and camps were organised for refurbishers, dealers and manufacturers.

List of stakeholders who were covered under the campaign



Schools

01. Kendriya Vidyalaya No.2,
02. Karnataka Vidya Niketan,
03. Sarafa Vidya Niketan,
04. Kendriya Vidyalaya No.1, Residency Club Road,
05. ILVA HSC,
06. Navlakha, Choutram International School
07. Sarfa Kanya Vidhya Niketan.



Colleges

01. Indore School of Social Work
02. Regional Girls Industrial Training Institute, Indore
03. I.K. College 2/2 Near Greater Kailas Hospital, Palacia, Indore
04. College Program Yuva Kousal Vikas Kendra
05. Dental College, Indore
06. Devi Ahilya Vishwavidhyalay, Indore
07. Prestige Institute of Engineering, Indore

08.Choithram college of paramedical sciences, Indore

09.Choithram college of Nursing, Indore

10.SJHS Gujarati Homeopathy

Innovative College of Commerce and Science

11.B.Ed. College, Devi Ahilya

Vishwavidhyalay, Indore

12.Nursing College, Kanadia, Indore

13.Program in SAFE College, Kanodia Road, Indore (II program)

14.Program in Index Nursing College, Nemawar Road, Indore

15.Program in Govt. Inter College, Ambedkar Nagar, Indore

16. Parikh Manilal Baldevdas

Gujarati Science College, Nasia Road, Indore

SKRP Gujarati Homeopathy Medical College, Hospital and Research Centre, Vijay Nagar Indore



RWA's

01.Anup Nagar

02.Badala Mohalla

03.Mamta Colony

04.Shri Nagar

05.Rahul Gandhi Nagar

06.Rishi Nagar

07.Indore Haat- Rozgar Mela

08.Shiv Nagar, Saver Road, Indore

09.Maa Bhagawati Nagar, Inodore

10.Anand Nagar, near Rajendra Nagar, Indore

11.Near Pollution Control Board, Indore

12.Play Gorund, Manavata Nagar, Kanodia Road, Indore

13.Khajrana area, Indore

14.Vijayshri Nagar Residential Welfare Association, Aerodrome Road, Indore

15.Program near Khajrana Mandir & MY Hospital. etc

15.Vijayvargiya Nagar,

16.Marymata Chouraha, Severa Road, Indore

Marymata Chouraha, Severa Road, Indore

Gokul Colony, Indore



Bulk Consumers

01.Vishal Mega Mart Indore Date:

02.Anand Nagar, near Rajendra Nagar, Indore

03.Govt. Girls College, Nehru Nagar

04.Government Girls High School, Nehru Nagar Road, BRC Centre, Indore.

05.Shri Joshi Ji Tejaji Middle School, Tejai Nagar, Khadwa road



Refurbishers

A workshop was held on CGO Bhawan, Khetriya Suchana Prasar Karyalay, Prasar Bharti on 8th June 2017.



Dealers

An awareness program was organised with the support of M.P Computer & Telecom Association.



Manufacturers

01.MAP Embedded solutions

02.AAVEG Technology Pvt. Ltd

03.NIKITA ELECTRONICS



Informal Sector

Informal Sector – E-waste handlers
24, Udyog Nagar, Indore.

Prominent Guests

The awareness campaign had many prominent govt. officials and experts from the industry participated in various programs and steered conversations around e-waste and the eco-system in the city. Some of the guests are listed below:

Shri.Ashish Saxena, President M.P Computer & Telecom Association (MPTCA)

Mr. R.K.Gupta, Regional Director, M.P Pollution Control Board

Hemant Sharma Chief Engineer, M.P Pollution Control Board

Rajendra Singh, Director, Children's Science Centre, Indore

Mr. Madhukar Pawar, Asst. Director, Khetriya Suchana Prasar Karyalaya, Prasar Bharti

Dr. Fasal Hussain, Director, Unique Recycling

Mr. Mukesh Sharma, General Manager, Vishal Mega Mart

Chandrakala Malviya, Corporator, ward no 76, Bicholi

Mr. Dinesh Kankere, SPCO, Pradhan Mantri Kaushal Vikas Yojana



03

NSS and NCC units have requested for inclusion of e-waste management into their activity calendar

Impact

The campaign was well received by all the stakeholders. Some of the impact areas are listed as follows-



01

Informal sector groups were liked to authorized recycler to ensure safe disposal of e-waste.



02

Informal Sector have requested for a mechanism for integration into the formal e-waste management system and asked for help in setting up collection centre.



**AWARENESS PROGRAM
FOR SCHOOL CHILDREN AT
MP POLLUTION CONTROL
BOARD REGIONAL OFFICE**



“E-WASTE EXPRESS” AT SCHOOL

**WORKSHOP
SURVEYS
PRESENTATIONS**



**AWARENESS PROGRAM
FOR SCHOOL CHILDREN AT
MP POLLUTION CONTROL
BOARD REGIONAL OFFICE**



**AWARENESS PROGRAM
FOR COLLEGES**



**AWARENESS WORKSHOP
FOR COLLEGES**



**AWARENESS PROGRAM
FOR COLLEGES**





05 Kolkata

Organization Name
DISHA



Summary Table of Activities and Workshops

Sr.No	Stakeholders	No. of workshops	No. of activities	Number of Participants in workshop (Policy level interactions)	Number of Participants in Activity (Awareness Programmes)
01	Schools		11		1350
02	Colleges	2	1	160	40
03	Bulk Consumer & individual consumers	2	3	127	500
04	Dealers		2		50
05	Refurbisher		Continued Interactions		376
06	Manufacturer		2		4
07	RWA's		5		7500

Brief Summary of the program

The above table provides a summary of workshops and activities done in Kolkata. The activities ranged from presentation on e-waste and screening of movies in schools and college to e-waste to face to face interaction with refurbishers and dealers. Top educational Institutions like Indian Institution of Engineering, Science & Technology and Ravindra Bharati University collaborated by hosted workshops for stakeholders under the campaign. E-Mall, the biggest electronic market in Kolkata and Public Places like Sealdah and Bidhan Nagar Railway Station were covered. The scope of bulk consumer workshop was also expanded to cover other stakeholders like the refurbishers, regulators, environmental NGOs to gain a holistic understanding of the e-waste management ecosystem in the city of Kolkata. Apart from the above mentioned activity, an e-waste awareness program was organized at NASSCOM National Product Conclave where the team of NASSCOM Foundation interacted with senior officials of IT companies. Around 1000 people were sensitized through the program.

DISHA also shared a report capturing the challenges faced by the Informal Sector and presented their recommendations keeping in mind the provision of the new E-Waste Management Rules (Attached in Annexure1)

List of stakeholders who participated in the campaign



Schools

- Muraripukur Govt. Sponsored Higher Secondary School
 - Scottish Church Collegiate School
 - Kendriya Vidyalaya, Ballygunj (Army School)
 - Christopher Road Govt. Sponsored HS School for Girls
 - Indumati Sava Griha
 - The Park Institution
 - Labanhrad Vidyapith
 - Maniktala Government High School.



Colleges

Rabindra Bharati University

Khudiram Bose Central College in Hedua,
North Kolkata.

B P Poddar Institute of Management &
Technology.

Indian Institute of Engineering, Science &
Technology (IEST)



RWAs/Localities & Public Places

Bidhannagar Railway Station

Sealdah Station

Beleghata

Samadrita Housing Association in Bidhan Nagar

Marshelin Housing Association in Bidhan Nagar

Avishikta Housing Association in Bidhan Nagar

Meghnath Saha Abasan Housing Association in
Bidhan Nagar

E-Mall in Esplanade

Sealdah Flyover



Dealers

1. E-Mall Esplanade



Refurbishers

Face to Face interaction at major electronics
markets across Kolkata

Prominent Guests

The awareness campaign had many prominent
govt. officials and experts from the industry
participated in various programs and steered
conversations around e-waste and the eco-system
in the city. Some of the guests are listed below:

Ms. Monalisa Dutta, Toxics Link

Dr. Kalyan Rudra, Chairperson, West Bengal
Pollution Control Board

Subrata Ghosh, Chief Engineer, Solid Waste
Management, West Bengal Pollution Control Board

Prof. Punarbasu Chaudhuri, Head, Department
of Environmental Science, University of Calcutta

Mr. Sisir Mondal, Engineer, Waste Management
Cell, West Bengal Pollution Control Board

Dr. Saikat Maitra, Vice-Chairman Maulana Abul
Kalam Azad University of Technology

Prof. Arunabha Mazumder, Jadavpur University and
Ex-Director of All India Institute of Hygiene and
Public Health (AIHP)

Mr. Arun Kanti Biswas, Ex-Regional Director,
National Environment Engineering Research Institute
(NEERI)

Nandan Mall CEO Hulla Dek Recycling

Gopaditya Das, Tata Consultancy Services

Pradip Das, Secretary, Howrah Vigyan
Chetna Samannaya

Jayanta Basu, EnGIO

Outcome

The e-waste campaign was well received by the different
stakeholders in Kolkata. More than 10000 people were
covered directly through the campaign. The campaign
focused on the environmental - health hazards of e-waste
and safe disposal of e-waste. During the campaign, most
of the stakeholders pointed out that they didn't have
access to adequate number of collection centres in their
areas to dispose e-waste. It was felt that a strong network
of collection centre could serve as the backbone for an
effective e-waste collection mechanism in the city.

Impact

The campaign was well received by all the stakeholders. Some of the impact areas are listed as follows-



01

Eco-clubs in five schools have decided to set up e-waste collection point in their schools and requested DISHA to collect e-waste from their schools



02

A database of refurbishers and dealers has been created through a survey and door to door sensitization campaign under this project. The survey has also highlighted the current mode of disposal followed by refurbishers and challenges faced by them.



03

West Bengal Pollution Control Board has also requested DISHA to conduct a multi-stakeholder workshop to understand the perspective on e-waste management from different stakeholders.



CHAIRPERSON WEST BENGAL POLLUTION CONTROL BOARD



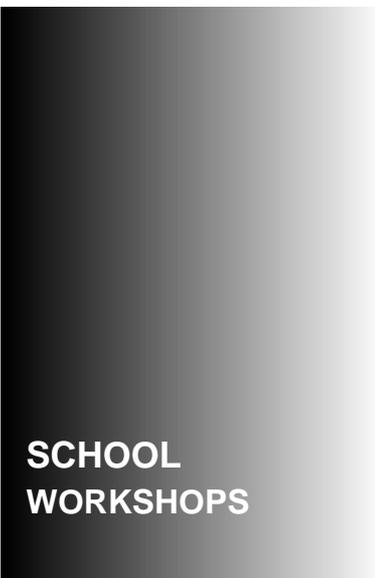
TECHNICAL SESSION ON ROLE OF INFORMAL SECTOR IN E-WASTE MANAGEMENT



AWARENESS WORKSHOP IN KENDRIYA VIDYALAYA



CHRISTOPHER ROAD GOVT. SPONSORED HS SCHOOL - AWARENESS CAMPAIGN



SCHOOL WORKSHOPS



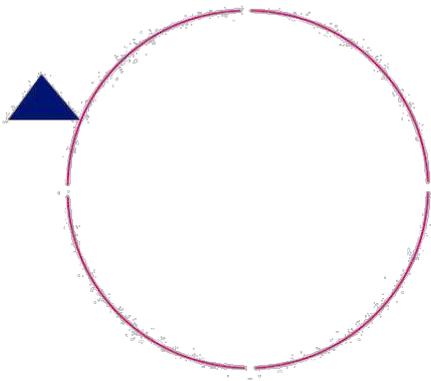
E-WASTE AWARENESS CAMPAIGN AT A PUBLIC PLACE



E-WASTE AWARENESS CAMPAIGN AT A PUBLIC PLACE



PUBLIC CAMPAIGN IN HOUSING ESTATES



06 Moradabad

Organization Name
Divye Paryavaran Evam Gram Vikas Sanstha



Summary Table of Activities and Workshops

Sr.No	Stakeholders	Target No.	Actual No. of workshops held	Actual No. of activities held	No. of Participants
01	RWAs	03	0	6	439
02	Schools	15	0	8	5886
03	Colleges	15	1	8	1642
04	Dealers	25	0	4	145
05	Bulk Consumer	60	2	5	499
06	Manufacturers & Assemblers	30	0	3	75
07	Refurbishers	60	1	4	153

Brief Summary of the program

The above table provides a summary of activities and workshops done in Moradabad. Moradabad though a medium sized city in Uttar Pradesh is considered to be epicenter of e-waste management in the country as most of the erstwhile brass smelting industries have moved towards e-waste disposal. However, the e-waste disposal and metal extraction is done informally and causes serious environmental and health hazards. Therefore, the focus was on raising awareness on the environmental hazards of e-waste and building a strong case for sound e-waste recycling. The activities in Moradabad ranged from quiz and painting competition on ewaste with different stakeholders to e-waste rallies in public places to garner visibility for the larger audience. Technical workshops were conducted for stakeholders like bulk consumers, dealers which have more critical role to play in the e-waste management system. The programs were well received by stakeholders and received support from the regional officer of Uttar Pradesh Pollution Control Board.

List of stakeholders who participated in the campaign



Schools

- Diya Saraswati Balika Inter College, Moradabad.
- Saraswati Vidya mandir Inter College, Katghar, Moradabad.
- Mahilal Public School, Moradabad.
- S.S.Sai School, Moradabad.
- Saviour's Public School, Civil Lines, Moradabad.
- S.D.M. Inter School, Moradabad.
- R N Inter College, Pilihothi, Moradabad.
- S.S.Sai Academy, Moradabad.
- Parkar Inter College, Rampur road, Near old Bus Stand, Moradabad.
- Amtur's Public School, Prince Road, Moradabad.
- Aryans International School, Moradabad.
- Greenmedows School, Civil Lines, Moradabad.
- Govt. Inter College, Katghar, Moradabad.
- National Modern Inter College, Pital Basti, Moradabad
- Calton High School, Moradabad.

Colleges



Moradabad Institute of Technology
MIT college of Management
Faculty of Pharmacy (MET)
Faculty of Architecture (MET)
Hindu Degree College
Dayanand Arya Kanya Degree College
Wilsonia Degree College
Muslima Girls Degree College
Moradabad Muslim Degree College
R.S.D. Degree College
M.H. Degree College
K.G.K. Degree College
Kothiwal Institute of Technology & Professional
Studies
Teerthankar Mahaveer Institute of Management
& Technology
R.B. Institute of Management Technology



RWAs/Localities/ Public Places

01. TDI City, Moradabad.
Astha Colony, Moradabad.
Keshri Kunj, Moradabad.
Wave Greens, Moradabad.
05. Ramganga Vihar, Phase-II, B-Block, Moradabad



Bulk Consumer

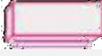
Punjab National Bank, Circle Office
Prathama Bank
Other banking institutions



Refurbishers

01. Face to Face interaction followed by a workshop.

Dealers

Naveen Electronics 
Uma Electronic Institute
Troop Electronics 
Miglani Enterprises
Vishal Electronics
Vishva Sanchar
Stallworth Electroplating Work
Durga Electronics
Bajaj Electronics
Agarwal Electronics
Bagga Electronics
D.V. Electronics
CHM Electronics
Kapoor Lights
Sai Computech
Prem Mobile
Vijay Bajaj Enterprise
Koshal Enterprises
Soni Electronics
P.C. Solutions
Rama Computers
Time Computers
Hitesh Electronics
Views Technology
My Computers

Prominent Guests

The awareness campaign had many prominent govt. officials and experts from the industry participated in various programs and had stirring conversation around e-waste. Some of the guests are listed below:

PNB Chief Manager, Circle Office, Moradabad.

Director, Prathama Bank, Head Office, Moradabad.

Shri Amarjeet Punia Chairman, Academic Council



Outcome

The awareness campaign was received well among all the stakeholders. The pledge to manage e-waste responsibly was taken by most of the stakeholders. It was felt that there was a need for continual engagement with all the stakeholders to streamline the e-waste management process in Moradabad.

Impact

The campaign was well received by all the stakeholders. Some of the impact areas are listed as follows-



AWARENESS PROGRAM FOR COLLEGE STUDENTS



01

Director Moradabad Institute of Technology has pledged to set up e-waste collection point in their campus.



02

Some of the dealers have expressed their interest in setting up e-waste collection centre or e-waste recycling unit in Moradabad during the sensitization activity.



03

A formal e-waste collection and disposal mechanism has been requested by stakeholders.



AWARENESS WORKSHOP FOR BULK CONSUMERS



04

Follow-up workshops have been planned on e-waste workshop for schools and colleges as part of continual engagement.



AWARENESS PROGRAM AT SCHOOL



AWARENESS PROGRAM FOR COLLEGE STUDENTS

E-WASTE RECYCLE AWARENESS PROGRAMME



AWARENESS PROGRAM FOR DEALERS



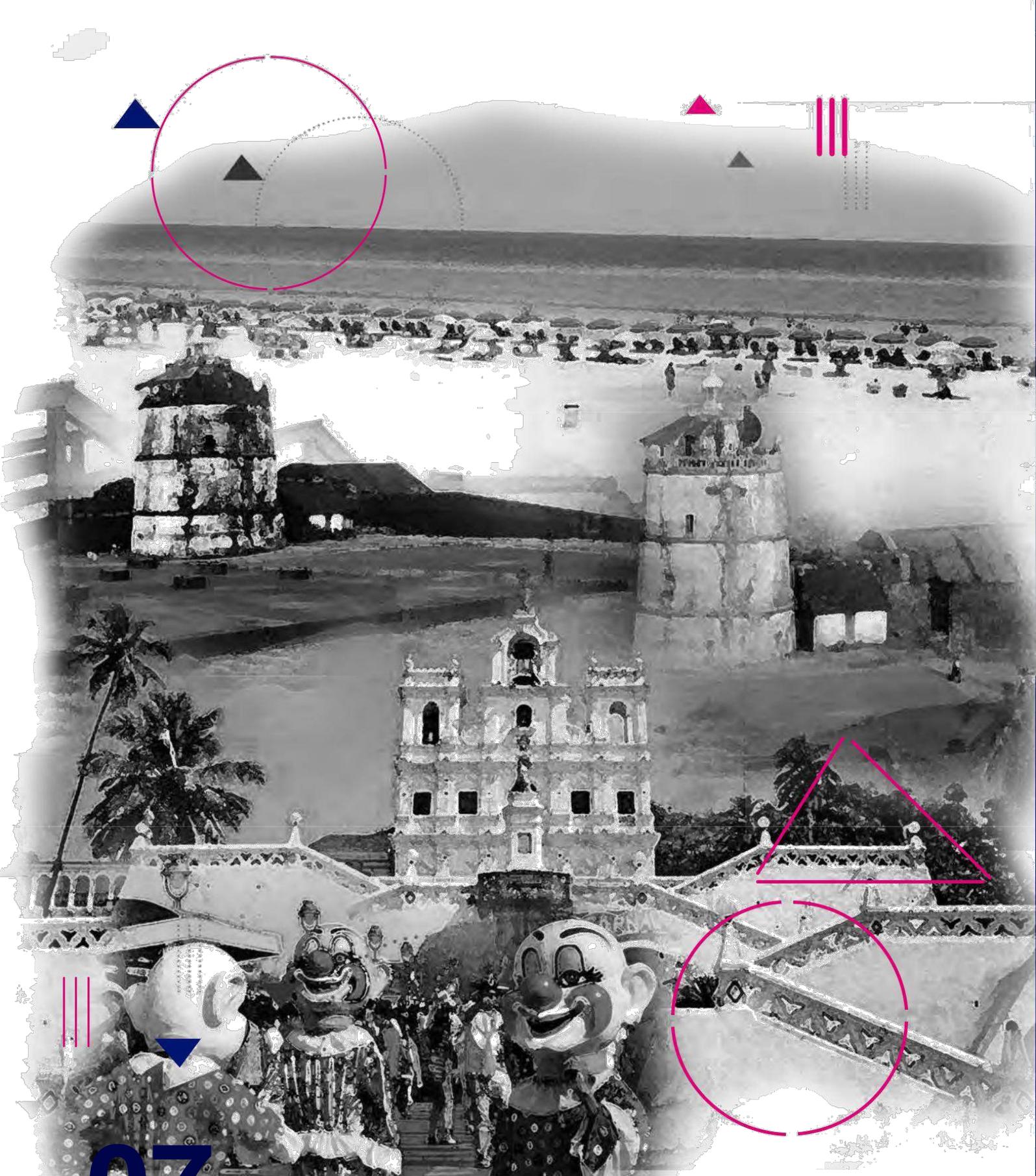
AWARENESS PROGRAM FOR DEALERS



AWARENESS WORKSHOP FOR COLLEGE STUDENTS



E-WASTE RALLY



07 Panjim

Organization Name
Communicare Trust

Summary Table of Activities and Workshops

Sr.No	Stakeholders	Target Nos.	Actual No. of workshopsdone	Actual No. of activitiesdone	No. Participants
01	Schools	1470	3	9	3265
02	RWA's	2770	1	7	1484
03	Bulk Consumer	240	1	5	884
04	Dealers	25	0	12	123
05	Colleges	650	4	14	653
06	Refurbishers	60	1	0	52
Grand Total			10	47	6461

Brief Summary of the program

The above table gives a summary of workshop and activities for different stakeholders. The campaign in Panjim began with the display of e-waste tableau during the Goa Carnival. The tableau helped in reaching out more than 20000 people across Goa (detailed report attached in Annexure 4). The activities ranged from poster presentation and screening of e-waste awareness videos to street plays in different areas. One of the major activities in Panjim was the e-waste collection drive which targeted the bulk consumers and RWAs to demonstrate an effective collection mechanism. Technical workshops were organized for stakeholders like refurbishers and bulk consumers. The campaign was well supported by the Govt. of Goa notably, the Goa Waste Management Corporation, the Goa State Pollution Control Board and the Corporation of The city of Panaji and members of the society like Goa Civic & Consumer Action Network (GOACAN).

List of stakeholders who participated in the campaign



Schools

Auxilium high school, Taleigao
 Our Lady of the Rosary Higher Secondary school (Green Rosary), Dona Paula
 Santo Miguel high school, Taleigao
 Sharada Mandir high school, Miramar



Colleges

Saraswat College, Mapusa.
 Government Polytechnic Goa (GPP), Altinho
 Government Polytechnic Goa (GPP), Altinho
 Government Polytechnic Goa (GPP), Altinho
 St. Xavier's College, Mapusa- BCA Students
 Saraswat College, Mapusa- BBA Students



RWA's

Kamat Classic III
 Milroc Retreat
 Pop it Up
 RWA's at EDC
 Street play at Margao Railway station – 3 performances (RWA and Students)



**RESIDENTS OF
KAMAT CLASSIC III**



**WORKSHOP AT
EDC COMPLEX**



**PAMPHLET AND BADGES
DISTRIBUTED AT STALL
FOR POP IT UP, TALEIGAO**



RWA's

Kamat Classic III

Milroc Retreat

Pop it Up

RWA's at EDC

Street play at Margao Railway station – 3 performances (RWA and Students)



**E-WASTE COLLECTION DRIVE
OPP MENEZES BRAGANZ**



Bulk Consumers

SBI

Hospicio hospital, Margao

Healthway hospital, Old Goa

Country Inn – talk for all Panchayats

Yes Bank- Panjim



REFURBISHER WORKSHOP



Refurbishers

1. Panjim Market



AJANTA TRADING COMPANY



Dealers

Covered through door to door sensitization program



Special focus

A collection drive was organized for RWAs and Bulk Consumers. Five locations were identified with the help of Goa Waste Management Corporation and bin was placed in each bin. The locations are mentioned below.

- 01** GPP-Altinho
- 02** KTC Bus Stand- Panjim,
- 03** GHRSSIDC- Opp Menezes Braganza,
- 04** GHRSSIDC- Mala
- 05** Animal Shelter- Santa Cruz.

The collection drive was inaugurated by Mr. Dharmendra Sharma Chief Secretary, Government of Goa & Ranbir Singh, Principal Secretary, Environment & Forest on 5th June World Environment Day. The collection drive was promoted on Radio, local newspapers, online media, Facebook and word of mouth. A total collection of 4 tons was done from the 5 places together with 14 Govt offices.



INAUGURATION OF THE DRIVE AT CENTRAL LIBRARY

Prominent Guests

The awareness campaign had many prominent govt. officials and experts from the industry participated in various programs and stirring conversation around e-waste.

Mr. Dharmendra Sharma I.A.S Chief Secretary, Government of Goa.

Ranbir Singh I.A.S , Principal Secretary, Environment & Forest

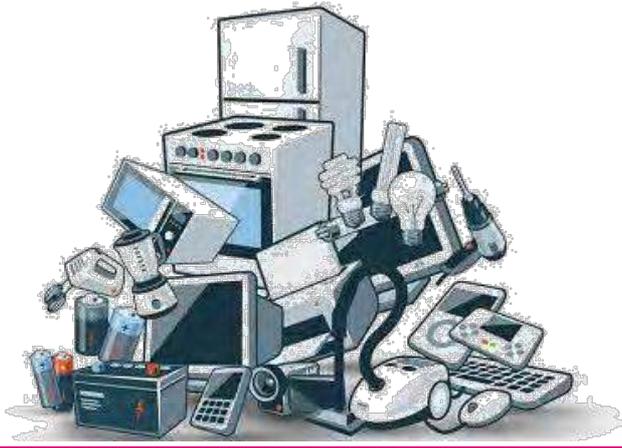
Mr. Sanjit Rodrigues, Managing Director Goa Waste Management Corporation

Prof. Suhas Godse, State Expert Appraisal Committee (SEAC)

Mr. Roland Martins Goa Civic & Consumer Action Network

Elsa Fernandes, HOD-Computers, GPP 33

Dominic Fernandez Goa Waste Management Corporation



Challenges

Several challenges were faced during the program. Some of the challenges are listed below:

01. Several schools and colleges were closed due to the summer holidays which delayed the program.

It was difficult to gather stakeholders like refurbishers and dealers during their operating hours.

03. It was difficult to gather important stakeholders (govt. officials and private players) due to clashes of dates in their calendar.



Tons of e-waste collection made.



CEO of NASSCOM Foundation and chief guest at the Bulk Consumer Workshop

Outcome

The awareness campaign was received very well among all the stakeholders. About 4 tons of E-Waste was collected and recorded. (2 tons from Govt. and 2 tons from residential localities in and around the city) It was felt that there is a need for continual engagement with all the stakeholders to streamline the e-waste management process. Panjim being a small city has its own set of challenges which need to be addressed in a holistic manner.

Impact

The campaign was well received by all the stakeholders. Some of the impact areas are listed as follows-

01



A detailed report of the collection drive has been requested by Corporation of the City of Panaji and Goa Waste Management Corporation to understand the feasibility of scaling the same at a city/state level respectively.

02



During the campaign, 17 E-Waste Recyclers was introduced to GWMC to help set up a centre for refurbishing in the state. This is aimed at building Goa's first authorized refurbishing – recycling centre.

03



NASSCOM Foundation has been requested by GWMC to help design the collection architecture for the state of Goa.

Photo Tour

E-WASTE
REFUSE-REDUCE-RECYCLE-REUSE

What is e-Waste

e-Waste is any hardware or remaining electrical or electronic appliance.

e-Waste includes computers, entertainment electronics, mobile phones and other items that have been discarded by their original user.

e-Waste in India
India generates close to 18 lac metric tonnes e-Waste per annum only 4% is recycled due to poor infrastructure estimated 52 lac metric tons per annum by 2020

Top 3 e-Waste Generating Cities of India (2016)

City	Waste (Metric Tons)	Recycled (Metric Tons)
Mumbai	1,00,00,000	10,00,000
Delhi	80,00,000	8,00,000
Bangalore	60,00,000	6,00,000

Waste Toxic Components & their Damage to Human Health

Toxic Component	Mercury	Lead	Cadmium	Chromium	Polychlorinated Biphenyls	Polycyclic Aromatic Hydrocarbons
Lead	X	X	X	X	X	X
Cadmium	X	X	X	X	X	X
Chromium	X	X	X	X	X	X
Polychlorinated Biphenyls	X	X	X	X	X	X
Polycyclic Aromatic Hydrocarbons	X	X	X	X	X	X
Mercury	X	X	X	X	X	X
Platinum	X	X	X	X	X	X
Other	X	X	X	X	X	X

Harmful Health Effects of e-Waste

- respiratory
- neurological pain
- diarrhea

Segregate your e-Waste

on initiative by a project by in association with

Workshops conducted for Schools



AUXILLIUM SCHOOL



DON BOSCO SCHOOL



NALINIS PRESENTATION FOR TEACHERS OF CENTRAL ZONE



OUR LADY OF THE ROSARY, DONA PAULA

Pamphlets distributed to stakeholders explaining the process



AWARENESS WORKSHOP FOR BULK CONSUMERS



GOA CARNIVAL



Workshops conducted for Bulk Consumer



SHARADA MANDIR SCHOOL



NALINIS PRESENTATION FOR TEACHERS OF NORTH ZONE



STREET PLAY AT MARGAO RAILWAY



RANBIR SINGH PRINCIPAL SECRETARY ENVIRONMENT AND FOREST AND SHRI DHARMENDRA SHARMA CHIEF SECRETARY GOVT OF GOA INAUGURATING THE COLLECTION DRIVE



STAFF WATCHING THE PRESENTATION AT HEALTHWAY HOSPITAL, RIBANDAR



WORKSHOP FOR BULK CONSUMER



PRESENTATION AT SARAWAST COLLEGE



APEX MARKETING



WORKSHOP FOR REFURBISHERS





08 Patna

Organization Name
Institute of Environment and Eco-Development (IEED)



Summary Table of Activities and Workshops

Sr.No	Stakeholders	Target No.	Actual No. of workshops held	Actual No. of activities held	No. Participants
01	RWA's	3000		15	1235
02	Schools	1000		10	950
03	Colleges	4000	1	16	3945 (including 56 participants in 01 workshop)
04	Dealers	100		1	100
05	Bulk Consumer	100	00	1	100
06	Manufacturers				00
07	Informal Sector				00
08	Refurbishers	350	2	1	350 (including 156 participants in 02 workshop)
Grand Total		8550	3	43	6680

Brief Summary of the program

The above table gives a summary of the workshops and activities under the campaign. The activities ranged from poster presentation in schools to nukkad natak for colleges and RWAs. One of the highlights of the program was the e-rickshaw, launched by Hon'ble Mayor of Patna Afzal Imam. The e-rickshaw in conjunction with nukkad natak was helped in popular places in Patna like the Gandhi Maidan and High Court. As it was difficult to gather stakeholders like bulk consumer, dealers and refurbishers at one place, a door to door sensitization program was organized to sensitize them. The refurbishers contacted during the program were invited to the technical workshop. A technical workshop was also organised for nodal officers and principals who were identified during the awareness activities. The campaign was supported by government departments like the Patna Municipal Corporation, Bihar Pollution Control Board and private bodies like Bihar Industries Association, the premier industries association in Bihar. The campaign also resulted in the formation of eco-clubs in 11 colleges in Patna.

List of stakeholders covered under the program



Schools

- Govt. Girls Senior Secondary School, Bankipur, Patna
- Govt. Kamla Nehru Girls School, yarpur, patna
- Govt. Baldeva Inter School, Danapur, patna
- Govt. Boys Senior Secondary, Shastrinagar, patna
- BMP-5 Senior Secondary, School Camp jail, Patna



Colleges

- 1. Govt. Womens Polytechnic, Phulwarisharif, Patna
- New Govt. Polytechnic, Patliputra, Patna
- Govt. ITI, Digha, Patna
- Govt. Girls, School, Patna
- B. S College Danapur
- Magadh Mahila College
- B.D. evening College
- Ramlakhan Singh Yadav College



RWA's

NIT Ghat

Gulbi Ghat

Gandhi Maidan East

Polytechnic Mor

High Court

New Secretariat

Rasalpur

Bahadurpur Gumti

Monin-ul Haque Stadium

ECO Park

Phulwadi Chauraha

Phulwadi Station

Sachiwalaya Station

Bankipur Ground

Prominent Guests

The awareness campaign had many prominent govt. officials and experts from the industry participated in various programs and stirring conversation around e-waste.

Md. Afzal Imam Honble Mayor of Patna

Md. Shahreyar Faisal Additional Secretary, Dept. of I.T, Govt. of Bihar

Dr. Navin Kumar, Scientist, Bihar State Pollution Control Board

Dr. B. Prasad Chairman Environmental Committee, Bihar Industries Association

Mr. Indushekhar Singh, Retired Member Secretary, Bihar State Pollution Control Board

Mr. Mukta Nand Mishra, Managing Director, Green Strive Limited

Mrs. Sobha Devi, ward commissioner Ward No-28

Mr. Mahmood Khurasi, ward Commissioner, Ward-62,

Prof. U. G. Singh from IIBM, Patna

Challenges

Several challenges were faced during the program. Some of the challenges are listed below:

Political development in state also prevented the organisation of workshop for bulk consumers.

Heavy Rains delayed some of the programs.

Outcome

The campaign was well received by all the stakeholders. The e-rickshaws program and nukkad natak helped to build momentum on e-waste awareness. The project team was also able to garner the support of government bodies like Department of IT, Govt. of Bihar, Patna Municipal Corporation. It was felt that there was a need for continual engagement as a follow up to awareness campaign and also create an ecosystem which would foster the setting up e-waste collection and treatment system in the state.



Bulk Consumer

Banks

Computer Training Centres



Refurbisher

Covered through door to door sensitization program followed by a workshop on 29th July 2017 at Bihar Industries Association.



Dealers

Covered through a door to door sensitization program in the main electronic markets of Patna.

Impact

The campaign was well received by all the stakeholders. Some of the impact areas are listed as follows-

01 Eco Club consisting of 550 students in 11 colleges

and nodal teachers in 14 colleges was formed across the city. The eco-club would facilitate the setting up of collection points in their colleges. This would also ensure sustainability of the program.



A SCENE OF NUKKAD NATTAK AT MAGADH MAHILA COLLEGE

02 Details of 200 Refurbishers have been compiled in the Patna Municipal Corporation area.



A SCENE OF INTERACTIVE SESSION DURING COLLEGE WORKSHOP



A SCENE OF POSTER EXHIBITION AT ITI DIGHA



INAGURATION OF ORIENTATION BY THE PRINCIPAL ,GOVT. SENIOR SECONDARY GIRLS SCHOOL PATNA



NUKKAD NATTAK AT B. S. COLLEGE DANAPUR



AWARENESS WORKSHOP IN KENDRIYA VIDYALAYA



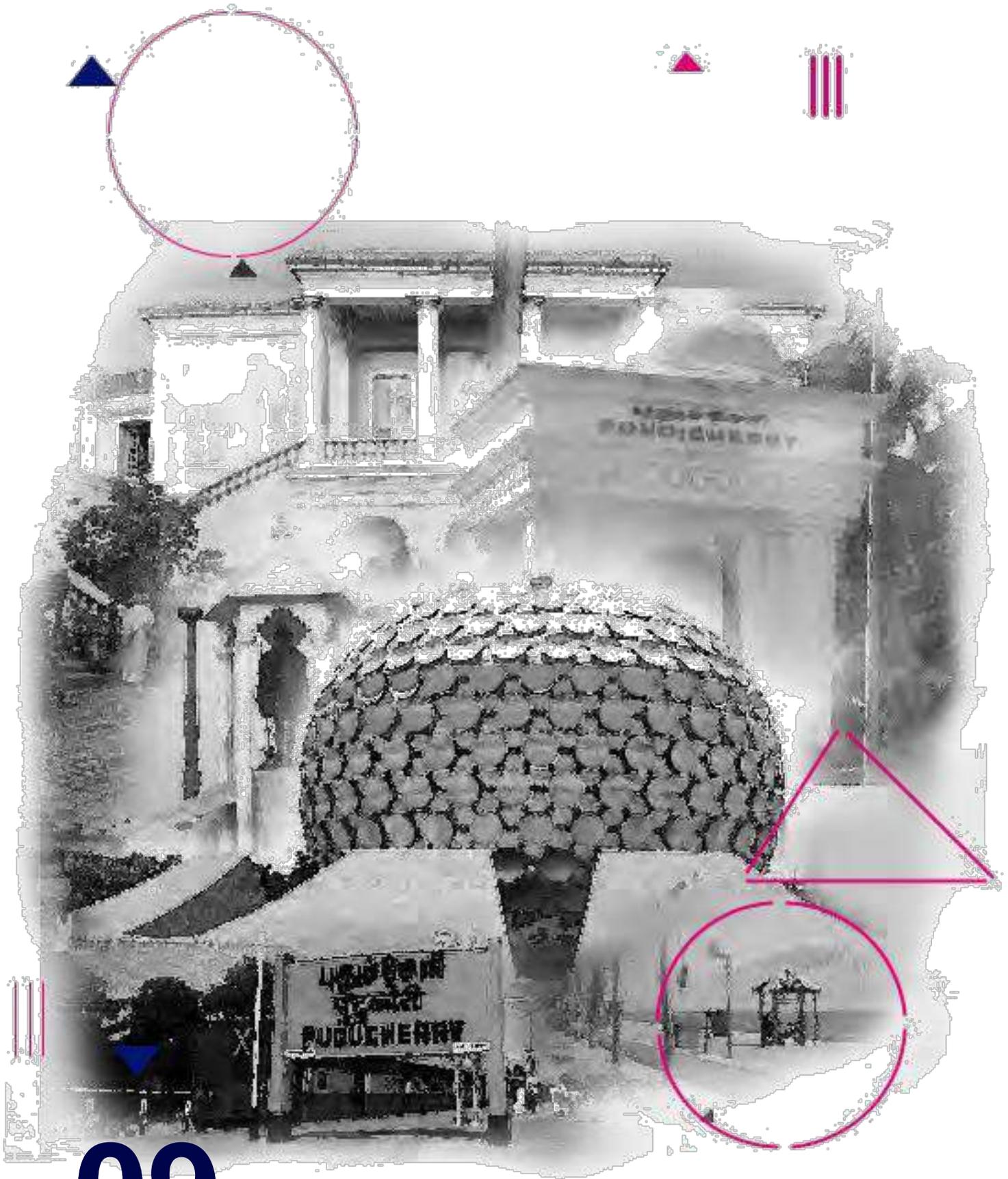
NUKKAD NATTAK AT NIT, GHAT, PATNA



POSTER EXHIBITION AT BMP SENIOR SECONDARY SCHOOL PATNA



ORIENTATION OF STUDENTS AT KAMLA NEHRU GIRLS HIGH SCHOOL, PATNA



09 Puducherry

Organization Name
Avvai village welfare society, Karaikal

Summary Table of Activities and Workshops

Sr.No	Stakeholders	Target No.	Actual No. of workshops held	Actual No. of activities held	No. Participation
01	RWA's	2	0	2	335
02	Schools	5	0	5	3695
03	Colleges	6	1	5	1455
04	Dealers	2	0	2	105
05	Bulk Consumer	3	2	1	467
06	Manufacturers	2	0	2	136
07	Informal Sector	0	0	0	0
07	Refurbishers	2	1	1	135

Brief Summary of the program

The above table gives a summary of workshop and activities. Activities ranged from poster presentation to screening of films for different stakeholders. The campaign received a lot of support from the government department namely, Puducherry Pollution Control Committee, Department of Education and District Collectorate of Karaikal with govt officials participating in most of the programs. Schools were issued notices to support the Campaign. As it was difficult to gather certain stakeholder like bulk consumers, dealers and refurbishers, door to door sensitization programs were organized to sensitize them on e-waste. The stakeholder contacted during the sensitization program were then invited for the technical workshop. The awareness was held in both Puducherry and Karaikal.

List of stakeholders who participated in the campaign



Schools

Govt. Hr. Sec.School, Oulgaret, Puducherry
Subramania Bharathiyar Govt. Girls Hr. Sec.

School, Puducherry

Thiruvalluvar Govt. Girls Hr. Sec. School, Puducherry
Govt.Girls Hr.Sec School, Kadirkamam ,Puducherry
NSS and NCC students



Colleges

Indra Gandhi Arts and Science College, Kathirkamam
Rajiv Gandhi Arts and Science
College, Thavalakuppam
Pondicherry Engineering college Puducherry
Perunthalaivar Kamarajar Arts & Science College
Bharathidasan govt college for women



Bulk Consumer

Hindustan Uniliver Limited
Workshop at Kamban Kalaiarangam



Refurbishers

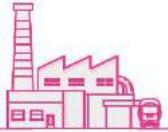
Workshop was held at Oulgaret

Door to Door sensitization program at Rainbow Nagar



Dealers

1. Door to Door sensitisation program



Manufacturers

1. Chemin C & I, Puducherry.

Prominent Guests

The campaign was attended by several officials from govt. as well as the private sector. Some of them are listed below:

S. Ganesan, Director, Science and Technology

Mr. Moorthi, Deputy Director, Education Department, Puducherry

Mr. P. Parthiban, District Collector, Karaikal

Mr. Mangalate Dinesh, Additional Collector, Karaikal

Mr. Ramesh, Environmental Engineer, Department of Science Technology & Environment, Puducherry

Mr. Prabhakaran, Municipality Health Officer

Mr. Purushothaman, Sub-Inspector of Police, Thavalakuppam

Mrs. R. Vijayalakshmi, Assistant Community Organizer, Pondicherry Municipality

Mr. Rithesh Chandra Fire Officer



Impact

The campaign was well received by all the stakeholders. Some of the impact areas are listed as follows-

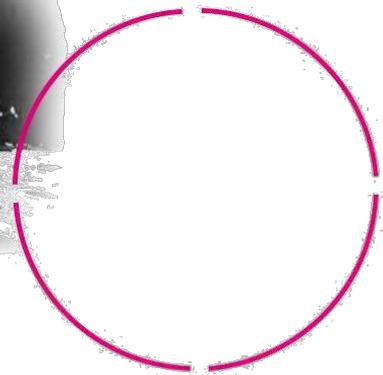
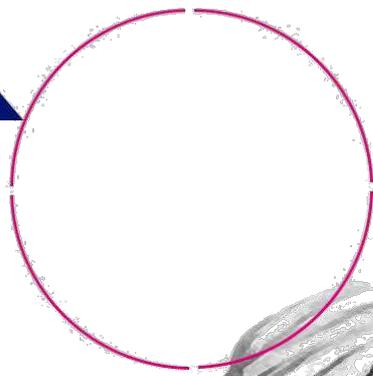
01 A database of refurbishers and dealers has

been created through a survey and door to door sensitization campaign under this project. The survey has also highlighted the current mode of disposal followed by refurbishers and challenges faced by them.

02 The citizens have asked for an effective e-waste collection and disposal system for Puducherry.

Workshops conducted for Schools





10 Ranchi

Organization Name
Bharat Lok Kalyan Sansthan



Summary Table of Activities and Workshops

Sr.No	Stakeholders	Target No.	Actual No. of workshops held	Actual No. of activities held	No. Participation	Location
01	RWA's	675	1	34	10926	Different Location
02	Schools	675		8	9591	6 schools
03	Colleges	675	1	6	1077	7 colleges
04	Dealers	675		2	180	Different Location
05	Bulk Consumer	675	2	1	437	Different Location
06	Manufacturers	675	0	2	255	Kokar
07	Informal Sector	675	0			
07	Refurbishers	675	1	2	381	Different Location

Brief Summary of the program

The above table gives an overview of activities and the workshop held in Ranchi. The activities ranged from Nukkad Natak to puppet shows for schools and RWAs. Rahgiri Day and Jagannath Mela was also targeted for reaching out maximum number of people. The campaign also went live on 92.7 FM. Technical workshops were organised for stakeholders like Bulk Consumers, Refurbishers and Dealers who have a crucial role to play in the entire e-waste management system. Officials from NIELIT were invited to take session on e-waste during the workshop. As it was roof, a door to door sensitization was difficult to gather stakeholders like dealers, bulk consumer, refurbishers under one roof a door to door sensitization program was undertaken. The refurbishers and bulk consumers contacted during this campaign were invited for the technical workshop. The campaign received a lot of support from Ranchi Municipal Corporation (RMC) with the mayor, deputy mayor and municipal commissioner attending many of the events. To ensure that adequate support is received from different ward representative, an orientation program was organised for all the ward representatives. The activities particularly the nukkad natak and puppet gained a lot of popularity among stakeholders with a number of ward representative requesting for the activities in their respective wards.



Schools

Bishop Hartman Academy

DAV Gandhinagar, CCL, Ranchi

Oxford Public School Junior Wing, Chutia, Ranchi

International Public School, Kanke

Oxford Public School Senior Wing

Yogoda Satsanga Kanya Vidyalaya



Colleges

Doranda College, Ranchi

Ranchi college

Ranchi Women's College

Gossner College

St. Paul College

St Xavier College



Upper Chutia

Karbala Chowk

Karbala Chowk, Lower Bazar

South Railway Colony Ground, Chutia

Pathalkudwa

Katchery Road

Hindpiri, Choti Masjid

Harmu Housing Colony

Ashok Nagar

Kishoreganj

Madhukam

Ratu Road Chowk

Indrapuri

Firyalal Chowk

Prominent Guests

The workshops and activities were attended by prominent members of govt. and private sector in Ranchi



RWA's

Daily Market

Sainik Market

Lalpur Chowk

Belbagan

Mahadev Ganj

Sinchai Colony Shiv Mandir ke Pass

Dhurwa Bus Stand

Vidyanagar JP Market

Durga Mandir

Jagannath Mandir

Golchakkar Market Sector 2

Jorar (Pahan Toli

Bada Ghaghar (Upper Toli)

Kusai Basti

Hundru Airport Ranchi

Hatia Station Road Hatia

Choriya Toli Singhmore

Nala Road Hindpiri (Ranchi)

L. F Road Bhatti Chowk

Mujahid Chowk, Harijan Basti

Tipudana Chowk



AWARENESS WORKSHOP FOR BULK CONSUMERS



AWARENESS WORKSHOP FOR BULK CONSUMERS



AWARENESS WORKSHOP FOR BULK CONSUMERS

Mr. C. P. Singh, Minister Urban Development and Transport, Government of Jharkhand.

Mr. Umesh Kumar Shah Director Information Technology & E -Governance, Government of Jharkhand

Mr. Balbir Dutt (Padmashree in the field of Journalism)

Mr. Mukund Nayak (Padmashree in the field of Art)

Usha Pandey (President Social Welfare Department)

Rita Munda (Member Rajya 20 Sutri),

Vimla Sahu, (Member Rajya 20 Sutri),

Arti Singh (Mahila Morcha Pradesh Adhyaksh)

Ram Kumar Pahan, (MLA Khijri)

Randhir Choudhary (BJP member)

Umesh Kumar Saha (IT Director)

Usha Pandey (President Social Welfare Department)

Asha Lakda Mayor Ranchi Municipal Corporation

Sanjeev Vijaywargiya Deputy Mayor Ranchi

Rita Munda Member Rajya 20 Sutri

Impact

The campaign was well received by all the stakeholders. Some of the impact areas are listed as follows-



01

A database of refurbishers and dealers has been created through a survey and door to door sensitization campaign under this project. The survey has also highlighted the current mode of disposal followed by refurbishers and challenges faced by them. The refurbisher have requested for a collection point in



02

Details of 200 Refurbishers have been compiled the in Patna Municipal Corporation area.



CHIEF GUESTS AT THE WORKSHOP FOR BULK CONSUMER



AWARENESS WORKSHOP FOR BULK CONSUMERS

E-WASTE RECYCLE AWARENESS PROGRAMME



AWARENESS CAMPAIGN FOR COLLEGES



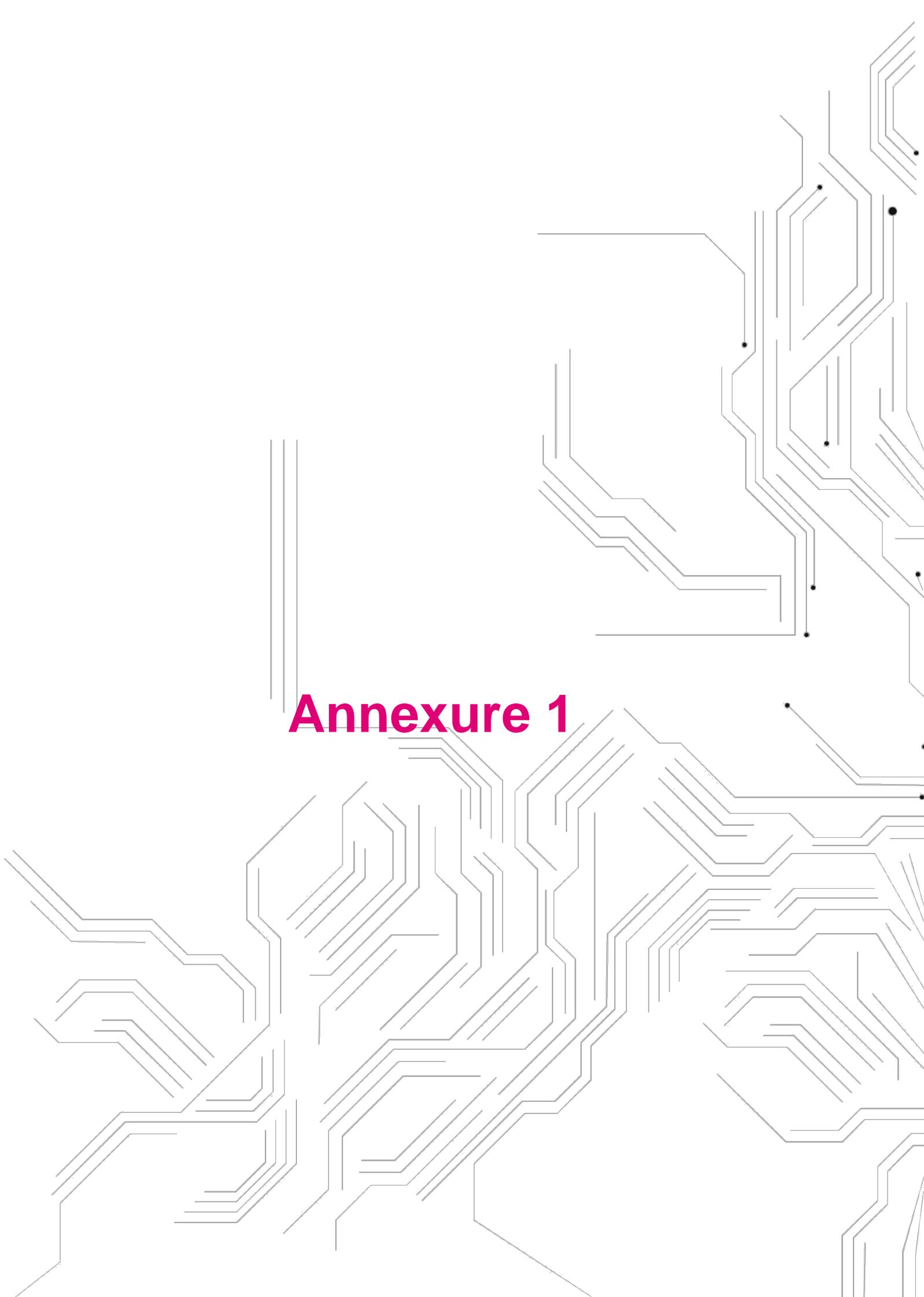
AWARENESS CAMPAIGN FOR SCHOOLS



SHRI C.P SINGH MINISTER URBAN DEVELOPMENT AND TRANSPORT, GOVT. OF JHARKAND



AWARENESS CAMPAIGN FOR RWAs



Annexure 1

Detailed write-up on challenges and way forward by DISHA, Kolkata

There is practically no authorized E-waste recycling unit in 11 eastern and north-eastern states of India (Bihar, Jharkhand, Orissa, West Bengal, Assam, Arunachal Pradesh, Manipur, Meghalaya, Nagaland, Mizoram and Tripura). Existence of one unit in West Bengal and another in Orissa have been mentioned in the CPCB list but their capacity and performance are questionable.

If any bulk consumer in these states wants to dispose of their E-waste, they have to contact one or more recyclers operating in a distant state and ask them to receive their E-waste. There is uncertainty and even if any authorized recycler desires to accept, there are complications regarding fixing of prices of waste, transportation costs, document preparation, formalities for transfer from one state to other state etc. So almost all the bulk consumers, either going through tender process or directly, dispose off their e-waste to any vendor / collector. Ultimately such e-waste are being sent for dismantling and recycling to informal sector which assures more price and less formalities/ compliance in comparison to those offered by authorized recyclers.

We are not going to any detailed discussion regarding the e-waste rules and their implementation in general. Here the main issue that has been focused on is maximum channelization of e-waste to formal authorized responsible recycling sector.

In May 2011, MoEF notified the first Rules on E-Waste namely E-Waste (Management and Handling) Rules, 2011. The Rules identified different players in E-Waste management stream and responsibility was fixed for each of them –

There is no collection centre available in Kolkata to the common man for disposing of E-waste. This is not only true for Kolkata but also true for all the cities and towns of all these 11 states of east and north-east India. Toxics Link and DISHA set up a bin in the office of WBPCB three years back just to create awareness. Some other bins were set up in different schools and colleges. However, those bins are neither being used properly nor has any authorized recycler taken an interest to empty those bins as those are not economically viable to them. While a lot of awareness around e-waste has taken place, the disposal issue is one that is not successfully addressed. Naturally, people are handing e-waste to waste collectors / kabadiwallas who offer them some price. Thereafter, all these e-wastes are traverse different stages of informal sector for final dismantling and recycling.

The price of e-waste increases stage by stage. The maximum price at the highest stage generally matches with the price offered by the informal dismantlers and recyclers. This price is almost twice or thrice more than the price offered by the formal authorized dismantlers or recyclers, as the latter need to bear infrastructural, overhead, pollution and administrative costs which are negligible in informal recycling. So the natural course of e-waste is destined to land at informal sector that fetches more price. Hence, setting up of authorized registered recycling units may not ensure proper e-waste management, until and unless the bulk of the E-waste is channelized from informal sector to authorized sector. This process of channelization is almost absent all over India and therefore any visible progress achieved in safe e-waste management practices is negligible.

A Brief Review of the Rules:

01 Producers to ensure collection of E-Waste

generated during manufacture, collection of E-Waste due to “end of life” by EPR principle, setting of collection centres individually or collectively and channelization of collected E-Waste to authorized recycling unit,

02 Collection Centres to obtain authorization from central or state PCB or PCC, ensure collection to store in secured manner and finally transferred to registered dismantler or recycler,

generated by them is channelized to authorized collection centres or registered dismantlers or

03

Bulk consumers to ensure that E-Waste registered recyclers.

The point to be noted here is that there is scope of monitoring by the state pollution control authorities to see that the bulk consumers properly channelize their e-waste through authorized collection centres (or directly to the registered dismantlers or recyclers). Pollution control authorities could directly check whether the bulk consumers were handing over their E-waste to formal channel. In such a scenario, at least 70% of total E-waste could be channelized to authorized recycling units. In case of individual consumers, such monitoring or checking is challenging since it has been found that e-waste generation by individual consumers is less than 30% of total e-waste generated. However the individual consumers could also hand over such waste to authorized collection centres, if there is a clear knowledge on where to dispose.

Role of independent decentralized collection centres is vital, as those could be the gateways for the consumers to reach authorized dismantling / recycling. A conscious consumer, whether individual or bulk, always wants to know where they should dispose of their e-waste and in most cases wants to get something in return. Independent collection centres could provide such facility provided they would take authorization from pollution control authority as per 2011 Rules.

As per 2011 Rules, the pollution control authorities also had the scope to monitor the collection centres whether they are handing over all their collected waste towards registered dismantling or recycling unit as the collection centres needed their authorization directly from the state pollution control authorities.

Another important point is the role of informal waste collectors. At present, trading and recycling of e-waste is entirely dependent upon the informal sector and they have the large network and access of collection of e-waste. Livelihood of large number of informal workers is depending upon e-waste. If an authorized collection centre is to run successfully, it has to tie up with these informal collectors. Obviously there are hazards in informal dismantling and informal recycling but informal collection is as such not at all hazardous. So the authorized collection centres could tie up with these informal collectors and arrange collection with business viability. Without a viable business model such collection centres cannot run successfully. In India a collection centre cannot run just on the basis of free donation of e-waste which are otherwise valuable to others. These collection centres could develop network with the informal collectors to ensure a proper successful collection system. It is to be understood that informal dismantling and recycling cannot be stopped just by policing and coercion. The best way to switchover was to snap the chain from informal collectors to informal dismantlers / recyclers and replace it by informal collectors to authorized collection

centres. A detailed business model for collection centre will be discussed in later part of this article. In E-waste Management Rules 2016, the concept of independent authorized collection centre has been removed. According to this Rules, the collection centres will collect on behalf of producer or dismantler or recycler or refurbisher.

Here the collection centres need no authorization. Only the producer or dismantler or recycler or refurbisher will have authorization and collection centres have to collect on behalf of them. It is to be understood that producer or dismantler or recycler or refurbisher are centralized units. Number of producer or dismantler or recycler or refurbisher may be limited. But we need innumerable collection centres all over the country. Authorization of producer or dismantler or recycler or refurbisher mostly will be from one authority. If the collection centres will have to work only on behalf of them, any decentralized monitoring will not be possible by the state pollution control authorities.

The principle of EPR has been given importance in this Rules to make the producers responsible for responsible for recycling. The mandatory quota of collection and recycling with time frame has also been directed. But the method suggested will not attract channelization of e-waste. If large number of independent authorized collection centres does not exist, collection will definitely fail. At the same time, decentralized monitoring will be stopped as the state pollution control authorities will not be able to monitor the collection centres as the later will not need any authorization from them. They will act on behalf of producer who generally will be authorized by one (and most often central) authority.

The state pollution control authorities will also not be able to monitor the disposal of the bulk consumers as their responsibility now is to channelize waste through collection centre of authorized producer. If such collection centre is not available, what will be done is not indicated in the present Rules clearly.

Practically, it is being noticed that the producers or manufacturers or refurbishers do not provide any such collection centres in most of the cities and towns. Let us forget about number of collection centres in a city, there is not a single known collection centre of any authorized producer in Kolkata city.

The main issue is of business viability. In India people are not conscious to donate e-waste knowing very well that these contain valuable recyclable items. Livelihood of large number of people is dependent on this.

The issue of business viability to ensure channelization has not been taken up in the new Rules. Of course this

issue was also not considered in the earlier Rules, but the provision of individual authorized collection centres kept in the 2011 Rules, at least gave the scope of such 65 business viability. The new Rules emphasized on EPR. In principle this is correct. But the suggested ways and means for implementation of EPR do not appear practical. Without ensuring business viability of channelization and incorporating EPR in the process, E-waste management in India cannot be successful.

If the issue of business viability of channelization is given importance, different ways and means may be probed. Stakeholders working on the issue will definitely suggest several methods to ensure channelization. One such method, as experienced by DISHA, is discussed here with humble note that there may be other viable means of effective channelization.

They have business with the large informal recyclers in different parts of the country. They sell these obsolete mobile phones at Rs 25 to 30 to the informal unauthorized recyclers.

Most of the obsolete mobile phones of the city converge to them through the network of informal collectors of various stages. Apparently these apex collectors could be motivated so that they channelize their waste to formal recycler. DISHA vigorously took effort to do so as they stock all the obsolete mobile phones of the city. But this effort did not succeed. An authorized recycler cannot offer more than Rs 18 to 22 for an obsolete mobile phone. They have to spend infrastructural and allied cost much more than the recyclers of informal sector. So the apex collectors of informal chain of the city readily declined to channelize their waste to authorized recycler as they do not want to suffer loss.

DISHA took another effort to organize the primary collectors so that they form Self-help groups, sort and store E-waste on their own and they themselves sell those direct to the authorized recyclers. Their rate of profit would be very high as they could get a price of Rs 15 – 18 from the authorized recyclers as against their collection price of Rs 1-5 from households and selling price of Rs 5-7 what they are getting from middle level secondary collectors. But in practice it was experienced that their capacity of collection of E-waste is not worthy of being involved in such business of specialized waste. They cannot collect/procure enough. They cannot store or hold their item/goods for a prolonged period. Their livelihood depends on daily earning and spending. They cannot continue transaction with bank, though support and handholding were provided towards bank linking.

Eventually the middle level collectors became DISHA's specific target group. They are specialized collectors unlike the primary collectors who collect assorted waste. Again they are not like apex collectors who hold large business. Our efforts were concentrated to help them form their network, and channelize their collection towards authorized recyclers. In terms of cost benefit ratio they do not suffer any considerable loss or any significant gain through such transaction. They sell an obsolete mobile phone at Rs 15-18 to the apex collectors. Authorized recyclers also offer such price. So there was a scope to motivate these collectors to accept the new channel as a parallel alternative. What we discussed above may be tabulated in following form taking two items viz., obsolete mobile phones and printed circuit boards (PCB) – In recent period, informal collectors were DISHA's main target group. DISHA had worked with them earlier also. But during last three years, focus of our E-waste management activities concentrated on them. The basic objective was to divert e-waste from informal sector to responsible authorized formal sector. Definitely this effort created some impact on their economic condition.

Before going into that we have to have a clear understanding about different categories of collectors and their different levels of business. To understand the issue of business of E-waste, we shall take obsolete mobile phones and its peripherals as example. An obsolete mobile phone from household is collected by a door-to-door collector with all assorted waste of that household. The collector has to pay around Rs 1 to 5 to the household for the same. Sometimes it may be available free of cost. These mobile phones are sold to junk shops where the primary collectors sell all kinds of waste collected from households. The price obtained for such obsolete mobile phones from junk shops is around Rs 5 to 7. Then the junk shops sort these waste and separate the obsolete mobile phones and its accessories (including other e-waste) for further sell. Some middle ranking or secondary collectors, who specially collect E-waste, purchase these mobile phones at a cost of around Rs 10. The e-waste collectors accumulate such obsolete mobile phones from many such junk shops. There may be another higher layer of such secondary collector who buy and sell specially E-waste. The price varies from Rs 15 to 22 at this level of purchase and sell. Finally these obsolete mobile phones reach to some apex collectors of the city. They control this chain of primary to secondary collectors.

Economics of the trade

Category	Collection Cost Rs		Destination	Selling Price Rs	
	Mobile phone /piece	PCB kg		Mobile phone /piece	
Primary Collector	0-5		→ Secondary Collector (A)	5-7	
Secondary Collector (A)	5-7		→ Secondary Collector (B)	8-10	500
Secondary Collector (B)	8-10	500	→ Apex Collector	15-18	700
Apex Collector	15-18	900	→ Informal Recycler	25-30	1200
Secondary Collector	8-10	500-700	Through DISHA to Format Authorise Recycler	15-20	800

DISHA helped these middle level collectors to store their items. With the authorization of Tamil Nadu PCB through Microsoft, DISHA made agreement with authorized recycler of Tamil Nadu to channelize the collection of the middle level collectors. DISHA makes payment to the collectors as and when they store their materials and send these to recycler after a considerable accumulation.

Instantly any considerable change or impact was not experienced by the collectors. But in due course they find that they need not to wait for a long time for payment, as they were used to, during business with the apex traders. So their fund is rolling quickly and they are being able to make more business. Most of them make business taking loan from informal market where rate of interest is very high, as much as 5 per cent per day. They suffer a huge loss by the way of interest due to detention of their investment. When they deal with the apex traders in informal market, they have to depend upon these apex traders' mercies. Otherwise they would not be able to continue their business. Moreover, prices of their collection are always insecure.

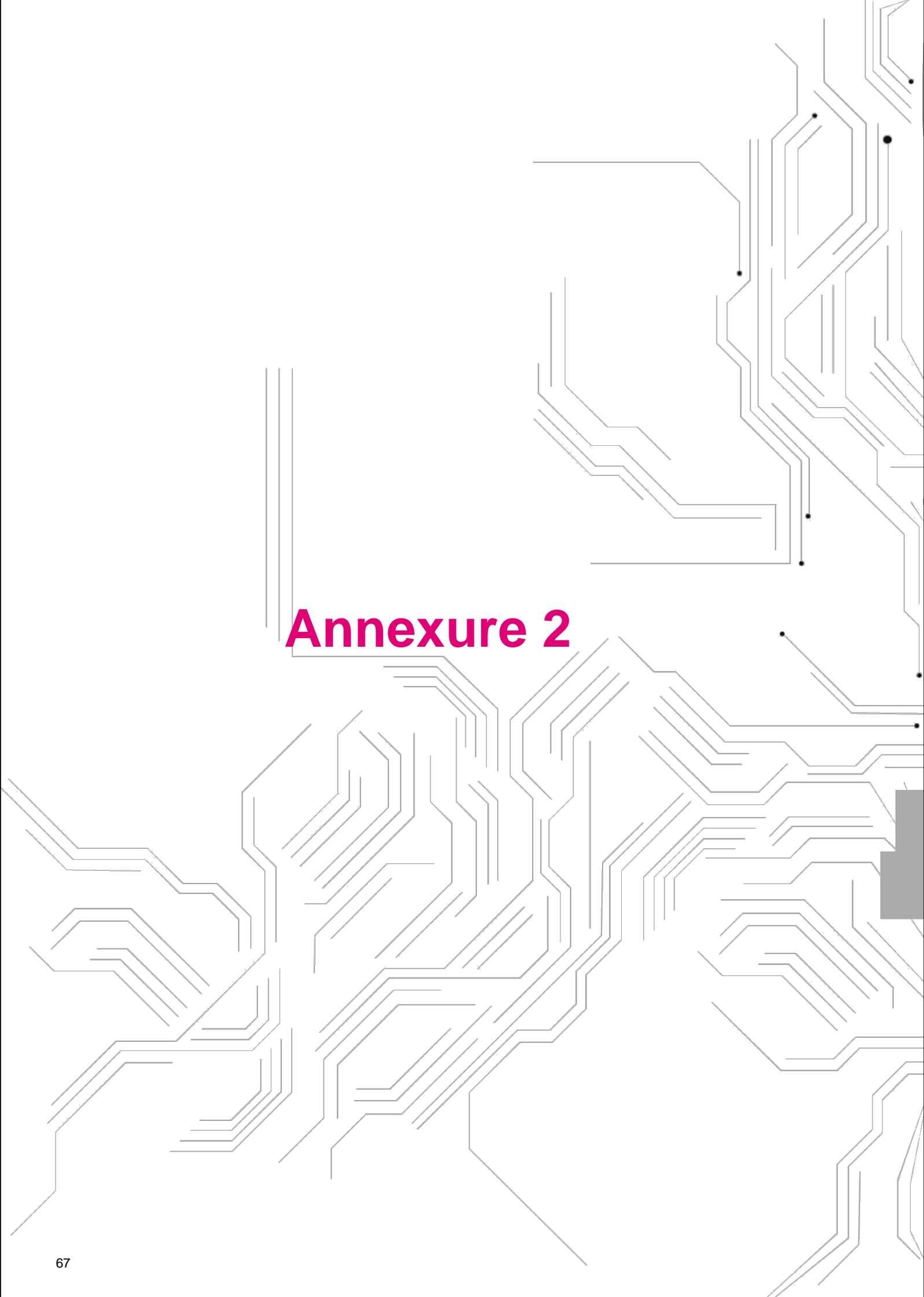
They do not know exactly what price they would get for their collection. Apex traders control the markets and dictate prices. For reasons unknown to these middle level collectors, the prices were cut down unilaterally by

the apex traders. But now these collectors attached with DISHA know that the prices of their collection are secure and they will not face sudden loss.

Another new feature of such business is weakening of the apex level informal traders. The chain is to be snapped. As much as the middle level collectors come to the formal channel, business of the apex collectors shrinks. They have to wind up their business. This will create more opportunity to the middle level collectors.

Of course the exact magnitude of such positive economic impact for the middle level collectors could not be quantified with the experience of such short period of two / three years and with a small range of sample but indications are very positive.

Our experience indicates that if little support is available from the producers of electric and electronic equipments under Extended Producer Responsibility (EPR) or Corporate Social Responsibility (CSR), authorized collection centres can run with economic viability. The middle level collectors can be motivated and supported to channelize their collection of e-waste to the authorized recyclers. Their livelihood as well as the livelihood of primary collectors will be protected. The informal business controlled by the apexcollectors will come to end.



Annexure 2

Social Media Coverage



Print Media Coverage in different cities



Plan for safe disposal of e-waste

SANDEEP BHAVIA

Bhubaneswar, Dec 7: New from Bhubaneswar's chief executive officer and awareness drives on management of electronic waste would be started at existing military installations and facilities across the state capital.

CEO Mahant Singh said the awareness programmes would include video plays, lectures and seminars. Addressing a workshop on environmentally sound disposal of electronic waste, he said management of e-waste had emerged as a challenge in cities especially those growing rapidly such as Bhubaneswar. It is imperative for universities, including college students and schoolchildren, to be aware of the need to dispose of such waste in a responsible manner, he said.

"The electronic waste is thrown out along with regular waste is handled mostly by child labourers on open grounds and broken down manually to reuse recyclable metals to be melted, leaving both the workers and soil exposed to toxic materials," Singh said. He added that the



Chief secretary AP Pathi and other officials discuss the hazards of e-waste in Bhubaneswar on Wednesday.

Press in South-Indian.com

They should segregate electronic waste and dispose everything using printing presses," he said. Bhubana said pack destroy would be started in disposal. Additional chief secretary and chairman, State Pollution Control Board, Odisha, R. Baidyaiah said since this Bhubaneswar was growing up to be a smart city, it is mandatory to be informed in ways to manage electronic waste.

He said an inventory study on the amount of electronic waste generated in the city had already been conducted by the Union ministry of electronics and information technology and the report would



The Assam Tribune

Health risk linked to mishandling of e-waste can't be ignored: Minister

Disposing of electronic waste in an unscientific manner is a health risk that cannot be ignored, the Minister said. He said that the government is taking steps to ensure that e-waste is disposed of in a safe and sound manner. He also mentioned that the government is conducting awareness programmes to educate the public about the hazards of e-waste.

Awareness programme on e-waste

By A Staff Reporter
(MNN) | Apr 28

Steps for a strategic policy for electronic waste will be started in Manipal and Northan Dahan, address Grama, department of Information Technology. Talking in HP on the occasion of an awareness programme on environmental hazards of electronic waste under Digital India held at Temple of Learning school, Cachipar today Dhan said the awareness programme was jointly organised by Ministry of Information Technology (MeitY), Comuser Electronics and Appliances Manufacturers Association (CEAMA), NASSCOM foundation, Manufacturers

Association of Information Technology (MAIT).

Dhan further said due to the advancement of science and technology every year several electronic devices starting from smart phone to some places non-producibility are disposing the electronic waste in order to take useful materials from the device which result cause health hazard.

As the state is in infant stage with regard to proper electronic waste disposal people can save their health hazards caused by electronic waste, he added.

Several students from seven different schools participated in the awareness programme.

RWAs, locals sensitized on hazards of e-waste

INDIAN BUREAU

www.bbc.com/news/india-2014-04-28-ewaste-awareness
Awareness drives and facilities done to highlight the hazards of electronic waste and encourage a more responsible use of electronic waste. A day-long awareness programme on environmental hazards of electronic waste was held at local Municipal Corporation (M.C.) office in Bhubaneswar on Wednesday.



Engagement of Manipal Police, District Board, Laxmipur, said that electronic waste is growing problem in the world. It is important to take steps to ensure that e-waste is disposed of in a safe and sound manner.

Health hazard is being generated at an alarming rate, said. It is important to take steps to ensure that e-waste is disposed of in a safe and sound manner. He also mentioned that the government is conducting awareness programmes to educate the public about the hazards of e-waste.

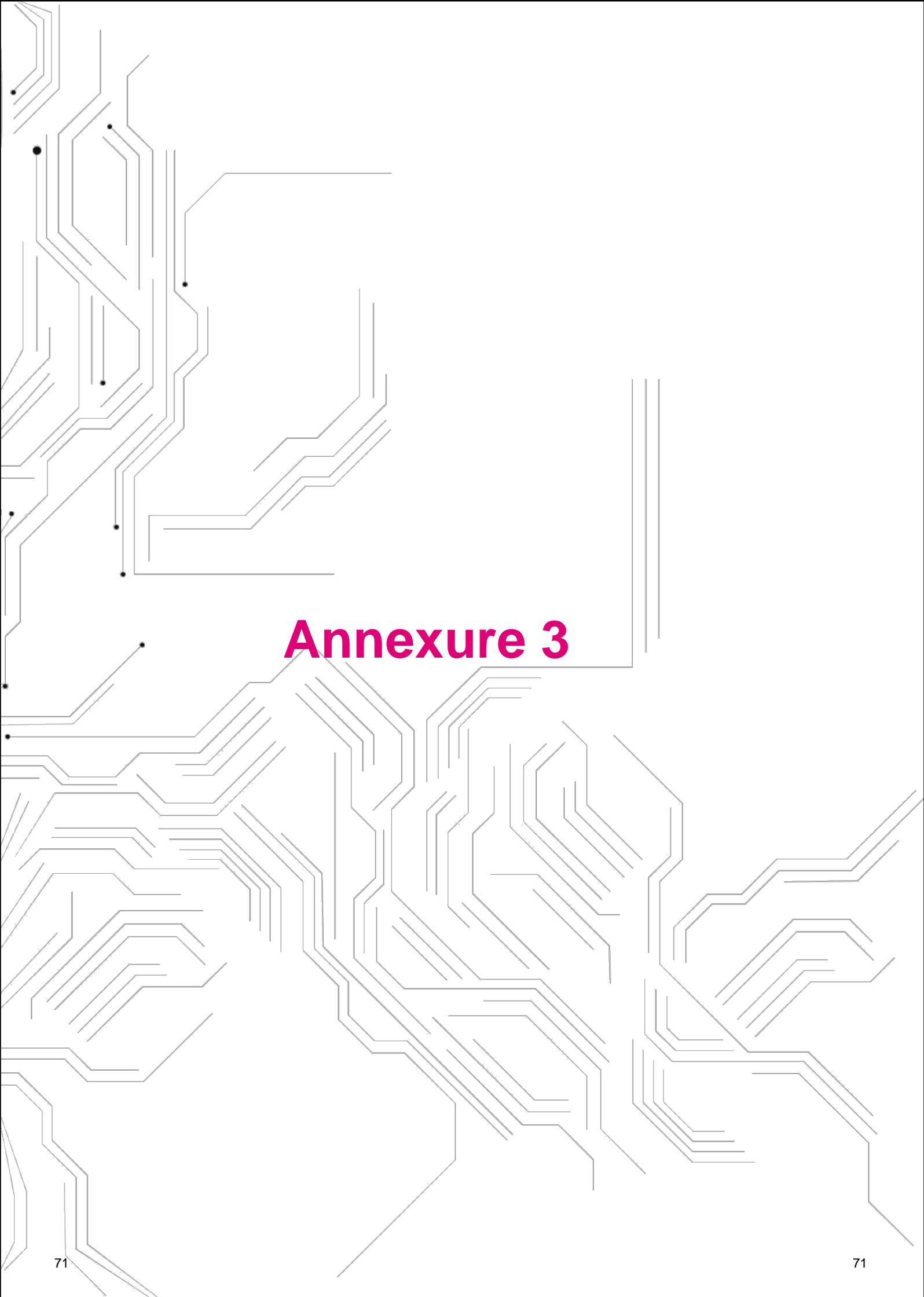
ion (AMN) appeals

solidarity of the Zeliangrong people living in Assam, Manipur and Nagaland, it said that the ZU (AMN) was... The release said that there is a difference between...



ই-বেইটিকি অমাঙবশিং খঙহনপ্ৰে





Annexure 3

Training of Trainers' Workshop held from February 16-18, 2017 at NIESBUD, Noida

Event Report

Under MeitY's "Awareness Programme on Environmental Hazards of Electronic waste" MAIT organised a Training of Trainers Workshop during 16-18th Feb 2017 at NIESBUD, Noida to train representatives of NGOs, State Pollution Control Boards and IT Departments from the States of 10 cities. A total of 16 trainees participated in the event (Annexure I). The Workshop was inaugurated by Dr. Debashis Dutta, Sr. Director & Group Coordinator, MeitY, who highlighted the importance of creating awareness on e-Waste and the value which can be derived out of it.

The trainers were trained by e-waste experts from Government as well as private sector to bring their knowledge level to latitude at which they can be torch bearers of the MeitY's initiative. The trainees were imparted knowledge on topics such as e-Waste rules 2016, dismantling and recycling practices, challenges in e-Waste management, sustainable lifestyle and reduction of carbon footprint (More details available in Annexure II).

The trainees were also taught to use the training manuals that MAIT has developed for conducting workshops and activities to train the stakeholders such as college-going students, resident welfare associations, informal sector, etc. In addition, a special session on using the website www.greene.net.in which is a central repository of all e-Waste related information was also organised. The website has an e-Waste collection centre locator, using which an individual can dispose e-Waste in an environmentally safe and sound manner. The session also covered providing hands-on training to use the greene mobile app, which is available for both Android and iOS.

List of Participants

Name	Designation	Organisation	Day 1	Day 2	Day 3
Mr Sunil Kumar Yadav	Secretary	Divya Paryavaran Evam Gram Vikas Sanstha	P	P	P
Mr Ajay Sharma	Regional Officer	UPPCB	P		
Mr Vijay	Assistant Environment Engineer	UPPCB	P	P	P
Mr Ajei Kumar Singh	Managing Director & CEO	Sai Institute of Rural Development	P	P	P
Dr A J Kashyap	President	Environ	P		P
Mr N Jha	Managing Director	Institute of Environment and Eco Development	P	P	P
Mr Saim Malik		DISHA	P	P	P
Ms. Pinki Kumari		BLKS	P	P	P
Mr Debabrata Mahant		CCWD	P	P	P
Dr D K Behera	Sr. Environment Engineer	Orissa Pollution Control Board		P	P
Mr Wangkhorakpam Nambi Singh		Institute of Social and Rural Development	P	P	P
Mr Lupeeli	Informatics Officer	Information Technology Department, Government of Manipur	P	P	P
Mr Mangesh Kumar Manikar		M P Vigyan Sabha	P	P	P
Dr Mohan Grop	Scientist-C	Goa Pollution Control Board			P
Mrs Nandan Prabhudessai	Jr. Environment Engineer	Goa Pollution Control Board			P

Mrs Chandra Prabha Bhatia	Teacher	Kendriya Vidyalaya	P	P	P
Mr Krishna Kumar	Secretary	Amal Village Welfare Society	P	P	P

Representatives from MeitY

Chief Guest: Dr Debashis Dutta, Sr. Director & Group Coordinator
 Ms. Priyanka Porwal, Sr. Project Associate

Representatives from MAIT

Mr Sanjay Singh, Dy. Director
 Mr Tushar Verma, Dy. Director
 Mr Subhash Chand, Asst. Executive

Representatives from NASSCOM

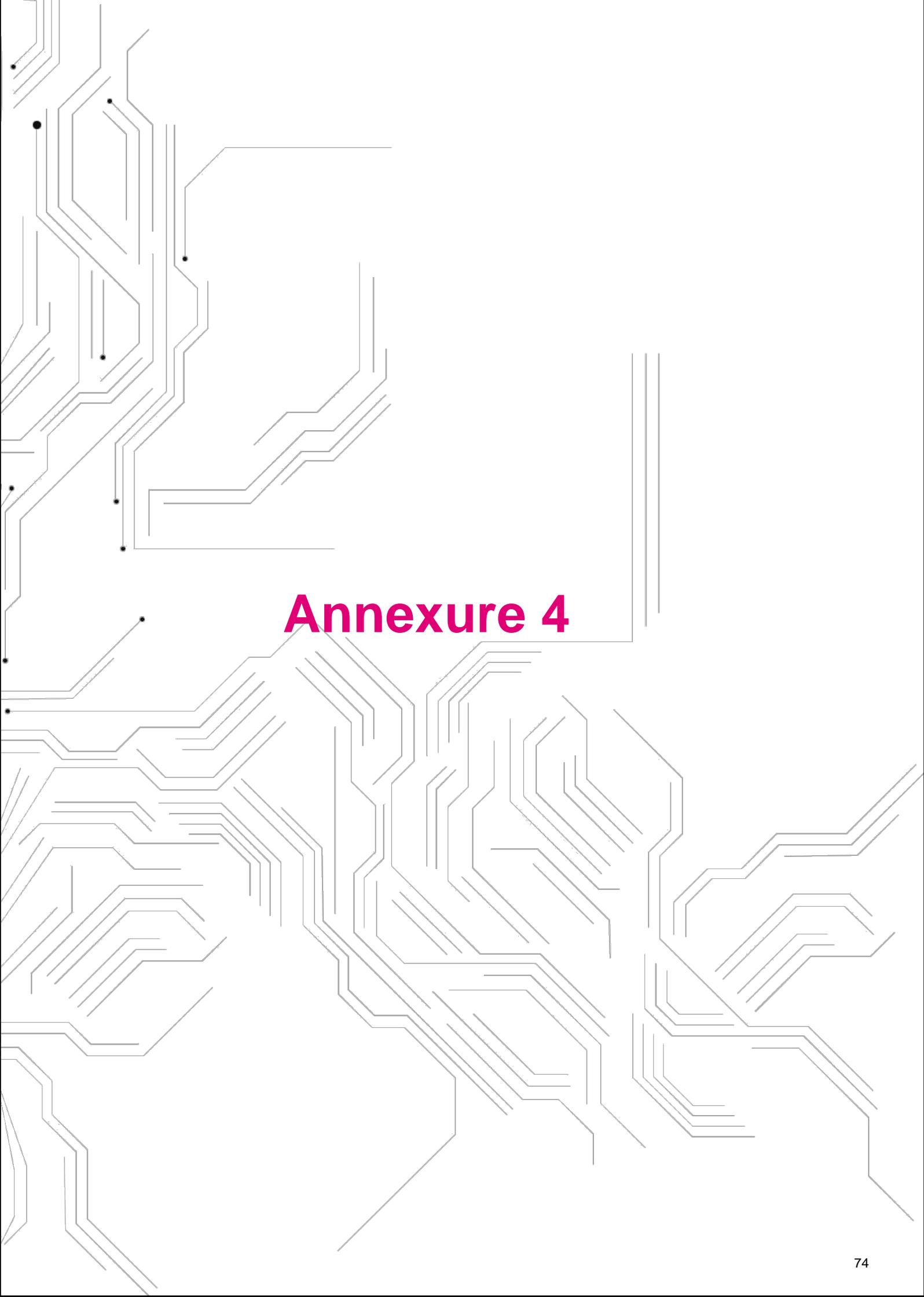
Ms. Rajalakshmi, Dy. General Manager
 Mr Sandipan Sarangi, Asst. Manager

Representatives from CEAMA

Mr Rohit Singh, Manager
 Ms Surbhi Kansal, Intern

List of Attendees of TOT program held on 16.18 feb

Sl. No.	Name	Designation	Organization	Address	Attendance	Participation	Signature
1	Mr. Sanjay Singh	Dy. Director	MAIT	...	P	P	[Signature]
2	Mr. Tushar Verma	Dy. Director	MAIT	...	P	P	[Signature]
3	Mr. Subhash Chand	Asst. Executive	MAIT	...	P	P	[Signature]
4	Dr. Debashis Dutta	Sr. Director & Group Coordinator	MeitY	...	P	P	[Signature]
5	Ms. Priyanka Porwal	Sr. Project Associate	MeitY	...	P	P	[Signature]
6	Ms. Rajalakshmi	Dy. General Manager	NASSCOM	...	P	P	[Signature]
7	Mr. Sandipan Sarangi	Asst. Manager	NASSCOM	...	P	P	[Signature]
8	Mr. Rohit Singh	Manager	CEAMA	...	P	P	[Signature]
9	Ms. Surbhi Kansal	Intern	CEAMA	...	P	P	[Signature]



Annexure 4

Background

The Ministry of Electronics and Information Technology (MeitY) in partnership with NASSCOM Foundation, MAIT & CEAMA has embarked upon an Awareness Programme on Environmental Hazards of Electronic Waste under the 'Digital India Initiative'.

The campaign aims to enhance awareness amongst stakeholders involved in e-waste management in 10 urban areas thereby, encouraging environmentally sound recycling through collective effort of all relevant stakeholders in the e-waste value chain. The 10 cities are Bhubaneswar, Guwahati, Imphal, Indore, Kolkata, Moradabad, Panjim, Patna, Pondicherry and Ranchi.

The Goa Carnival was an opportunity seized at the right moment, thus initiating the implementation phase on ground, in the project. NASSCOM Foundation took the lead to present a tableau on eWaste at the Goa Carnival. The carnival attracts over 25000 people every year. The Goa State Pollution Control Board confirmed that it was the first time in the history of the Goa Carnival that a tableau on eWaste management was presented.

The event was held from 25th – 28th February across Panaji, Margao, Vasco. In addition to the above, we also ensured awareness in Miramar- Campala – KTC Bus Stand area around Panaji.

Objective:

Raising awareness on a broad range of target audience covered under the scope of the project; school- college children/ Youth, Bulk Consumers – Residential Localities, Manufacturers – Dealers and Informal Sector.

Dates: 25th -28th February

Location: Panaji, Vasco, Margao, Samba Square, Miramar – Campala – KTC Bus stand.

Process & Activity

Post the completion of the multi-stakeholder workshops, NASSCOM Foundation has been working closely with state government officials and participants. On 23rd February 2017, NASSCOM Foundation met the Principal Secretary and other senior representatives from various Govt. Departments to discuss the next steps in the project.

Post meeting discussions led to a suggestion - to put up a tableau in the carnival - by Mr. Sanjeev Joglekar, Sr. Environment Engineer, Goa State Pollution Control Board (GSPCB) With a turnaround time of 24 hours, the Foundation co-ordinated with the agency recommended by GSPCB and readied the Tableau on eWaste management.

Necessary written permissions from Mr. Surendra Furtado, Mayor, Panjim and Mr. Dipak Desai, Commissioner, Corporation of City of Panjim were sought for their approval and support to the Program. Requests to the Commissioner and Mayor were made to waive off the sponsorship fee of Rs. 25000.

The Foundation team also identified a local resource, Mr. Sushant Figuerido an independent consultant known in the Goa environment project circle to support on- ground activities.

The Tableau (images annexed) was lined up in the carnival from 12:30 pm – 9:00 pm and covered over 7500 people each day.

The content displayed on screen included video on eWaste, Prime Ministers address during the 25th Anniversary Celebrations of NASSCOM, Posters on eWaste, GreenE logo. Public announcements were made on downloading GreenE app. Volunteers interacted with the general public on eWaste, safe disposal and citizen responsibility on eWaste.

Prominent emcee and radio jockey, Mr. Jeffrey Miguel and several other individuals stopped by to interact with the team. We have also received proposals on collaboration to socialize the awareness campaign through private radio stations. Since the event was at a very large scale, it was impossible to document floating population as the carnival team was constantly on a move. On the social media front, 32 messages were compiled and tweeted. These included three videos.

In order to ensure documentation of the activities, interviews with Mr. Joglekar, Sr. Env't Engr and Mr. Dipak Desai, Commissioner, Corporation of City of Panjim was conducted to capture their perspectives for the project.



Images of the carnival - Main launch Day at Panjim, Carnival at Vasco, Images from Margao, Carnival at Samba Square



Aerial View at Vasco, Curious Visitors, Close up of Tableau GreenE

Print Media Coverage

Sunday livegoan.net **THE GOAN** GOA'S LEADING NEWSPAPER

There's an excellent exhibition on Christian art by Nazareth Frazee in Old Goa

A Carnival with a difference

A unique carnival, dedicated to creating awareness about electronic waste, was celebrated at four locations of Goa carnival this year. The team behind the initiative reached out to the Goan public

What is the idea? The idea is to create awareness about electronic waste and its disposal. The carnival is a platform for people to learn about the dangers of e-waste and how to dispose of it properly. It also features a quiz and a contest to engage the public.

What is the objective? The objective is to educate the public about the hazards of e-waste and encourage them to recycle it. The carnival is a part of a larger initiative to manage e-waste in Goa.

What is the impact? The carnival has reached out to a large number of people, creating awareness about e-waste management. It has also encouraged people to recycle their e-waste.

Rajalakshmi @rvidhya19 · Feb 20

Jeffrey Manuel, popular emcee from #Goa poses and stops by with @Gol_MeitY @Follow_GreenE @ShrikantNF @mait_in @gautammehra01 @Sandipan

The Navhind Times You Tube / BeingIndian See something funny. See something new.

Part of pilot project, Panaji has no e-waste records

By **NT NETWORK** | February 28, 2017 | 14:56:00

PANAJI - Although a pilot project is underway in Goa to manage e-waste, there are no records available as of now of e-waste generated in the city. So far, the Goa State Pollution Control Board (GSPCB) neither has any records nor does it monitor to check the e-waste generated and disposed by residential, commercial establishments and the government sector.

Institutions and individuals have been disposing e-waste in whichever way it suits them to get rid of such waste. Even government departments do not follow any standard in e-waste disposal.

According to the GSPCB figures, it only shows the e-waste generated by manufacturing units which amounts to 90 tonnes per annum though it has been estimated to be around 500 tonnes of e-waste generated, if the residential and commercial establishments are also considered.

The GSPCB has now started to implement new e-waste (Management) Rules 2016, which mandate consumers, bulk consumers like government institutions, banks, educational institutions, healthcare facilities and manufacturing units to maintain records of e-waste generated by them and make available the same to the GSPCB every year. The GSPCB has further asked authorised dealers to identify the collector centres to store the e-waste and directed them to file annual returns.

The department of science, technology and environment has joined hands with National Association of Software and Services Companies (NASSCOM) foundation, Manufacturers' Association for Information Technology (MAIT), Goa State Pollution Control Board (GSPCB) and local NGOs, as part of an initiative taken up by the Ministry of Electronics and Information Technology (MeitY) to embark upon an awareness programme in ten urban sites including Panaji, an environmental hazards of electronic waste and its recycling under the Digital India initiative.

The three month-long pilot project in the city starting from first week of March on e-waste collection, segregation and transportation from households and offices for recycling will represent the main focus of a statewide project to tackle e-waste, which aims to develop a blueprint for electronic waste management across the state.

The pilot project will be launched in the city wherein some special containers will be placed at strategic locations across the city where citizens can dispose off their obsolete electronic waste such as old mobile phones, computers batteries and other consumer electronic equipment. "Once collected, the waste will be taken by NASSCOM to the facilities outside the state that recycle these equipment components," an official said.

The department of science, technology and environment, in cooperation with NASSCOM will conduct an awareness programme before starting with the pilot project from the next week.

Please like & share

Rajalakshmi @rvidhya19 · Feb 27

We are told there are 5000 ppl at #VivaCarnival #Goa #eWaste @Gol_MeitY @NASSCOMfdn @mait_in CEAMA @anwarzs @gautammehra01 @SandipanSarangi



CEAMA

CITY
REPORTS

Dealer

01

Bhubaneswar

An awareness programme on Environmental Hazards of Electronic Waste under the aegis of 'Digital India Initiative' for schools in the city of Indore was organised by Consumer Electronics and Appliances Manufacturers Association (CEAMA), an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT

The awareness event is part of the sensitisation program to convey the fundamental knowledge to the dealers associated with electrical and electronics instruments about e-Waste, mushrooming ecological and environmental concerns as a result of erroneous methods of disposal techniques being followed for such waste. The programme elegantly spoke on the distinct steps of recycling and proper disposal of e-waste at myriad levels and the basic responsibilities that have to be shouldered by associated dealers.

The awareness event was attended by around 60 dealers at HHI, Bhubaneswar.

The event began with the pleasant welcome address by **Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA**. He briefed the participants about the awareness program's inception by Honourable Prime Minister of India Shri Narendra Modi Ji at an event of NASSCOM where he had suggested considering e-Waste in line with ordinary garbage but very importantly keeping in mind the very diverse methods of disposal of the two.

Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA gave a very well-informed presentation on e-Waste and its administration for dealers. He spelt out the purpose of the awareness event and articulated on the same for the broad and insightful comprehension of what constitutes e-Waste, rising menace related with e-Waste in India, the important rules governing e-Waste and to have a discussion about and come to a final conclusion on the accountability of dealers on promoting proper e-Waste management and

Awareness Programme on Environmental Hazards of Electronic Waste

Under "Digital India Initiative"

28th July 2017, HHI, Bhubaneswar

its streamlining.

Proceeding on the event Mr. Singh explained e-Waste consists of the wastes generated from electronic and electrical devices of our daily use like computers, mobile phones, air conditioners and many such things. He emphasized on the rejected parts of electronic goods constituting a considerable fraction of e-Waste which not only constitutes of the end product we get after a device completed its life period.

He threw light about the details to the attendees with couple of pictures of how the discarded e-Waste reach the landfills and pose hazardous consequences to the human health and the overall damaging ecological effect it threatens the environment with. The statistics of the global e-waste production has been recorded at a humungous 16MMT to which India's contribution stands at 1.7MMT which makes it the 5th highest producer of e-Waste as off now. Mr Rohit informed about the increasing use of appliances and gadgets at the household and various other level constituting the largest portion of e-Waste in India.

Among the top ten cities generating e-Waste, Maharashtra ranks first followed by Tamil Nadu, Andhra Pradesh, Uttar Pradesh, West Bengal, Delhi, Gujarat, Karnataka and Madhya Pradesh. He also explained the risk factors associated with the e-Waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health if not handled in a scientific manner.

Quoting some health hazards which arise out of these hazardous substances he said that lead, mercury and cadmium can cause irreversible damage to the central and peripheral nervous systems, effect brain development of children and cause damage to the respiratory system, kidneys and the reproductive system. Chromium has the potential to easily pass through cell membranes and is then absorbed, leading to various toxic effects. Some studies have shown that short-term exposure to beryllium, barium,

and BFRs can cause disastrous health implications such as cancer. Printed Circuit Board (PCB) commonly called as motherboard, contains complex elements and needs a very careful handling for recovery of precious metals and for minimizing impact on the environment during recovery processes.

Mr Singh detailed on the current practices being followed at different levels of handling the e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government.

He explained how there are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is the domination of the informal sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

A detailed study of unsafe and unorganized practices being followed at the lowest level was presented with the aid of pictures of unscientific and unsafe practices being followed by the unorganized sector. Dearth of knowledge among population, predominantly among women and children is a serious cause of concern. The open dumping of e-Waste leading to the percolation of poisonous waste into the soil and eventually entering the food chain is a serious cause of concern and urgent actions have to be taken in order to mitigate the challenges. E-Waste (Management and Handling) Rules, 2016 notified in March 23, 2016 became effective from October 1, 2016 which mandates the accountability of dealers for handling of e-Waste, Mr. Singh said.

Stress was laid on the responsibilities of the dealers under the current rules and how they can play an active role in channelization and proper management of e-Waste. He said that education on the subject is very crucial for the dealers as they are an interface between the producers and the consumers.

He further emphasized on creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has become e-Waste, developing environmentally safe and sound recycling practices, making producers responsible for setting up a system of e-waste collection/ take-back for their own brands, channelizing the collections to registered recyclers.

Assigning responsibilities to urban local bodies for stray products and for waste found mixed with Municipal Solid Waste. Reducing hazardous substances in electrical and electronic components A thorough study and breakdown of the e-Waste at different level made the dealers more practically aware about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding. Average life span of different electrical and electronic instruments was presented to the participants. The responsibility of dealers at various levels was explained in complete aspect to provide them with the insights of step-by step handling of the e-Waste.



Mr Singh pressed on the accountability of dealers to collect and channelize e-waste generated from 'end-of-life' products to authorized recyclers. They may use numerous methods/schemes to channelize e-Waste. These could be incentivizing return of e-waste by consumers/bulk consumers whether through buy-back arrangements or take-back systems or exchange scheme for channelization of e-waste.

He also asked the dealers to reach back to producers seeking details of the e-Waste and its collection. Dealers were informed that most of the brands have provided helpdesk, toll-free telephone numbers or helpline numbers on their website which can be used by any stakeholder to facilitate return of end-of-life electrical and electronic equipment. Dealers must create awareness through media, posters, setting up collection bins or by any other means of communication.

He described to the dealers the important steps to be followed for shouldering the responsibility of streamlining the e-Waste management. They were advised to prepare their employees who directly deal with customers to make them aware of the e-Waste scenario and aware them about the correct disposal methods to be followed. He asked the dealers to educate themselves more on this subject and then only they can further educate the customers. He also requested the brands present during the program to equip their trade partners with the knowledge of e- Waste.

He stressed that obsolete products should be sent to registered re-cyclers only and the details of collection center, authorized recyclers and more such things can be sourced from the website of greene and CPCB.



Mr Singh detailed on the current practices being followed at different levels of handling the e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government.

Question & Answer Session

The awareness event concluded with a candid round of queries by the dealers. A common ground of inquisitiveness was seen regarding the correct method of e-Waste collection and how the different stakeholders can be made to participate at each level of the process.

A pertinent question regarding the segregation of different elements of the e-Waste was posed. A detailed discussion followed on how the onus of e-Waste management lies on dealers to a very large extent was explained. The dealers were motivated to take on the responsibility and a transparent accountability to tackle the issue of rising e-Waste in the country with a spirit of trailblazing and setting examples for others to follow.



Snapshot:



Schools

1.1

Bhubaneswar

Consumer Electronics and Appliances Manufacturers Association (CEAMA), established in the year 1978 an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT had organised an awareness programme on Environmental Hazards of Electronic Waste under the aegis of 'Digital India Initiative' for schools in the city of Bhubaneswar.

The awareness event was attended by a gathering of around 700 students and teachers held at Bhanja Kala Mandap from following four schools:



1. BJEM School
2. Shree Krishna International School
3. Mother's Public School
4. Bharti Vidyamandir

Agenda:

Awareness Program on Environmental Hazards of Electronic Waste" under the 'Digital India Initiative on 28th July, 2017, Bhubaneswar PROGRAMME

The awareness event is part of the sensitisation program to inform the teachers, students and parents about e-waste, ever increasing environmental impacts as a result of incorrect disposal of e-Waste. The programme clarified on the discrete steps of recycling and correct disposal of e-waste at different levels.

First Session (9.00 AM-11.00 AM)

Sr.No	Session timing	Session topic
01	0900 – 0915	Registration and distribution of posters Inaugural session
02	0915 – 0920	Welcome address by Mr. Rohit Singh, Manager , Corporate Affairs, Planning & Strategy, CEAMA
03	0920 – 1030	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Singh, Manager , Corporate Affairs, Planning & Strategy, CEAMA
04	1035- 1100	Greene Talk on e- Waste Management
05	1100 - 1115	Distribution of e-Waste Charter and Certificates
06	1115 – 1125	Vote of thanks by Rohit Kumar Singh, Manager, CEAMA
07	1125 onwards	E waste Collection & Distribution of refreshments

The second session was conducted between 11.30 AM and 1.30 PM followed the same agenda as above.

The event began with the warm welcome address by Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA. He briefed the participants about the awareness program's inception by Honourable Prime Minister of India Shri Narendra Modi Ji at an event of NASSCOM where he had suggested considering e-Waste in line with ordinary garbage but very importantly keeping in mind the very diverse methods of disposal of the two.

Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA delivered a presentation on e-Waste and its management. The very reason of conducting the programme was described. He detailed on the same for the explicit understanding of what constitutes e-Waste, swelling risk markers as a consequence of e-Waste on India, the significant laws governing e-Waste and to discuss and arrive to a conclusion on the collective responsibility of schools on encouraging appropriate e-Waste management.

Mr. Singh posed the question of what comprises e-Waste to the audience present to get a better in-depth knowledge of their understanding of the issue and make them aware accordingly.

Furthering the event Mr Singh explained e-Waste consists of the wastes generated from electrical and electronic equipments of our everyday use like computers, mobile phones, air conditioners and many such things. He elaborated that those devices which do not serve the purpose for which they were manufactured then it becomes an e-Waste. Not only the end-product which we get after a device completes its life but also the discards at manufacturing stage are e-Waste.

Mr. Singh unveiled to the gathering with couple of images portraying the discarded e-Waste reaching the landfills and as a result causing serious impacts to the human health and the larger hazardous impact on ecology with which it threatens the environment. The data with the global e-waste production is put at a tumultuous 16MMT in which India contributes about 1.7MMT making it the 5th highest producer of e-Waste.

Ever increasing trends in electrical and electronic device consumption in the form of cell phones, TV, refrigerator was found to be the leading cause of e-Waste generation. Mr. Rohit elaborated about the risk factors linked with e-Waste by listing out the various elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they cause at different levels to the environment and essentially to human health.

He articulated about refrigerators, air conditioners and washing machines primarily contains steel, plastics and copper wiring, along with potentially harmful substances such as chlorofluorocarbon and hydrochlorofluorocarbon (CFCs/HCFC) gases which have high ozone depletion probability.

Mr. Singh presented the students with handful of pictures to create a direct impact on how informal and unsafe practices such as burning and acid bathing of e-Waste are creating and adverse impact on the environment. He demystified the current practices being followed by informal sector. Despite having the fundamental right to stay away from hazardous work places under our constitution children is still being engulfed in the unsafe practices. A statistical figure of each elements percolating and damaging the ground water in Delhi was also conveyed as a reference.



E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government. There are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes.

A major issue is the dominance of the unorganized sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

Mr. Rohit explained about the methods by which e-Waste can be better managed and channelized by creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has thus become e-Waste develop environmentally safe and sound recycling practices. Making producers responsible to setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. He convinced the gathering on reducing hazardous substances in electrical and electronic components.

A comprehensive and well articulated discussion on the responsibilities that students can and should shoulder to streamline the e-Waste management was conducted at the end. Students were instructed how at school level and at home they can become the flag bearers of a greener tomorrow.

GreenE Talk by Students

A GreenE talk was conducted in which students participated by sharing about their understanding of the e-Waste and its management and took the determination to control the escalating crisis of incorrect disposal of e-Waste at their respective level. There were a total of four participants from BJEM School and Mother's Public school, two from each.

Shweta

Vijita Das

Shilpa Priyadarshini

Adyasha Biswal

The students briefly spoke about their basic knowledge about the issues related to e-Waste and its handling. They outlined to their understanding what comprises of such waste by giving examples of the regularly used electrical and electronic appliances that have become a part and parcel of our lives. The students urged for the pressing need of minimising the use of electronic gadgets. The rising dependence on such products and the unnecessary piling up of obsolete devices is adding on to the e-Waste burden on our country. Students expressed their concerns over the lack of knowledge among citizens regarding the implications of unorganised dumping of e-Waste.

The students explained about the processes of dismantling and disposing of electronic waste in developing countries which is leading to a number of environmental impacts.

Liquid and atmospheric releases end up in bodies of water, groundwater, soil, and air and therefore in land and sea animals – both domesticated and wild, in crops eaten by both animals and human, and in drinking water. The hazardous effect on health that such deposits are causing is not only appalling but a matter of tremendous concern.

The participants took a futuristic pledge to creating a ripple effect by propagating what they had gained from the awareness program.



Distribution of e-Waste Charter to Schools:

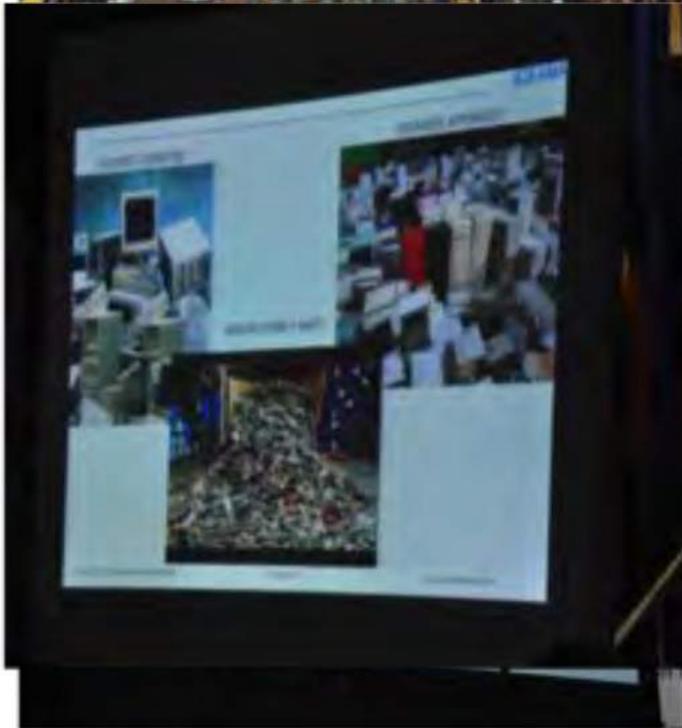
e- Waste charter along with certificates was presented to the schools by Mr. Rohit Kumar Singh of CEAMA



Distribution of Participation Gift to Student's (Greene Talk):



Snapshot:



Dealer

02

Guwahati

Awareness Programme on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative’

Guwahati, 24th May 2017

A workshop to create awareness of environmental hazards of electronic waste among electronic and appliance dealers was held at the Hotel Lily, Guwahati on 24th of May 2017. The workshop was conducted by Consumer Electronics and Appliance Manufacturers’ Association (CEAMA), on behalf of Ministry of Electronics and Information Technology. It is a part of a series of initiatives on e-Waste under Digital India.



Agenda:

<p>Awareness Program on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative on 24th May, 2017, The Lily Hotel, G.S. Road, Six Mile, Khanapara, Opp. Directorate of Agriculture Office, Guwahati</p>	
Program	
06:30 PM - 07:00 PM	Registration
07:00 PM - 7:05 PM	Welcome Address Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy CEAMA
07:05 PM - 07:15 PM	Special Address By Mr. Pawan Aggarwala, MD&CEO, Datamation Services
07:15 PM - 07:25 PM	Address By Guest of Honour Ms. Indira (Joint secretary, Information Technology Department Assam)
07:25 PM - 08:00 PM	An Introduction to E waste and its Management, Presentation by Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA
08:00 PM - 08:10 PM	Q&A
08:10 PM - 08:20 PM	Vote of thanks By Shri Trideep Talukder, President IT association
08:30 PM	Dinner with cocktail

Address By :

Mr. Pawan Aggarwala, MD & CEO Datamation Services was the Special Guest for the Program. He said that the initiative taken by CEAMA in association with MeitY to aware the dealers in the country on E waste is a commendable step. He emphasized on the hazardous content present in these products are harmful for the health of people and for the whole ecosystem in large. He said that sensitization of dealers towards e-waste is crucial and urged the dealers present during the program to take an endeavor in proper management of e-waste in the city of Guwahati.

He further emphasized that there lies a great responsibility on the producers to educate their dealers on this critical issue of e-waste and its management.

He said that there is an urgent need to create awareness and CEAMA took this initiative at the right time. He requested the participants to create awareness and cleanliness in the city.

as a crucial stakeholder in educating their trade partners, retailers, consumers and other stakeholders regarding the impact of e-waste.

He further shared his thoughts regarding the proper management and disposal of e-waste and said that the e-waste should be handed over to an authorized recycler only. He further informed that the dealers can seek the details of authorized recyclers from the CPCB website also they can visit the Greene website which has been developed by Ministry of IT, Government of India to learn more about the safe disposal of e-waste.

He informed that it is estimated that India would become the biggest dumping ground of e-waste by 2020 and therefore it is crucial at this juncture to ensure proper management and safe disposal of e-waste in the country.



Address By Guest of Honour

Ms. Indra, IT Joint secretary, Information Technology Department Assam was invited to be the Guest of Honour but was unable to be present due to an emergency meeting in her Department.



Presentation by CEAMA

Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning and Strategy, CEAMA made a power point presentation elucidating the responsibilities of dealers towards e-Waste, in addition to highlighting the hazards of e-Waste on environment.

He informed the dealers present during the occasion about the responsibility which they have to play in channelization of e-waste. He also made a mention that dealers can act



Snapshot of the program:



Media Coverage:



Vote for Thanks:

The vote of thanks was proposed by **Mr. T. C Talukdar, President of IT Association**. He said that e-waste is an important subject which needs a crucial attention, he told that the dealers fraternity is not much aware about the e-waste and the information provided by CEAMA on e-waste and its management was very informative.

He further urged the dealers that they should take this subject seriously and should work towards minimizing the generation of e-waste. He further told that the dealers can act as a nodal point in educating the retailers and the customers regarding the hazardous effect of e-waste and its disposal.



Schools 2.1

Guwahati

Awareness Raising Programme on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative’

24th May 2017, Wednesday, Guwahati

Consumer Electronics and Appliances Manufacturers Association (CEAMA), an all-India body representing the consumer electronics and home appliances industry, in partnership with MeitY, NASSCOM Foundation and MAIT, had organized an awareness programme on Environmental Hazards of Electronic Waste under the ‘Digital India Initiative’ for schools in the city of Guwahati.

The Awareness programme is an initiative to sensitize and impart knowledge among the students, teachers and parents about proper management, disposal and channelization of E waste, thereby reducing the impact of hazardous substances on the environment and encouraging environmentally sound recycling through collective efforts of all the stakeholders involved in the entire E waste value chain.

The program was held at Rabindra Bhawan and was attended by around 1250 students and teachers (in 2 batches) from 15 different schools of Guwahati, viz.

DPS-Guwahati
Royal Global School
Maria’s Public School
Maharishi Vidya Mandir IV

Maharishi Vidya Mandir I
Maharishi Vidya Mandir III
Gurukul Grammar Senior Secondary School
SBOA School
NPS International
Sarla Birla Gyan Jyoti
South Point School
Sudershan Public School
St. Stephen’s School
Brahmaputra Valley English Academy and
St. Mary’s School

Shri Vinod Seshan, IAS, Deputy Commissioner, Kamrup - Rural was the chief guest for the first session and Prof. Dr. Dhruva Jyoti Saikia, Vice Chancellor Cotton College State University, Guwahati was the chief guest for the second session. Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy CEAMA, Mrs. Mita Nangia Goswami, Eco Roots Foundation & Mrs. Archita Baruah Bhattacharyya WWF-India were present during the program.



Agenda:

First Session (9.00 AM-11.00 AM)

SESSION TIMING	SESSION TOPIC
0900 – 0915	Registration and distribution of posters Inaugural session
0915 – 0920	Welcome address by <u>Mita Nangia Goswami</u> , Sr. Advisor Eco Roots Foundation & WWF-India
0920– 0925	Special address by <u>Archita Baruah Bhattacharyya</u> , Coordinator – Assam & AP State Office, WWF-India
0925 – 0925	Address By Chief Guest : <u>Mr. Vinod Seshan</u> , IAS, Dy. Commissioner Kamrup – Rural, Assam
0925 – 0950	Session An Introduction to E waste and its Management, Presentation by <u>Mr. Rohit Singh</u> , Manager , Corporate Affairs, Planning & Strategy, CEAMA
0950 - 1000.	Q&A
1000- 1030	JAM Session (Just A Minute)- An extempore competition on E-waste (2 students/school) 16 students from 8 schools
1030 - 1035	Vote of thanks by <u>Archita Baruah Bhattacharyya</u>
1035 onwards	E waste Collection & Distribution of refreshments

The second session was conducted between 11.00 AM and 1.00 PM followed the same agenda as above.



Rabindra Bhawan packed with enthusiastic students before the commencement

Registration of event:

Both the sessions began with the formal registration process, followed by the Inaugural Session.



Welcome Address:

The welcome address was delivered by Ms. Mita Nangia Goswami, Sr. Advisor, Eco Roots Foundation & WWF-India. While introducing the awareness program to the students she stressed not to discard e-waste like any other waste; rather they should opt for formal recycling for the electronic waste.

Special Address:

Mrs. Archita Baruah Bhattacharyya in her special address stressed upon the amount of e-Waste generated in Guwahati and its improper management. She pointed out the importance of proper management of electronic waste as it can be very detrimental for the environment. She also appreciated the endeavor taken by CEAMA and thanked the teachers and students for showing keen interest on this burning topic by participating in large numbers. She also thanked the students for bringing e-Waste to the venue.

Address by Chief Guest (1st Session)

For the first session, Mr. Vinod Seshan, IAS, Deputy Commissioner- Kamrup (Rural), was the Chief Guest. He cited the necessity of e-Waste disposal and the oblivious state of affairs in which the inhabitants of Guwahati people live in. Shri Seshan emphasized that hazardous content present in electronic products are harmful for the health of people and for the whole ecosystem at large. He also added that while unsafe handling and dismantling of products is enabling peoples' livelihoods, at the same time hazardous substances that get released during the extraction process are being dumped into rivers and land that results in a threat to the environment. He said that there is an urgent need to create awareness on e-Waste and appreciated CEAMA for taking the initiative. He also asked the student community to create awareness among the public to keep the city clean.



Address by Chief Guest (2nd Session)

For the second session, Prof. (Dr.) Dhruba Jyoti Saikia, Vice Chancellor of CCSU Guwahati was invited to share his thoughts on e-Waste. In his speech, Dr. Saikia said that e-Waste is an important subject which needs attention. He told the students that they are the budding future and it is their responsibility to save the environment in which they are residing. Dr. Saikia also asked the students to become responsible consumers that will help in generating lesser quantity of all forms of waste, including plastic and e-Waste. He applauded the initiative of CEAMA and WWF-India in conducting such a program in Guwahati.



Address by CEAMA

Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning and Strategy, CEAMA made a presentation on Introduction to E-waste and its Management. In his presentation Mr. Singh laid stress upon the various health hazards of electronic waste and the significance of its management. It is estimated that India produces 1.7 million tons of e-waste whose is expected to increase significantly in the future. He said that one should adopt proper disposal and recycling methods to channelize e-waste. He also made a mention that illegal and unsafe extraction of e-Waste is also known to occur due to presence of precious metals like platinum, gold, silver, etc. in it. He informed the gathering that e-Waste should not be discarded with solid waste and should be handed over to authorized recyclers once the product has reached its end of life. He further informed that there are more than 150 authorized e-Waste handlers in the country and one can find the details of the nearest recycler present in the city by visiting the CPCB and greene website. He elucidated the responsibilities of students and bulk consumers besides highlighting the hazards of e-Waste on the environment. He also mentioned that students can be ambassadors of e-Waste by educating society regarding the evil impact of bad e-Waste practices.

of e-Waste by educating society regarding the evil impact of bad e-Waste practices. He made a mention that India would become the biggest dumping ground of e-Waste by 2020 and therefore it is crucial to ensure proper management and safe disposal of e-Waste in the country.



Felicitation of Chief Guests



Questions & Answers:

After the presentation, there was a Question & Answer session where students interacted with Mr. Rohit Kumar Singh and during which he addressed queries raised by the participants.



'Just a Minute' (JaM)

After the Q & A session there was a "Just a Minute" session including an Extempore Speech Competition on e-Waste, where 2 students from each school participated. There were 2 categories for extempore speech. The topics for both the categories were:

The JaM session took place in two rounds

JaM Session - First Round

8 schools participated in Round 1 with approximately 638 participants in total. The 8 schools included;

- Maria's Public School
- Delhi Public School- Guwahati
- Royal Global School
- Maharishi Vidya Mandir- IV
- Gurukul Grammar Senior Secondary School
- Maharishi Vidya Mandir- III
- SBOA Public School
- NPS International School

The winners of Category 1 (Class 7-9) were:

- 1st Smriti Sil (Class 9), Maharishi Vidya Mandir Public School-III
- 2nd Taposhree Baruah (Class9), Maharishi Vidya Mandir Senior Secondary School-IV
- 3rd Krishti Kashyap (Class 8), Delhi Public School

The winners of Category 2 (Class 10-12) were:

- 1st Darshana Deka (Class 12), Maria's Public school
- 2nd Dhristhi Bezbaruah (Class 10), Delhi Public School
- 3rd Priyadarshani Rabha (Class 12), Maharishi Vidya Mandir Public school-III

Category 1 (Class 7 to 9)	Category 2 (Class 10-12)
Reduce and recycle	Electronic Devices
Mobile Phone	Soil contaminations
Batteries	Authorized Collection Centre's
e-Waste	Land Fills
Safe disposal of E-waste	e-waste*- a global challenge
Heavy Metals	Scrap Dealers
e-Waste* and you	Handling of E-waste
Scrap Dealers	E-waste and public health

JaM Session - Second Round

In the second slot, 7 schools participated with approximately 595 participants in total. The 7 schools included;

South Point School
Maharishi Vidya Mandir- I
Suderashan Public School
Sarala Birla Gyan Jyoti School
St. Stephen's School
Brahmaputra Valley English Academy
St. Mary's School

The winners of Category 1 (Class 7-9) were:

1st Irfan Hussain (Class-8), Suderashan Public School
2nd Ayanangshu Das Majumdar (Class-9), Maharishi Vidya Mandir, I Silpukhuri
3rd Digangana Kashyap (Class- 7), St. Mary's Higher Secondary School

The winners of Category 2 (Class 10-12) were:

1st Dheeman Dutta (Class-10), St Stephen's School
2nd Riddhiman Barooah (Class-11), Sarla Birla Gyan Jyoti
3rd Arbi Chaliha (Class-10), Suderashan Public School

Declaration of Winners

The winners of the JaM session were presented with certificates and gifts from CEAMA and WWF India.



Distribution of e-Waste Charter to Schools:

e-Waste charter along with certificates were presented to the schools by Mr. Rohit Kumar Singh of CEAMA and representatives from WWF India.

Teachers/Coordinators of all 15 schools receiving E Charter and Certificates

Vote of Thanks

Mrs. Archita Baruah Bhattacharya, Coordinator WWF India, proposed the formal vote of thanks.



Media Interaction and Coverage



Collection Drive

A large quantity of electronic waste brought by the schools were collected and handed over to M/s J. S Pigments, the authorized recycler recommended by Assam Pollution Control Board.



e- Waste Certificate by Recycler:

The Awareness Program had left a great impact in the city of Guwahati and a quantity of 100 kg of e-waste was collected at the end of the program.

E-WASTE MANIFEST		Copy -4 (Green) : By Receiver to Sender
1	Sender's name and mailing address (including phone No.)	: CEAMA : F-4 / 23, 4th Floor, Wave 1st Silver Tower, : Sector - 18 Noida - 201 301 (UP)
2	Sender's authorisation No, if applicable.	:
3	Manifest Document No.	: 407
4	Transporter's Name & Address (including phone No.)	: J S Pigments Pvt Ltd. :
5	Type of Vehicle	: (Truck/ Tanker/ Special Vehicle)
6	Transporter's Registration No.	:
7	Vehicle Registration No.	:
8	Receiver's Name & Address (including phone No.)	: J S Pigments Pvt Ltd. : VIII & PO. Jarura, P.S. Polba, Delhi Road, Hooghly-712138, WB + 91 33 2320 2656
9	Receiver's authorization No, if applicable.	: WBPCB: 026 (Reg)/25-205/2010
10	Description of E-waste (Item, Weight/Numbers)	:
11	Name and stamp of Sender* (Manufacturer or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler):	
	Date: 24-05-2017	Stamp & Signature
12	Transporter Acknowledgement of receipt of E-Wastes.	
	Date: 24-05-2017	Stamp & Signature
13	Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler) certification of receipt of E-waste.	
	Date: 24-05-2017	Stamp & Signature

Dealers 03

Imphal

The lush green city of Imphal, Manipur hosted an awareness programme on Environmental Hazards of Electronic Waste under the aegis of 'Digital India Initiative' for schools in the city of Indore was organised by Consumer Electronics and Appliances Manufacturers Association (CEAMA), an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT

The awareness programme is part of the sensitisation campaign to educate the dealers associated with electrical and electronics instruments about e-waste and it's ever increasing ecological and environmental impact as a result of incorrect procedures of disposal being followed for such waste. The programme detailed on the discrete steps of recycling, refurbishing and the protocols to be followed at different levels for disposal and the overall responsibilities of associated dealers and other stakeholders.

The event witnessed attendance of more than 40 dealers.

Agenda:

SESSION TIMING	SESSION TOPIC
1900 -1930	Registration and distribution of posters
	Inaugural session
1930 -1935	Welcome address by Mr. Rohit Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA
1935 – 2130	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA
2130 onwards	Dinner

Awareness Programme on Environmental Hazards of Electronic Waste Under "Digital India Initiative"

4th July, Imphal

The Classic Hotel Imphal. PROGRAMME



The event started with the warm welcome address by Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning Strategy, CEAMA. He informed the gathering how the programme had been initiated. The idea is to increase awareness and offer opportunities among various stakeholders associated with e-waste management in 10 urban areas thereby, encouraging environmentally friendly techniques of re-cycling through collective efforts of all significant stakeholders in the e-waste value chain.

Shri N. Deben, Additional Director, Department of Information Technology, Government of Manipur

announced about the significance of e-Waste and its management in the present scenario. He conveyed his serious concern over the lack of awareness among consumers, dealers, and other stakeholders and naturally requires utmost attention. He continued that the toxic hazards of the elements associated with e-Waste must be clearly portrayed to each and every individual. Over the last two decades electrical and electronic equipment's have become a part of everyone's lives. He urged the dealers to take on the charge of minimising the generation of e-Waste and further requested the dealers to act as a nodal point in raising awareness among their channel partners regarding the detrimental effects of incorrect e-Waste disposal on environment and consequently on human health.

He appreciated the efforts being put in by CEAMA in raising awareness pan-India at multi levels and particularly making the dealers familiar with the by-laws present associated with e-Waste and the responsibility they must shoulder to streamline its management.



Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA gave well-informed presentation on e-Waste and its proper management for dealers. He explained the goals of the programme and continued the same for the in-depth and insightful understanding of what constitutes e-Waste, escalating risk factors associated with e-Waste in India, the important by-laws governing e-Waste and to discuss about and come to a basic conclusion on the responsibility of dealers on endorsing appropriate e-Waste management.

Furthering with the program he opened about e-Waste and what it consists of, the wastes generated from electronic and electrical devices of our daily use like computers, mobile phones air conditioners and many such things. He emphasized on the rejected parts of electronic goods constituting a considerable fraction of e-Waste which

not only constitutes of the product we get after a device completed its life period.

He presented detailed information to the dealers with some pictures of how the discarded e-Waste is reaching the landfills and posing as a threat to the human health and the overall harmful ecological impact it threatens the environment. The data with the global e-waste production is put at a staggering 16MT to which India's contribution is about 1.7MT making it the 5th highest producer of e-Waste. Mr Singh shared how appliances and gadgets at the household and the IT industry level constitute the largest chunk of e-Waste in India.

Among the top ten cities generating E-waste, Mumbai ranks first followed by Delhi, Bengaluru, Chennai, Kolkata, Ahmedabad, Hyderabad, Pune, Surat and Nagpur. He also explained the risk factors associated with the e-Waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health if not handled in a directed process.

Mr. Singh threw light on the current practices being followed at different levels of handling the e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government. He explained how there are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is the domination of the informal sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

An insightful study of informal practices being practiced at the grassroots level was presented with the aid of pictures of unscientific and unsafe practices being followed by the unorganized sector. Lack of knowledge among population, most particularly women and children is a serious cause of concern. The open dumping of e-Waste leading to the leaching of toxic waste into the soil and consequentially entering the food chain is a lethal cause of concern and serious actions must be taken as soon as possible.

E-Waste (Management and Handling) Rules, 2016 notified in March 23, 2016 became effective from October 1, 2016 mandates the responsibility of dealers for handling of e-Waste

Emphasis was laid on creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has become e-Waste, developing environmentally safe and sound recycling practices, making producers responsible for setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Giving responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. Reducing hazardous substances in electrical and electronic components

An in-depth study and breakup of the e-Waste at different level made the dealers more practically aware about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding. Average life span of different electrical and electronic instruments was provided to the participants. The onus of dealers at various levels was explained in detail to provide them with the insights of step-by step handling of the e-Waste.

In a final note Mr. Singh explained to the dealers the steps to be followed for shouldering the responsibility of streamlining the e-Waste management. They were advised to train their employees who directly deal with customers to make them aware of the e-Waste scenario and aware them about the correct disposal methods to be followed. Old products should be sent to registered recyclers which can be tracked on Central Pollution Control Board (CPCB) website. Joining hands with the brands they deal to speed up e-Waste management.

In the final note Mr. Rohit Kumar Singh gave the vote of thanks to the audience for their cordial presence and gave few points of encouragement for the proper disposal of e-Waste.

Felicitation of Chief Guests

Mr. Rohit Kumar Singh presented e-Waste Charter to Mr. Shri N. Deben, Additional Director, Department of Information Technology, Government of India.



Snapshots



Questions & Answers:

The floor was thrown open for a candid round of question and answers. Significant questions were raised by the dealers and detailed answers to them were given by Mr. Rohit Kumar Singh. Curiosity about setting up of channelized disposal at the dealer's end was raised. A step by step and comprehensive solution and how to tackle the respective challenges were discussed.

Schools

3.1

Imphal

E- waste awareness for schools

IMPHAL, 28th of APRIL 2017

A workshop to heighten awareness of environmental hazards of electronic waste among school children was held at the Temple of Learning, Kha-NaoremLeikai, Canchipur, Imphal on 28th of April 2017. The workshop was conducted by Consumer Electronics and Appliance Manufacturers' Association (CEAMA) on behalf of Ministry of Electronics and Information Technology. It is a part of a series of initiatives on e-Waste under Digital India.



Agenda:

	
Awareness Program on Environmental Hazards of Electronic Waste" under the "Digital India Initiative 28 th April, 2017, Temple of Learning, Imphal	
Program	
10:00AM - 10:30 AM	Registration
10:30AM - 10:40AM	Welcome Address Y. Gopal Singh Vice-Principal of Temple of Learning
10:40AM - 10:50AM	Address by the Guest of Honor Shri. Nambam Deban, Additional Director, Department of Information Technology, Govt. Of Manipur
10:50 AM - 11:00AM	Address by the Chief Guest Shri N. Praveen Singh, MCS, Director of Education, Govt. of Manipur
11:00 AM - 11:45AM	An Introduction to E-waste and its Management; Presentation by Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA.
11:45 AM - 12:00 AM	Q & A Session
12:00 AM - 12:30 AM	Refreshment Break
12:30 AM - 1:15 PM	Activities Session <ul style="list-style-type: none"> • Poster making competition using e-Waste • The E- Café : ED with student on the issue of e-Waste
1:15 PM - 1:30 PM	Presentation of Certificate and Vote of Thanks Ms. Nitya Nangla Goswami Senior Advisor, Eco Foot Foundation

Arrival of the Guests:



Address by host School:

In his Welcome Address, Mr. Y Gopal Singh, Vice Principal of Temple of Learning, threw light on the low level of awareness of e-waste among schools. Education is critical for promoting sustainable development and improving the capacity of people to address environment and developmental issues. Schools can play a vital role in this regard. He appealed to the students to gain knowledge on the subject and disseminate the importance of e waste management to family, friends, neighbors and others whom they come into contact with. In his closing comments, he said that we needed to work in a concerted and collaborative manner to make the environment clean and green. Every individual must realize his or her responsibility towards proper re-cycling of e-Waste.

Chief guest - Director of Education, Govt of Manipur:

Shri N. Praveen Singh, Director of Education, Government of Manipur, was invited to be the Chief Guest but was unable to be present due to an emergency meeting with the Chief Minister. Mr Singh conveyed his apologies to the organisers.

Address by guest of honour:

Shri N. Deben, Additional Director, Department of Information Technology, Government of Manipur graced the occasion as the Guest of Honour. Mr. Deben said that e-Waste is a big challenge for all of us and sensitization on this subject is a welcome step. He applauded the efforts of CEAMA for shouldering the responsibility in 10 cities. In his speech he emphasized the importance of the three R's in electronic waste management, i.e. Reuse, Reduce Use, and Recycle. He urged the audience to treat e-Waste differently and not discard it like any other waste. In this context, he said that management of e-Waste from collection to disposal should be user-friendly so that the average consumer is not challenged when it comes to channelizing e-Waste. He raised concern about the increasing volume of e-Waste arising from the widespread use of digital equipment. Hazardous waste, in particular, should be treated in a scientific manner as it can endanger lives and damage the environment. Unless e-Waste is managed in a holistic way, with a robust end-to end processes in place by all stakeholders, the problem will not be solved.

He referred to the role of the informal sector and said that formalizing the informal sector can not only harness large amounts of e-Waste that pass through this channel but can also lead to socio-economic development of this sector.

Finally, he asked the students present to help create



awareness and to keep the city clean by channelizing their e-Waste to an authorized recycler. He reassured that the IT Department of Imphal will extend its support to CEAMA's endeavor and make e-Waste management in Imphal a success.



Presentation by CEAMA

Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy – CEAMA, and organizer of the workshop, presented a holistic view of the problem of e-Waste. He spoke about the rising quantities of e-Waste being generated and shared data about the volume being generated worldwide as well as in India. He stressed on the urgent need to collect and channelize e-Waste in a responsible manner so that components/material being used to produce electronic goods could be retrieved and reused or recycled.

Mr. Singh also shared the Government's plans of dealing with the hazard, including promulgation of the 2016 e-Waste Rules and the responsibilities of different stakeholders. He showed the students a film which illustrated the challenge of e-Waste and introduced the school children to the GreenE website and app and the GreenE Genie, who is the mascot of the e-Waste programme.



Q & A Session

Ms. Mita Nangia Goswami, Senior Advisor, Eco roots Foundation, led the Q & A session in which the students had an interaction with Mr. Singh. Mr. Singh while responding the queries spoke about the rich endemic biodiversity of Manipur and how rampant consumerism was a threat to this, while asserting the power of individual action and the role students can play in making Imphal a responsible city vis a vis the collection and recycling of e-Waste.

Recycled Products Made by Students:

BabyLamutem (Class X) of D'Regina School was the Master of Ceremonies. Students of the same school created some recycled products from e-Waste using old keyboards, chart paper and used compact discs. Some pen stands and photo frames were also made.

About The Workshop:

The workshop attracted a gathering of 900 students and 40 teachers from 9 schools of Imphal, which included



- Maria Montessori Senior Secondary, School, Koirengai
- Standard Robarth Higher Secondary School, Canchipur
- Kiddies Corner High School, Chingmeirong
- Manipur Public School, Koirengai
- St. Anthony's Higher Secondary School, Sangapham
- Shantilata Memorial School, Paona Bazar
- Temple of Learning, Canchipur, and
- Saint Anthony School



Certificate of appreciation and e waste charter given to students & schools by ceama

Snap Shots of the Program:

The students participated in a poster- making and caption-writing activity as well as a group discussion on the role they can play in spreading awareness of e-Waste.

Painting, Poster making and Group Discussion



Dealer

04

Indore

An awareness programme on Environmental Hazards of Electronic Waste under the aegis of 'Digital India Initiative' for dealers in the city of Indore was organised by Consumer Electronics and Appliances Manufacturers Association (CEAMA), an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT. The awareness event is part of the sensitisation program to impart basic knowledge to the dealers associated with electrical and electronics instruments about e-waste, ever increasing ecological and environmental concerns as a result of wrong methods of disposal mechanisms being practiced for such waste. The programme elucidated on the discrete steps of recycling and correct disposal of e-waste at different levels and the broad responsibilities of associated dealers.

A gathering of 63 dealers witnessed the program at Country Inn & Suite by Carlson, Indore.

The event started with the warm welcome address by Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning

Strategy, CEAMA. He informed the gathering about the awareness program which was envisaged by Honourable Prime Minister of India Shri Narendra Modi at an event of NASSCOM where he had advised to consider e-Waste in tune with ordinary garbage although very importantly keeping in mind the very different approach of disposal of the two.

Mr. Anirudha Kela, (Director, Scientific Mes Tech Pvt. Ltd and Association of Industries, Madhya Pradesh) emphasized on the importance of segregation of e-Waste at household level. He also highlighted about the apathetic approach among users of electronic products that they exhibit when the product reaches end-life. Instead of proper disposal in spite of knowing the proper procedure people tend to dump the e-Waste with other solid waste which is adding on the problems associated with e-waste management issue. There is a strong necessity to change such attitude. He also highlighted the dire need of better laws to fight the menace of unorganized and un-channelled disposal of e-Waste.

Awareness Programme on Environmental Hazards of Electronic Waste Under "Digital India Initiative"

20th July, Indore



Mr. Kela spoke about the responsibility of educating the consumers about the serious concern of e-Waste by educative posters, messages and slogans to have a more in-depth impact.



Mr. Behram Toddy, Assistant Manager, Re-Teck enlightened the gathering by sharing his insights by outlining the basic concepts of e-Waste. He explained what constitutes e-Waste. He furthered the session by elaborating how e-Waste is one of the fastest growing wastes in India and the huge rate of 305 per annum at which it is increasing. The rate of development in technology is proportionately increasing the e-Waste a country is generating. All the components of electrical and electronic equipment constitute e-Waste when it exhausts its life-span.

School

Mr Toddywala elucidated about the two kinds of e-Waste:

Valuable
Harmful

Valuable entities coming out of the e-Waste are metals like Gold, Silver, Copper, Platinum, Palladium and many such useful metals.

Harmful by-products of e-Waste are Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health.

Mr. Toddy elaborated about the highest production of e-Waste from the western region of India. He presented the analysis of some of the research data statistics which states that sixty five cities in India generate up to 60% of total e-waste. Ten states alone generate more than 70% of total e-waste. It is estimated that only 1,70,000 tonnes (only approx. 10%) of the total e-waste generated gets ultimately processed by the formal recycling sector. As per the study, around 94% of corporate in India do not have a policy on disposal of obsolete IT products/ e-Waste.

He threw light on the huge gap in the amount e-Waste being generated and the e-Waste being received by the recyclers is of a large magnitude. The detrimental methods adopted by informal sector in treating the printed circuit boards (PCBs) is a grave concern as people in the unorganized sector just burn the PCBs without much realizing about the components that can be recycled from them and consequentially expose themselves to the hazardous fumes that are generated while burning them.

Mr. Toddywala highlighted on cases where improper management of e-waste had led to toxins in breast milk in samples collected from different locations. E-Waste reaching the landfills reaches the food chain and are being ingested by both human and ecological beings.

He explained the role that Re-Teck is playing by providing reverse value chain services in the electronic industry in India and globally.

Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA made a detailed presentation on e-waste and its management for dealers. He explained the objectives of the programme and expressed on the same for the extensive and insightful understanding of what constitutes e-Waste, escalating risk factors associated with e-Waste in India, the important rules governing e-Waste and to talk about and come to a final conclusion on the liability of dealers on promoting correct e-Waste management.

Proceeding on the event Mr Singh explained e-Waste consists of the wastes generated from electronic and electrical devices of our daily use like computers, mobile phones air conditioners and many such things. He emphasized on the rejected parts of electronic goods constituting a considerable fraction of e-Waste which not only constitutes of the end product we get after a device completed its life period.

He presented an elaborate in-depth details to the dealers with some pictures of how the discarded e-Waste reach the landfills and pose critical consequences to the human health and the overall detrimental ecological impact with which it threatens the environment. The data with the global e-waste production is put at a staggering 16MMT to which India's contribution is about 1.7MMT making it the 5th highest producer of e-Waste. Mr Singh shared how appliances and gadgets at the household and the IT industry level constitute the largest chunk of e-Waste in India.

Among the top ten cities generating E-waste, Maharashtra ranks first followed by Tamil Nadu, Andhra Pradesh, U.P, West Bengal, Delhi, Karnataka, Gujarat and Madhya Pradesh. He also explained the risk factors associated with the e-Waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health if not handled in a directed process.

Lead, mercury and cadmium can cause irreversible damage to the central and peripheral nervous systems, effect brain development of children and cause damage to the circulatory system, kidneys and the reproductive system. Chromium has the potential to easily pass through cell membranes leading to various toxic effects. Some studies have shown that short-term exposure to beryllium, barium, and BFRs can cause serious health implications such as cancer.

Mr Singh threw light on the current practices being followed at different levels of handling the e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government. He explained how there are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is the domination of the informal sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

An insightful study of informal practices being practiced at the grassroots level was presented with the aid of pictures of unscientific and unsafe practices being followed by the unorganized sector. Lack of knowledge among population, most particularly women and children is a serious cause of concern. The open dumping of e-Waste leading to the leaching of toxic waste into the soil and consequentially entering the food chain is a lethal cause of concern and serious actions have to be taken as soon as possible.

E-Waste (Management and Handling) Rules, 2016 notified in March 23, 2016 became effective from October 1, 2016 mandates the responsibility of dealers for handling of e-Waste.

Emphasis was laid on creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has become e-Waste, developing environmentally safe and sound recycling practices, making producers responsible for setting up a system of e-waste collection/ take-back for their own brands, channelizing the collections to registered recyclers. Giving responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. Reducing hazardous substances in electrical and electronic components.

A detailed analysis and breakdown of the e-Waste at different level made the attendees more practically aware about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding. Average life span of different electrical and electronic instruments was provided to the participants. The responsibility of dealers at various levels was explained in detail to provide them with the insights of step-by step handling of the e-Waste.

He emphasized on the responsibility of producers to collect and channelize e-waste generated from 'end-of-life' products to authorized recyclers. They may use numerous methods/schemes to channelize e-Waste and such scheme should be described in the authorization document. These could be incentivizing return of e-waste by consumers/bulk consumers whether through dealers or buy-back arrangements or take-back systems or exchange scheme for channelization of e-waste, managing the process individually or collectively through a Producer Responsibility Organization, where a set of producers set up a common/shared collection and channelization mechanism. Supervising collection through a 'Deposit Refund Scheme' (DRS) or exchange scheme for collection and channelization of e-waste, Producer must provide contact details such as address, e-mail address, toll-free telephone numbers or helpline numbers to consumers or bulk consumers through their website and product user documentation so as to facilitate return of end-of-life electrical and electronic equipment. Producers must create awareness through media, publications, advertisements, posters, or by any other means of communication. Mr. Singh clearly elaborated how a shift from unorganized and informal e-waste management to an effective and comprehensive treatment of the waste has to be done by shifting from manual to automated processing for the least errors, from unsafe to safe practices and most importantly from dumping to recycling.

Finally he explained to the dealers the protocols to follow for shouldering the responsibility of streamlining the e-Waste management. Referring the rules he informed that a dealer can act as a collection center for the producer. Also it's the duty of a dealer to collect the e-Waste by providing the consumer a box, bin or a demarcated area to deposit e-Waste.

They were informed that they can do the collection through the take back/exchange mechanism which they generally do during the festive seasons and have to send the e-waste so collected to Collection Centre/ Dismantler/ Recycler as designated by producer.

They were advised to learn more about the e-Waste and should further train their employees who directly deal with customers to make them aware of the e-Waste scenario and its correct disposal methods to be followed.

It was emphasized that under the current rules the dealers must ensure that the e-waste generated is safely transported to authorized dismantlers or recyclers without causing a damage to the environment during its storage/ transportation.

They were advised that the old products should be sent to registered re-cyclers and the details of those registered recyclers can be culled from the website of Central Pollution Control Board (CPCB) and greene.

Mr. Singh also provided them with a quick check list of things which they must consider in respect with proper management of e-Waste:

- Keep track of developments on e-Waste
- Know who are authorized recyclers in your city (CPCB Website)
- Visit www.greene.net.in & Download greene App
- Ascertain from brands that Have they set up Collection Centres or Collection Points in your city and Details of their helplines/website/apps where information can be obtained on their e-Waste system
- Educate customers about their responsibilities as articulated in the Rules
- When a customer is buying a new product, ask them: what are they doing with the old product?
- Inform customers about the facilities brands have provided for channelization of e-Waste
- Allow brands to put up Posters and Collection Bins at their store.



Q & A Session

The floor was thrown open for an interactive round of question and answers. Pertinent questions were posed by the dealers and detailed answers to them were provided by Mr. Rohit Kumar Singh. Concerns regarding the establishment of organized disposal at the dealer's end were raised. A step by step and comprehensive solution and how to tackle the respective challenges were discussed.



In the final note Mr. Rohit Kumar Singh gave the vote of thanks to the audience for their cordial presence and imparted final words of encouragement for the correct disposal of e-Waste.

Snapshots :



Schools

4.1

Indore

An awareness programme on Environmental Hazards of Electronic Waste under the aegis of 'Digital India Initiative' for schools in the city of Indore was organised by Consumer Electronics and Appliances Manufacturers Association (CEAMA), an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT

The awareness event is part of the sensitisation program to make the teachers, students and parents aware about e-Waste and the umpteen growing environmental impacts which are direct result of incorrect dumping of such waste. The program informed on the distinct steps of recycling and proper disposal of e-Waste at different levels.

The program was held in two sessions at Anand Mohan Mathur Sabha, Indore which was attended by a gathering of more than 1200 including teachers and students ranging from 9 different schools of Indore. The participating schools were:



1. Pragya Girls School
2. Vidyanjali International School
3. Mount. Litera Zee School
4. IPS Convent

Awareness Programme on Environmental Hazards of Electronic Waste Under "Digital India Initiative"

20th July, Indore



Second Session:

5. Delhi International School
6. Pioneer
8. Ana Convent School
9. New Era Public School

Agenda :

Awareness Program on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative on 20th July, 2017, Indore
PROGRAMME

First Session (9.00 AM-11.00 AM)

Sr.No	Session timing	Session topic
	0900 – 0915	Registration and distribution of posters Inaugural session
	0915 – 0920	Welcome address by Mr. Rohit Singh, Manager , Corporate Affairs, Planning & Strategy,
	0920 – 0925	CEAMA Special address by Mr. Sunil Vyas, SPCB, Indore
	0925- 0925	Address By Chief Guest : Ms. Shalini Shrivastav, SDM(Indore)
	0925- 0945	Address by recycling Partner : Mr. Behram Toddy, Reteck
	0945– 1030	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy, CEAMA
07	1030 -1035	Mime Act- Greene today Greene tomorrow
08	1035 -1100	JAM Session (Just A Minute)- An extempore competition
09	1030 -1115	Distribution of e-Waste Charter and Certificates
10	1115 -1125	Vote of thanks by
11	1125 onwards	E waste Collection & Distribution of refreshments

The second session was conducted between 11.30 AM and 1.30 PM followed the same agenda as above.

Registration of the Program:

Both the session began with the formal registration process, followed by the Inaugural Session.



Welcome Address:

The awareness program for e-waste awareness opened with the warm and energetic welcome address by Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning Strategy, CEAMA. He informed the crowd how the awareness program was envisioned by Honourable Prime Minister of India Shri Narendra Modi at an event of NASSCOM where he had suggested to taking e-Waste as seriously as regular garbage although keeping in mind the very different approach of disposal of the respective two.



Address By Chief Guest:

Ms. Shalini Shrivastav, SDM(Indore) in her address gave her insights about e-Waste and its management being done by government. Ms Shrivastav informed about the state of affairs regarding treatment e-Waste in Indore. She emphasized on the e-waste management and disposals to be user friendly so that the waste is managed more efficiently and the hazardous waste reaches the targeted location instead of unconcerned disposal by the users. There should be targeted training among the stakeholders so that the e-waste is managed in a more channelized procedure. She encouraged the students gathered to further the process of sensitising the society as they are the torchbearers of tomorrow.



Address By Guest of Honour:

Mr. Sunil Vyas, Scientist, State Pollution Control Board elaborated about the new rules promulgated by Government of India for the disposal of e-Waste in 2016. He discussed how the gaps in the earlier orders have been tried to be filled with better laws. He explained how human activities have negatively impacted the surroundings. For instance, the incorrect and unorganised disposal of e-Waste is leading to leaching of harmful toxic chemicals into the soil which is one of the leading causes of various insidious health issues faced by humans due to the entry of such chemicals into the food chain. The astounding statistics of the solid waste spawned were stated to the assembly to provide them with the ground realities. He also imparted with the hard-hitting facts of how electrical and electronic instruments have become part and parcel of human life. Developed countries have a considerable portion of e-Waste comprising their solid waste as a result of larger dependence on such equipments. He also added that keeping in view the trend of exponential growth in the IT area and consumption of such products in India, sooner than later India will join other countries as one of the major producer of e-Waste.



Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA gave an eclectic presentation on e-Waste and its management. He explained the objective of the event and detailed on the same for the broad understanding among young students of what comprises e-Waste, growing risk factors that e-Waste raises on India, the pertinent laws prevailing for e-Waste management and

to talk about and come to an inference on the liability of schools on encouraging right approach towards e-Waste management.

Proceeding with the event Mr Singh stated e-Waste consists of the wastes released from electronic and electrical equipments of our everyday use like computers, mobile phones air conditioners, TV's and many such other things. He explained about the rejected parts of electronic goods constituting an enormous section of e-Waste as well and not only the end product which we get after an appliance exhausts its life period.

He presented the gathering with some images of how the discarded e-Waste reaches the landfills and poses serious consequences to the human health and the overall negative ecological impact it threatens the environment with. The statistics with the global e-waste production is put at an overwhelming 16MMT of which India's contribution is about 1.7MMT which makes it the 5th highest producer of e-Waste.

Mushrooming consumption of electronic and electrical equipments in the form of gadgets, appliances was found as the primary reason of the growing e-Waste. Mr. Singh highlighted the risk factors linked with the e-Waste by discreetly explaining about each element that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the relevant effects they raise on various fronts of our biosphere and consequential impact on human health.

He also elucidated on the prevailing practices being followed at myriad levels of handling the e-Waste. E-waste management in India is extremely complex due to the existence of numerous stakeholders, some of whom are not within the purview of the law. Stakeholders comprise of individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government. There are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is the dominance of the unorganized sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

Mr. Singh informed how e-Waste can be meticulously managed and channelized by creating an e-Waste collection and channelization system by passing on responsibilities to all stakeholders for products that have reached end-of-life and has thus become e-Waste. Developing environmentally safe and sound recycling practices. Making producers responsible to setting up a system of e-waste collection/ take-back for their own brands, channelizing the collections to registered recyclers. Responsibilities should be assigned to urban local bodies for stray products and for waste found mixed with Municipal Solid Waste. He convinced the

gathering on reducing hazardous substances in electrical and electronic components.



MIME ACT



A motivating performance of significant impact of human activity and rapid industrialisation on the environment was performed by students of Pragya Girls School in the form of an interesting mime act. The objective was to deliver the key message to save the precious environment which is the true pride of a nation. A pledge to protect the environment was taken at the end with a mission GreenE today and GreenE tomorrow

Presentation by Retek:



Mr. Behram Toddywala, Assistant Manager, Re-Teck informed the students by sharing his knowledge by stating the basic concepts of e-Waste. He explained what constitutes e-Waste. He elucidated the program by highlighting on how e-Waste is growing exponentially

among other wastes in India and the huge rate of 305 per annum at which it is increasing. The rate of development in technology is proportionately increasing the e-Waste a country is generating. All the components of electrical and electronic equipment constitute e-Waste when it exhausts its life-span.

Mr. Toddywala elaborated about the two types of e-Waste:

- Valuable
- Harmful

Valuable entities coming out of the e-Waste are metals like Gold, Silver, Copper, Platinum, Palladium and many such useful metals.

Harmful by-products of e-Waste are Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health.

Mr. Toddy elaborated about the highest production of e-Waste from the western region of India. He presented the analysis of some of the research data statistics which states that sixty five cities in India generate up to 60% of total e-waste. Ten states alone generate more than 70% of total e-waste. It is estimated that only 1,70,000 tonnes (only approx. 10%) of the total e-waste generated gets ultimately processed by the formal recycling sector. As per the study, around 94% of corporate in India do not have a policy on disposal of obsolete IT products/ e-Waste.

He threw light on the rising gap in the amount e-Waste being generated and the e-Waste being received by the recyclers is of a large magnitude. The dangerous methods practiced by informal sector in treating the printed circuit boards (PCBs) is a serious cause of concern as people in the unorganized sector just burn the PCBs without much realizing about the components that can be recycled and re-used from them and ignorantly expose themselves to the dangerous fumes that are generated while burning them.

Mr. Toddy highlighted on cases where improper management of e-waste had led to toxins in breast milk in samples collected from different locations. E-Waste reaching the landfills reaches the food chain and is being ingested by both human and ecological beings.

He elaborated on the role that Re-Teck is playing by providing reverse value chain services in the electronic industry in India and globally.

EXTEMPORE ON E-WASTE



An extempore activity was arranged in which students contributed by sharing about their knowledge of the e-Waste and its management and took the pledge to control the growing problem of improper disposal of e-Waste at their respective level.

In the first session 9 students participated from 6 different schools

In the second session 3 students participated from 3 different schools.

Students shared their thoughts on e-Waste wherein they explained about the sources of such waste, the elements found in e-waste. Students coherently explained the long term impact on human health in cases of exposure to the waste such as the detrimental effect on nervous system. They also elucidated on the serious need of channelizing of e-waste for the betterment of environment the society that lives in and the generations that will follow. Students also suggested for stricter norms to be applied against defying stakeholder dealing with e-Waste

Distribution of e-Waste Charter Schools:



Charter Felicitation to Chief Guest:



Media Coverage



1200 से ज्यादा बच्चे, सरकारी अधिकारियों व एनजीओ ने अपनी उपस्थिति दर्शाई



डिजिटल इंडिया अभियान के अंतर्गत, भारतके इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी मंत्रालयने सीईएम्पे (कम्प्युटर इलेक्ट्रॉनिक्स एंड एप्लायंसेज मनुफ़क्चरर्स एसोसिएशन), एम्पेआईटी और नाएएसएससी ओएम्के साथ मिलकर, ई-वेस्ट के पर्यावरण जोखिम व खतरों पर इंदौर में एक कार्यशाला का आयोजन किया. इस कार्य शाला के औपचारिक अधिष्ठापन के दौरान- सुश्री शालिनी श्रीवास्तव, एसडीएम इंदौर, श्री मान मनील व्यास, पर्यावरण अफसर, एसपीसीबी, औरश्रीमान रोहित कुमार सिंह, प्रबंधक, कॉर्पोरट अफेयर्स, योजना व रानीति, सीई एम्पे के तरफ से मौजूद रहे. इस अभियान के तहत, हितधारकों में ई- वेस्ट के प्रति जागरूकता लाने के कोशिश की गई है जो दस शहरी क्षेत्रों, जिससे ई- वेस्ट का प्राकृतिक तरीके से पुनरावर्तन करना संभव है. यह महान उद्देश्य को पूर्ति को लिए क्षेत्रीय कार्य दल का गठन, कुछ महत्वपूर्ण रानीतिर्षी तथा क्षेत्र को निर्माण कार्य को योजना को गयी है. यह अभियान बिहार, इम्फाल को बाद अभी मंगरदाबाद में है और इसमें 7 और शहरों को भी शामिल किया गया है जिसमें गुवाहाटी, पुबनेबर, इंदौर, कोलकाता, पंजिम, पांडुचेरी, और रांची शामिल हैं. इस कार्यक्रम को मुख्यअतिथि सुश्री शालिनी श्रीवास्तव ने कहा- 'कम्प्युटर इलेक्ट्रॉनिक्स एंड एप्लायंसेज मनुफ़क्चरर्स एसोसिएशन' को यह पहल जिससे हमारे देश की बच्चे ई-वेस्ट पर बंधन को बारे में जागरूक होंगे बहुत सरहातीय है।



Snapshots



Dealers

05

Kolkata

Consumer Electronics and Appliances Manufacturers Association (CEAMA), established in the year 1978 an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT had organized an awareness programme on Environmental Hazards of Electronic Waste under the aegis of 'Digital India Initiative' for dealers in the city of Kolkata.

The awareness event is part of the sensitisation program to impart basic knowledge to the dealers associated with electrical and electronics instruments about e-waste, ever burgeoning ecological and environmental concerns as a result of wrong methods of disposal mechanisms being practiced for such waste. The programme elucidated on the discrete steps of recycling and correct disposal of e-waste at different levels and the broad responsibilities of associated dealers.

The event was attended by almost 50 dealers.

Welcome Address:

The event started with the welcome address by Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning

Strategy, CEAMA. He briefed the gathering how the awareness program was envisioned by Honourable Prime Minister of India Shri Narendra Modi Ji at an event of NASSCOM where he had advised to consider e-Waste vis-a-vis with ordinary garbage although keeping in mind the very different approach of disposal of the two.

Presentation by CEAMA:

Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning

Strategy, CEAMA delivered a presentation on e-waste and its management for dealers. He explained the objectives of the programme and articulated on the same for the extensive and in-depth understanding of what constitutes e-Waste, escalating risk factors associated with e-Waste in India, the significant laws governing e-Waste and to discuss

Awareness Programme on Environmental Hazards of Electronic Waste Under "Digital India Initiative"

10th July 2017, Kolkata

and come to a conclusion on the responsibility of dealers on promoting correct e-Waste management.

Furthering the event Mr Singh explained e-Waste consists of the wastes generated from electronic and electrical appliances of our daily use like computers, mobile phones air conditioners, TV, Refrigerators and many such things. He emphasized on how rejected parts of electronic goods also constitute a substantial part of e-Waste and not only the end product we get after an appliance exhausts its life period.

He presented an elaborate insight to the dealers with some pictures of how the discarded e-Waste reach the landfills and pose grave consequences to the human health and the overall detrimental ecological impact it threatens the environment. The data with the global e-waste production is put at a staggering 16MMT to which India's contribution is about 1.7MMT making it the 5th highest producer of e-Waste. Mr Singh shared how appliances and gadgets at the household and the IT industry level constitute the largest chunk of e-Waste in India.

Among the top ten cities generating E-waste, Mumbai ranks first followed by Maharashtra ranks first followed by Tamil Nadu, Andhra Pradesh, U.P, West Bengal, Delhi, Karnataka, Gujarat and Madhya Pradesh. He also explained the risk factors associated with the e-Waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, Chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health if not handled in a proper intended way.

Mr Singh threw light on the current practices being followed at different levels of handling the e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government. He explained how there are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is

the hegemony of the informal sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

An in-depth study of informal practices being followed at the grassroots level was presented with the aid of pictures of unscientific and unsafe practices being followed by the unorganized sector. Lack of knowledge among population most particularly women and children is a serious concern. The open dumping of e-Waste leading to the percolation of toxic waste into the soil and as a result entering the food chain is a lethal cause of concern and serious actions have to be taken as soon as possible.

E-Waste (Management and Handling) Rules, 2016 notified in March 23, 2016 became effective from October 1, 2016 mandates the responsibility of dealers for handling of e-Waste. Emphasis was laid on creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has become e-Waste, developing environmentally safe and sound recycling practices, making producers responsible for setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers.

Giving responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. Consumers or bulk consumers shall ensure that e-waste generated by them is channelized through collection center or dealer of authorized producer or dismantler or recycler or through the designated take back service provider of the producer to authorized dismantler or recycler. Bulk consumers shall maintain record of e-waste generated by them in Form-2 and make such records available for scrutiny by the concerned State Pollution Control Board

He presented the gathering with an image displaying all the vital organs and the direct impact all the components of e-Waste has on each organ to make a crystal-clear impact. For instance, Lead used in CRTs and batteries is directly affecting the central and peripheral nervous systems, blood systems and kidney damage. It affects brain development among children. Exposure to chromium can cause DNA damage and toxic effects of PCBs are suppression of immune system and damage to the reproductive health to list a few.

A detailed analysis and breakdown of the e-Waste at different level made the attendees more close to reality about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding. Average life span of different electrical and electronic

instruments was provided to the participants. The liability of dealers at various levels was elucidated in detail to give them with the in-depth procedure to be followed for treating of the e-Waste.

He further provided them with a ready reckoner of things which a dealer should follow in respect with management of e-Waste:

- Keep track of developments on e-Waste
- Know who are authorized recyclers in your city (CPCB Website)
- Visit www.greene.net.in & Download greene App
- Ascertain from brands that Have they set up Collection Centres or Collection Points in your city and Details of their helplines/website/apps where information can be obtained on their e-Waste system
- Educate customers about their responsibilities as articulated in the Rules
- When a customer is buying a new product, ask them: what are they doing with the old product?
- Inform customers about the facilities brands have provided for channelization of e-Waste
- Allow brands to put up Posters and Collection Bins at their store.



Media Coverage



Schools

5.1

Kolkata

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative”

11th July 2017, Kolkata



The city of joy Kolkata played host to an awareness programme on Environmental Hazards of Electronic Waste under the aegis of ‘Digital India Initiative’ for schools which was organised by Consumer Electronics and Appliances Manufacturers Association (CEAMA), an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT

This awareness event is a part of the umbrella project of ‘Digital India’ campaign launched by Ministry of Electronics and Information Technology (MeitY) under Government of India to aware citizens and in most importantly students who would be the trailblazers to make apt changes in society in the coming days. The awareness programme aims to teach students, parents and teachers about the ill-effects of unsafe and unorganised disposal of e-Waste on the ecological surrounding and consequently on the environment on the broader horizon.

A huge gathering of around 1300 students thronged at the event from 9 different schools across the city. The participating schools were as follows:

- K. V. Fort William
- K. V. No. 1 Saltlake
- K. V. No. 2 Saltlake
- K. V. Ballygunge
- Cossipore Gun and Shell Factory High School
- Bethune Collegiate School
- Purbanchal
- Balika Siksha Sadan
- Baghbazar Multipurpose School

Agenda :

Awareness Program on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative on 11th July, 2017, Kolkata
PROGRAMME

First Session (9.00 AM-11.00 AM)

Sr.No	Session timing	Session topic
	0900 – 0915	Registration and distribution of posters Inaugural session
	0915 – 0920	Welcome address by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy,
	0920 – 0925	CEAMA Special address by Mr.Prodip Mukhopadyay, General Manager Webel
	0925- 0925	Address By Chief Guest: Ms. Sarmistha Kundu, Sr. Environmental Engineer,Waste Management Cell West Bengal Pollution Control Board
	0925- 0945	Address by recycling Partner : Mr. Behram Toddy, Reteck
	0945– 1030	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy, CEAMA
07	1030 -1035	Mime Act- Greene today Greene tomorrow
08	1035 -1100	JAM Session (Just A Minute)- An extempore competition
09	1030 -1115	Distribution of e-Waste Charter and Certificates
10	1115 -1125	Vote of thanks by Mr. Shantanu Das Gupta, CEAMA
11	1125 onwards	E waste Collection & Distribution of refreshments

Registration of the Program:

The sessions began with the formal registration process, followed by the Inaugural Session



Lamp Lighting Ceremony:



The awareness program kick started with a lamp lighting ceremony where dignitaries from government and industry inaugurated the program.

Welcome Address:

The sensitisation program opened with the welcome address from Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA. He educated the mass how the idea of e-Waste awareness program was coined by Honourable Prime Minister of India Shri Narendra Modi at an event of NASSCOM where he had suggested to considering e-Waste as seriously as regular garbage although keeping in mind the very different approach of disposal of the respective two.

Address by Guest of Honour:



Mr. Prodip Mukhopadhyay, General Manager, Webel explained the impact of human activities that have harmfully affected the surroundings. He said that the erroneous and unchanneled discarding of e-Waste is leading to percolation of injurious toxic chemicals into the soil and water which is one of the leading causes of various dangerous health issues faced by human's due to the entry of such chemicals into the food chain. The shocking statistics of the solid waste spawned were stated to the assembly to provide them with the ground realities.

He also imparted with the hard-hitting facts of how electrical instruments have become part and parcel of human life. Developed countries have a considerable portion of e-Waste comprising their solid waste as a result of larger dependence on such equipments but he also added that keeping in view the trend of tremendous rise in the IT area and consumption of such products in India, sooner than later India will join other countries as a major producer of e-Waste.

Address by Chief Guest



Ms. Sarmistha Kundu, Sr. Environmental Engineer, Waste Management Cell, West Bengal Pollution Control Board opened about the compliance levels among various stakeholders in the city of Kolkata. She appealed to everyone that they have to join hands for the greater good of this precious environment that has been endowed to us. She also commented about the new rules promulgated by Government of India for the disposal of e-Waste in 2016. She discussed how the new laws are part of a bigger effort to collectively minimise the current unsafe practices being followed among people.

Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning

Strategy, CEAMA delivered a diverse presentation on e-Waste and its administration. He detailed about the intention of the event and stressed on the subject for complete understanding among young students of what comprises e-Waste, growing risk factors that e-Waste raises on India, the pertinent laws prevailing for e-Waste management and to talk about and come to an inference on the liability of schools on encouraging right approach towards e-Waste management.

Furthering with the program Mr. Singh informed the inquisitive students that e-Waste consists of the wastes given out from electronic and electrical equipments of our everyday use like computers, mobile phones air conditioners and many such other things. He elaborated how the discarded parts of electronic goods constituting an enormous section of e-Waste as well and not only the end product which we get after an appliance completes its life cycle.

He presented the gathering with some images of how the discarded e-Waste finds its place to the landfills posing serious threats to the human health and the ecological system in large. The statistics with the global e-waste production is put at an overwhelming 16MMT. India's contribution is about 1.7MMT making it the 5th highest producer of e-Waste.

Burgeoning consumption of electronic and electrical equipments in the form of gadgets, appliances was found as the primary reason of the growing e-Waste. Mr. Singh highlighted the risk factors linked with the e-Waste by discreetly explaining about each element that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated

biphenyls and poly-brominated di-phenyl ethers and the relevant effects they raise on various fronts of our biosphere and consequential impact on human health.

He also elucidated on the prevailing practices being followed at myriad levels of handling the e-Waste. E-waste management in India is extremely complex due to the existence of numerous stakeholders, some of whom are not within the purview of the law. Stakeholders comprise of individual and bulk consumers, manufacturers and producers of Electrical and Electronic equipments, formal and informal recyclers, NGOs etc.

There is lack of appropriate laws for the public / individual consumers to be adhered and responsible for their E-wastes. A major issue is the dominance of the unorganized sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment. He presented the gathering with an image displaying all the vital organs and the direct impact all the components of e-Waste has on each organ to make a crystal clear impact. For instance Lead used in CRTs and batteries is directly affecting the central and peripheral nervous systems, blood systems and kidney damage. It affects brain development among children.

Mr. Singh informed how e-Waste can be meticulously managed and channelized by creating an e-Waste collection and channelization system by passing on responsibilities to all stakeholders for products that have reached end-of-life and has thus become e-Waste Developing environmentally safe and sound recycling practices.

Making producers accountable to setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Responsibilities should be assigned to urban local bodies for stray products and for waste found mixed with Municipal Solid Waste. He convinced the gathering on reducing hazardous substances in electrical and electronic components.

A pictorial study and breakup of the e-Waste components, its sources made the students, teachers and parents realize about the detrimental effects of such waste and the urgent need of controlling it.

He further emphasized on the role which students can play in order to manage the e-waste and asked them to evaluate and practice the following:

Evaluate: Do you really need that extra gadget?

Extend the life of electronics with better care

Buy only energy efficient and RoHS compliant products

Donate used but working-condition electronic products to the NGOs

Channelize products that have reached end-of-life to an authorized recycler in your city. Call the brand's helpline for assistance, if required

Learn more about e-Waste

Visit www.greene.net.in and download Greene app

Know who is an authorized recycler in the city (Check CPCB website)

Set up a Collection Bin in your school and channelize the waste to an authorized recycler

Start a collection drive for old phones, chargers, and batteries

Educate other students, peers and colleagues

Use discarded e-Waste material to create crafts in your Arts class

Learn how to fix a device when it is not working

Use electrical and electronic equipment in school with care to prolong their life.

Form groups of like-minded students and start e-Waste Drives



EXTEMPORE ON E-WASTE



An extempore activity was conducted in which students contributed by sharing their insights on e-Waste and its management and took an oath to control the growing problem of improper disposal of e-Waste at their respective level.

Students shared their thoughts on e-Waste wherein they explained about the sources of such waste, the elements found in e-waste. Students lucidly explained the long term impact on human health in cases of exposure to the waste such as the detrimental effect on lungs, skin disorders due to bioaccumulation in aquatic beings. They also elaborated on the urgent requirement of streamlining of e-Waste for the greater good of environment and consequently the

greener advancement of society. Students also suggested for providing the law keepers with more teeth to catch hold of the defying parties in this cause.

Vote of thanks



Mr. Shantanu Dasgupta, Advisor (CEAMA) thanked the audience and guests for soliciting their presence. In the final note, he encouraged everyone to take on the responsibility for the greater cause of our society and the nation.

Prize Distribution



Dealers 06

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative

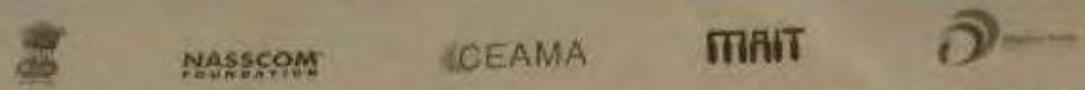
Moradabad

10 May 2017, Moradabad



A workshop to create awareness of environmental hazards of electronic waste among electronic and appliance dealers was held at the Hotel Clark, Moradabad on 10th of May 2017. The workshop was conducted by Consumer Electronics and Appliance Manufacturers' Association (CEAMA), on behalf of Ministry of Electronics and Information Technology. It is a part of a series of initiatives on e-Waste under Digital India.

Agenda


Awareness Program on Environmental Hazards of Electronic Waste" under the "Digital India Initiative
10th May, 2017, M.B Greens Clarks Inn, Prem Wonder Land Rampur Road, Moradabad

Program

05.30 PM - 06.00 PM	Registration
06.00 PM - 6.10 PM	Welcome Address Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy CEAMA
06.10 PM - 06.20 PM	Address By Mr. Vimal Kumar Rajput, Scientific Assistant UPPCB, Moradabad
06.20 PM - 06.30 PM	Address By Mr. Vinod Agarwal, Mayor of Moradabad
06.30 PM - 07.10 PM	An Introduction to E waste and its Management, Presentation by Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy CEAMA
07.10 PM - 07.20 PM	Q&A
07.20 PM - 07.30 PM	Vote of Thanks CEAMA
7.30 PM	Dinner

ARRIVAL OF THE GUESTS



ADDRESS BY- SCIENTIFIC ASSISTANT,UPPCB MORADABAD



In his speech, Mr. Vimal Rajput, Scientific Assistant, Uttar Pradesh Pollution Control Board Moradabad said that there is urgent need to address the issue of e-Waste in the city of Moradabad. e-Waste in Moradabad comes from all the metro cities, mainly from New Delhi (Shastri Park, Silampur, Mundka and Mandoli), Mumbai, Kolkata, Bangalore and Chennai, and there are no proper recycling done to the e-Waste. The awareness program will be a crucial tool to reach the masses and make them aware about proper channelization of e-Waste and benefits of recycling.

CHIEF GUEST - MAYOR, MORADABAD



Shri Vinod Aggarwal, Mayor, Moradabad was the Chief Guest for the Program. The Mayor said that the initiative taken by CEAMA and MeitY to educate our countrymen about e-Waste is a commendable step. He further said that Moradabad has been a place of metal extracted for years and currently a lot of illegal recycling and dismantling practices of electronic products are taking place in the city. He also put an emphasis on the hazardous content present in these products and how harmful they are for the health of people and the whole ecosystem at large.

He also added that while unsafe handling and dismantling of products is creating a huge impact on people's lives. At the same time, substances that get released during the extraction process are being directly dumped into the river Ram Ganga.

He reiterated the fact that there is an urgent need to create awareness on this subject and CEAMA has taken this initiative at the right time. He requested the participants to create awareness and cleanliness in the city.

PRESENTATION BY CEAMA



Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning and Strategy, CEAMA made a power point presentation elucidating the responsibilities of dealers towards e-Waste, in addition to highlighting the hazards of e-Waste on environment.

He informed the dealers present about the responsibility which they must assume under e-Waste rules 2016. He also made a mention that dealers can act as a crucial stakeholder in educating the customers regarding the safe disposal of e-Waste.

He further said that e-Waste should be handed over only to an authorized recycler and informed that the dealers can seek details of authorized recyclers from the CPCB website. Also, they can visit the Greene website which has been developed by Ministry of IT, Government of India to learn more about the safe disposal of e-waste.

Talking about the estimates he outlined that India would become the biggest dumping ground of e-Waste by 2020 and therefore it is crucial at this juncture to ensure proper management and safe disposal of e-Waste in the country.

QUESTION & ANSWER

Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning and Strategy, CEAMA, led the Q & A session in which the dealers had an interaction with him. Mr. Singh while responding the queries spoke that in the last few years consumer electronics market has grown at an exponential rate. Further responding to the queries of the

audience he said that dealers have a crucial role to play in proper management of e-Waste. Dealers can act as a crucial stakeholder in educating their trade partners, retailers, consumers and other stakeholders regarding the impact of e-waste.

also said that we should take a pledge to give our e-Waste to authorized recyclers only.

As the first of a 10-city drive, the Moradabad event generated great energy and enthusiasm by sensitizing dealers, branch representatives, NGOs and government officials.



SNAP SHOTS OF THE PROGRAM:

MEDIA COVERAGE:



E-WASTE CHARTER GIVEN TO CHIEF GUEST BY CEAM



VOTE OF THANKS

The vote of thanks was proposed by Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning and Strategy, CEAMA. He thanked all the participants and said that it is high time that industry stopped talking and do something about the e-Waste problem. At the end of this speech he given the slogan "Greene Today Greener Tomorrow" and

Schools

6.1

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative

Moradabad

2nd August 2017, Moradabad



The 'Brass City' Moradabad situated on the banks of river Ramganga hosted an awareness programme on Environmental Hazards of Electronic Waste under the aegis of 'Digital India Initiative' for schools organised by Consumer Electronics and Appliances Manufacturers Association (CEAMA), an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT

The awareness program is an endeavour to sensitize the teachers, students and parents about e-Waste and the myriad growing environmental impacts which are direct result of improper dumping of such waste. The program educated about the distinct steps of recycling and proper disposal of e-Waste at different levels.

The program was at Mighlani Celebrations, Moradabad which was attended by a gathering of more than 1100 including teachers and students ranging from 5 schools of Moradabad.

The participating schools were as under:

- Scholar's Academy
- Mansarovar Girls Inter College
- R. D. Academy
- Nosgey Senior Secondary School
- Mohan Public School

Agenda :

Awareness Program on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative on 20th July, 2017, Indore
PROGRAMME

First Session (9.00 AM-11.00 AM)

Sr.No	Session timing	Session topic
	0900 – 0915	Registration and distribution of posters Inaugural session
	0915 – 0920	Welcome address by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy,
	0920 – 0925	CEAMA Special address by Mr.Prodip Mukhopadyay, General Manager Webel
	0925- 0925	Address By Dr. Anamika Tripathi, Head of the Department (Botany), Hindu College Morad-abad
	0925- 0945	Address by Mr. R.K. Singh, Regional officer, UP Pollution Control Board
	0945– 1030	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy, CEAMA
07	1030 -1035	Mono Act- Greene today Greene tomorrow
08	1035 -1100	JAM Session (Just A Minute)- An extempore competition
	1030 -1115	Distribution of e-Waste Charter and Certificates
	1115 -1125	Vote of thanks by Mr. Shantanu Das Gupta, CEAMA
	1125 onwards	E waste Collection & Distribution of refreshments

The program was conducted in two sessions i.e from 9:00 am to 11:30 am and from 11:30 am to 1.30 PM.



Special Address By:



In a special address to the students Dr. Anamika Tripathi, Head of the Department (Botany), Hindu College Moradabad applauded the efforts of CEAMA for conducting first of its kind of such an event for a greater good cause of the society in the city of Moradabad. She vividly explained about the unsafe treatment being meted out to the e-Waste on the banks of river Ramganga. The e-Waste reaching there are being burnt and left untreated. This is a grave cause of concern as the vegetables being grown on the banks of river Ramganga have been found to contain dangerous levels of heavy metals in them. This incident has been corroborated by the laboratories at Pantnagar University, BHU etc. Dr. Tripathi conveyed that it is in this very way toxic element are entering the food chain and as a result getting accumulated in the body. The jeopardising effects of such elements have been well established and widely known.

Address By Guest of Honour:



Mr. R.K. Singh, Regional officer, UP Pollution Control Board, threw light on the current bylaws mandated by the Government of India and the efforts being made by the state government to keep the unorganised sector of e-Waste handlers at bay. He explained the different contours regarding e-Waste generation and its management in a bottom-up approach. The most crucial

stage of such management is the knowledge of e-Waste and the according treatment to be provided to it among each individual. It is a fundamental duty of every citizen to keep the environment healthy and clean.

He elaborated that e-Waste is evidently one of the fastest growing solid waste streams in our country. E-waste does not create visible mountains like municipal waste, nevertheless it is a very complex, non-biodegradable and toxic waste. Compounds found in electrical and electronic appliances are highly dangerous persistent organic pollutants that pose health and environment risks. They bio-accumulate through the food-chain and the hazards are more acute in the event of incorrect disposal and inappropriate recycling techniques. Mr. Singh said such awareness programs are a welcome note in the direction of e-Waste management.

Address by Chief Guest:



Mr. Vinod Kumar Agarwal, Mayor, Moradabad informed the gathering about the seriousness of the issue of mismanagement of e-Waste. He quoted about the quality of groundwater having been deteriorated to a hazardous level as compared to when the issue of e-Waste was not as prevalent. The growing dependence and the up gradation of technology have played a major part in the accumulation of such waste. Mr. Agarwal urged the gathering to take on the responsibility of e-Waste management as it is the household level at which great impact can be made. School children can adopt a standalone spirit to fight for the cause as the effect they will create will have a widespread reach.

Presentation by CEAMA:

Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning Strategy, CEAMA delivered an informative presentation on e-Waste and its appropriate management. He explained the goals of the awareness event and spoke on the same for the thorough understanding of what constitutes e-Waste, increasing risk factors that e-Waste has on India,

the appropriate by-laws governing e-Waste and to discuss and come to a conclusion on the responsibility of schools on promoting correct e-Waste management.

Furthering the campaign he elaborated the sources of e-Waste are consumer and lighting equipment, electrical and electronics tools, sophisticated toys, sports equipment, medical devices, monitoring and control instruments etc. The residues of digital life are too many.

He highlighted how rejected parts of electronic goods also constitute a huge portion of e-Waste and not only the end product we get after an appliance exhausts its life period. Though disposed electronics are classified as waste, they are significant secondary resources due to their suitability for direct reuse, refurbishment and recycling.

He displayed the gathering with handful pictures of the discarded e-Waste reaching the landfills and pose serious consequences to the human health and jeopardizing the environment. Landfills used for waste disposal are prone to leaking and also lead to leaching of heavy metals and other toxins into the soil which may contaminate not only the soil but also the water table. Mercury, cadmium and lead are among the most toxic lactates, e.g., lead from broken glass of TV's and monitors can expose lead to leaching. Landfills are also prone to uncontrolled fires which can release toxic fumes. Disposal through incineration is also dangerous as the residual ash contains toxic metals. The data with the global e-waste production is put at a staggering 16MT to which India's contribution is about 1.7MT making it the 5th highest producer of e-Waste.

He further explained that electronic and electrical appliances consist of thousands of different parts made of hundreds of different substances including plastics, metals, glass as well as organic and inorganic compounds. Compounds such as brominated flame retardants, metals like lead, mercury, cadmium and chromium compounds found in these appliances are highly dangerous persistent organic pollutants that pose health and environment risks. They bio-accumulate through the food-chain and the hazards are more acute in the event of incorrect disposal and inappropriate recycling techniques.

He explained where exactly the different elements are being used and how particularly they are affecting the overall human health. Mr. Rohit gave the example of very commonly used motherboards and how the element Beryllium used in them if left improperly discarded will lead to Lung cancer, chronic beryllium disease.

Incorrect recycling process such as open-air incineration, acid bath leaching are commonly used for recovery of precious metals from the e-waste. Irreparable damage is done to the environment during these processes when compared to the short term monetary gains.

The matters are not helped further by the fact that public at large remains unaware of their own toxic footprints and as part of its life-style replaces functional electronic gadgets with the latest model with impunity. This lack of awareness

is further aggravated by the lack of proper recycling facilities for e-waste in India.

The e-waste recycled by the formal recyclers is done following environmentally sound practices which ensure that damage is minimized to the environment. They also adopt processes so that the work force is not exposed to toxic and hazardous substances released while recycling the waste.

But they cannot match either the reach or the network of the informal recyclers used for sourcing of old electrical and electronics items from businesses as well as individual households. The items are collected, segregated and the ones that cannot be sold 'as it is' are further dismantled by the informal recyclers. The final step after collection, segregation and dismantling is recycling. Most of the processes used by the informal recyclers are manual using simple tools like hammers, screw drivers etc. and by the use of rudimentary techniques like burning of wires in open, using acid baths for extraction of precious metals. Furthermore, these activities are carried out without wearing any protective wear like masks, gloves etc. In the absence of suitable processes and protective measures, recycling e-waste results in toxic emission to the air, water, soil and poses a serious environmental and health hazard. Mr. Singh convinced how e-Waste can be better managed and channelized by creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has thus become e-Waste. Develop environmentally safe and sound recycling practices. Role of students and teachers. Making producers responsible to setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. He convinced the gathering on reducing hazardous substances in electrical and electronic components.

The pictorial representation created a direct impact among the attendees so that the purpose of the event if not completely but starts a motion in the correct direction of e-Waste management.



Mono ACT



Student performed a mono act on making a greener tomorrow. The participant showcased how since rapid industrialization human activity has affected the surroundings and environment at a large directly. If the activities remain uncontrolled and the resources keep on depleting, earth will not be left with the diverse life forms it has been boasting about.

EXTEMPORE ON E-WASTE



An extempore activity concluded the whole awareness event. The students gave insights on their understanding of the e-Waste. They clearly explained that electronic waste or e-waste is one of the rapidly growing environmental problems of the world. In India, the electronic waste management assumes greater significance not only due to the generation of our own waste but also dumping of e-waste particularly computer waste from the developed countries. With extensively using computers and electronic equipment's and people dumping old electronic goods for new ones, the amount of E-Waste generated has been steadily increasing. They alarmed for the need of better reach of the present laws and made an appeal to the gathering to consider e-Waste as a major threat to Mother Nature.

Charter Felicitation:



Distribution of e-Waste Charter to Schools:

e- Waste charter along with certificates was presented to the schools by Mr. Rohit Kumar Singh of CEAMA.



Snapshots:



Dealers 07

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative”

Panjim

22th July 2017 Panjim



Consumer Electronics and Appliances Manufacturers Association (CEAMA), established in the year 1978 an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT had organized an awareness programme on Environmental Hazards of Electronic Waste under the aegis of 'Digital India Initiative' for dealers in the city of Panjim.

This event is part of the umbrella project of 'Digital India' campaign launched by Government of India to aware citizens and in most targeted approach reach out to the students who would make the necessary changes in society in the coming days. The awareness programme aims to educate dealers about the effects of unsafe and unorganised disposal of e-Waste on the ecological surrounding and consequently on the environment on the broader horizon. The event saw attendance of around 50 participants at Hotel Varanda Do Mar, Panjim.

Agenda :

Awareness Program on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative on 22nd July, 2017, Hotel Varanda Do Mar, Panjim. PROGRAMME

First Session (9.00 AM-11.00 AM)

Sr.No	Session timing	Session topic
	1900 – 1930	Registration and distribution of posters Inaugural session
	1930 – 1935	Welcome address by Mr. Rohit Singh, Manager, Corporate Affairs, Planning & Strategy,
	0920 – 0925	CEAMA Presentation by Recycling Partner by Mr. Behram Toddywala, Reteck
	1935-2000	Address By Dr. Anamika Tripathi, Head of the Department (Botany), Hindu College Morad-abad
	2000 – 2130	Address by Mr. R.K. Singh, Regional officer, UP Pollution Control Board
	2000 – 2130	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA
	2130onwards	Dinner

Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA welcomed the attendees. He spoke about the foundations of the awareness program dating back to a speech delivered by Honourable Prime Minister of India Shri Narendra Modi at an event of NASSCOM where he had advised to regard e-Waste with at least the level of seriousness being given to everyday waste being generated at household level although keeping in mind the very different approach of disposal of the two. Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning

Strategy, CEAMA delivered a presentation on e-waste and its management for dealers. He explained the objectives of the programme and articulated on the same for the extensive and in-depth understanding of what constitutes e-Waste, escalating risk factors associated with e-Waste in India, the significant laws governing e-Waste and to discuss and come to a conclusion on the responsibility of dealers on promoting correct e-Waste management.

Proceeding with the event Mr Singh explained e-Waste means waste electrical and electronic equipment, whole or in part or rejects from their manufacturing and repair process, which are intended to be discarded. E-Waste consist of wastes generated from IT, Electronic and Electrical appliances that have reached “end of life”. They are the products that can no longer serve the purpose for which they were created. Electrical and Electronic products

include computers, monitors, printers, refrigerators, washing machines, air conditioners, telephones, mobiles, etc. E- Waste also includes parts and components that are rejected during the manufacturing or repair process He presented an elaborate insights to the dealers with couple of pictures of how the discarded e-Waste reach the landfills and pose grave consequences to the human health and the overall detrimental ecological impact it threatens the environment. The data with the global e-waste production is put at a staggering 16MT to which India’s contribution is about 1.7MT making it the 5th highest producer of e-Waste. Mr Singh shared how appliances and gadgets at the household and the IT industry level constitute the largest chunk of e-Waste in India.

Among the top ten cities generating E-waste, Mumbai ranks first followed by Delhi, Bengaluru, Chennai, Kolkata, Ahmedabad, Hyderabad, Pune, Surat and Nagpur. He also explained the risk factors associated with the e-Waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health if not handled in a directed process.

Lead, mercury and cadmium can cause irreversible damage to the central and peripheral nervous systems, effect brain development of children and cause damage to the circulatory system, kidneys and the reproductive system. Chromium has the potential to easily pass through cell membranes and is then absorbed, leading to various toxic effects. Some studies have shown that short-term exposure to beryllium, barium, and BFRs can cause serious health implications such as cancer.

Mr Singh expressed about the current practices being followed at different levels of handling the e-Waste. E-waste management in India is very complex due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of Electrical and electronic equipments, formal and informal recyclers, NGOs and the government. He explained how there are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is the hegemony of the informal sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

An in depth study of informal practices being followed at the grassroots level was presented with the aid of pictures of unscientific and unsafe practices being followed by the unorganized sector. Lack of knowledge among population most particularly women and children is a serious concern. The open dumping of e-Waste leading to the percolation of toxic waste into the soil and as a result entering the food chain is a lethal cause of concern and serious actions have to be taken as soon as possible. E-Waste (Management and Handling) Rules, 2016 notified in March 23, 2016 became effective from October 1, 2016 mandates the responsibility of dealers for handling of e-Waste

Stress was laid on creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has become e-Waste, developing environmentally safe and sound recycling practices, making producers responsible for setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Giving responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. Reducing hazardous substances in electrical and electronic components

A detailed analysis and breakup of the e-Waste at myriad level made the participants more logically aware about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding. Standard

life span of different electrical and electronic instruments was provided to the participants. The liability of dealers at various levels was explained in detail to provide them with the insights of step-by step handling of the e-Waste.

Mr. Behram Toddywala, Assistant Manager, Re-Teck delivered an interesting presentation on the burning issue of e-Waste and its management. He explained what exactly e-Waste is and the need for its management. He further went on to elaborate that e-Waste or Waste Electrical and Electronic Equipment (WEEE) encompasses discarded, surplus, broken, obsolete electrical and electronic devices like mobile phones, IT equipment, household appliances.

He painted the detailed picture of the components of e-Waste. E-waste contains harmful substances and components like lead, mercury cadmium, printed circuit boards, arsenic, silicon, chromium, barium, bromine, poly vinyl chloride and other heavy metals. E-waste is one of the fastest growing waste streams. In India it is growing at a rate of 30% per annum. The key reasons for this are increasing rate of consumption and high obsolescence rates due to technology up gradation.

Mr. Toddywala presented the gathering with factual data available regarding the e-Waste generation at the global level. A study says 50MT is generated globally. He elucidated that developed countries owing to their higher rate of technological advancement are generating larger chunks of e-Waste than the developing nations. It is the higher income and consequently higher consumption capacity that is making them the largest generators of such waste.

A greater importance was laid on the necessity of behavioral change required among stakeholders as it has been seen quite often that it is not the need for new technology but only the fascination for change that leads to stock piling of the obsolete devices.

A detailed analysis of the components of the e-Waste was discussed with the students to make an in-depth impact for the better understanding of e-Waste management. Due to the pervading reach of information technology in trade and commerce, computer waste is the most significant of all e-Waste, along with televisions and cellular phones.

E-waste contains both valuable as well as harmful components. Valuable components include precious metals such as gold, silver, copper, palladium. Harmful substances include lead, mercury, and cadmium. A lack of knowledge about the recovery of the valuable elements and unsafe discarding of poisonous elements into the environment is a serious cause of concern.

Mr. Toddywala elaborated about the highest production of e-Waste from the western region of India. He presented the analysis of some of the research data statistics which states that sixty five cities in India generate up to 60% of total e-waste. Ten states alone generate more than 70%

of total e-waste. It is estimated that only 1, 70,000 tonnes (only approx. 10%) of the total e-waste generated gets ultimately processed by the formal recycling sector. As per the study, around 94% of corporate in India do not have a policy on disposal of obsolete IT products/ e-Waste.

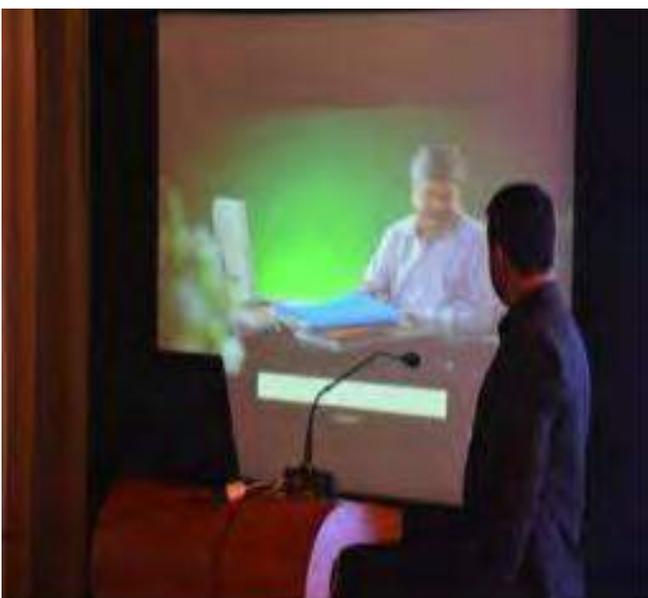
The gap between e-Waste being generated and that being collected by the recyclers is so wide that the effectiveness has fallen between the cracks. Further he presented the crowd with some images of unsafe methods of e-Waste recycling, how the components are being kept without organising them for their respective uses. This will only lead to wastage of those parts which could have been put to a better use.

A study performed by Ehime University in Japan highlighted on cases where improper management of e-waste had led to toxins in breast milk found in samples collected from Kolkata, Chennai, Bengaluru, Chidambaram. E-Waste reaching the landfills reaches the food chain and is being ingested by both human and other beings.

He explained the role that Re-Teck is playing by providing reverse value chain services in the electronic industry in India and globally. Mobile Devices, phones, tablets, connected devices, Computer products and peripherals, desktop PCs, notebooks, accessories & storage devices are to name a few products where Re-teck is providing recycling and associated services.



Snapshot:



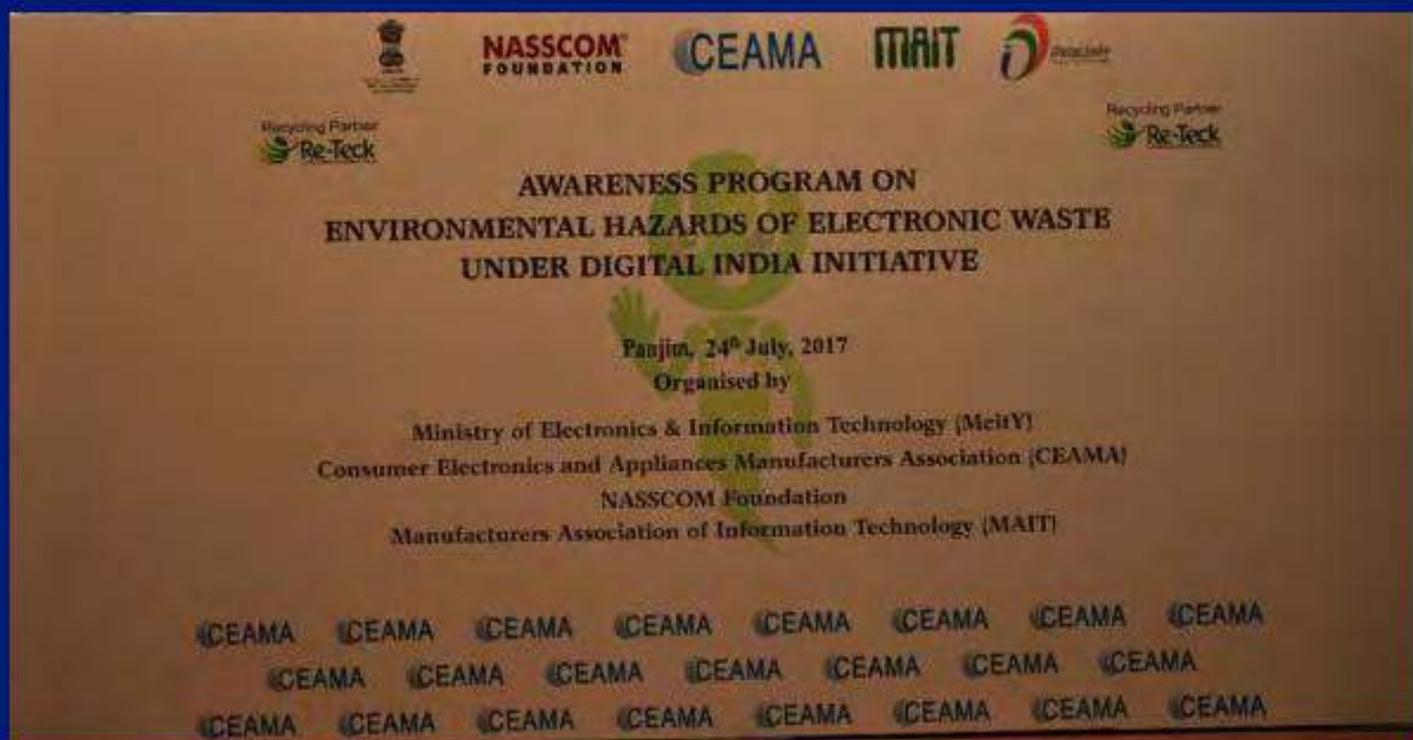
Schools

7.1

Panjim

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative”

24th July 2017, Panjim



The vibrant city of Panjim, Goa hosted an awareness programme on Environmental Hazards of Electronic Waste under the aegis of ‘Digital India Initiative’ for schools which was organised by Consumer Electronics and Appliances Manufacturers Association (CEAMA) in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT.

This event is part of the umbrella project of ‘Digital India’ campaign launched by Government of India to aware citizens and in most targeted approach reach out to the students who would make the necessary changes in society in the coming days. The awareness programme aims to educate students, parents and teachers about the repercussions of unsafe and unorganised disposal of e-Waste on the ecological surrounding and consequently on the environment on the broader horizon.

The programme was held in two sessions at Kala Mandir, Pajim which was attended by a gathering of more than 1100 including teachers and students ranging from 6 different schools of Pajim. The participating schools were:

- People’s Higher Secondary School
- Santa Cruz High School
- Our Lady of Mercies
- Kasturba Matoshri Progress High School
- St. Thomas Boys High School
- Sunshine International School
- People’s High School
- People’s High Secondary School

Agenda :

Awareness Program on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative on 24th July, 2017, Panjim

First Session (9.00 AM-11.00 AM)

Sr.No	Session timing	Session topic
01	0900 – 0915	Registration and distribution of posters Inaugural session
02	0915 – 0920	Welcome address by Mr. Rohit Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA
03	0920 – 0925	Address by recycling Partner: Mr. Behram Toddy, Reteck
05	0925- 0945	Address by Mr. R.K. Singh, Regional officer, UP Pollution Control Board
06	0945– 1030	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Sing , Manager , Corporate Affairs, Planning & Strategy, CEAMA
07	1030 -1035	Mime Act- Greene today Greene tomorrow
08	1035 -1100	JAM Session (Just A Minute)- An extempore competition
09	1030 -1115	Distribution of e-Waste Charter and Certificates
10	1115 -1125	Vote of thanks by Mr. Shantanu Das Gupta, CEAMA
11	1125 onwards	E waste Collection & Distribution of refreshments

Welcome Address:



Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA welcomed the attendees. He spoke about the foundations of the awareness program dating back to a speech delivered by Honourable Prime Minister of India Shri Narendra Modi at an event of NASSCOM where he had advised to regard e-Waste with at least the level of seriousness being given to everyday waste being generated at household level although keeping in mind the very different approach of disposal of the two.

Mr. Behram Toddywala, Assistant Manager, Re-Teck delivered an interesting presentation on the burning issue of e-Waste and its management. He explained what exactly e-Waste is and the need for its management. He further went on to elaborate that e-Waste or Waste Electrical and Electronic Equipment (WEEE) encompasses discarded, surplus, broken, obsolete electrical and electronic devices like mobile phones, IT equipment, household appliances.

He painted the detailed picture of the components of e-Waste. E-waste contains harmful substances and components like lead, mercury cadmium, printed circuit boards, arsenic, silicon, chromium, barium, bromine, poly vinyl chloride and other heavy metals. E-waste is one of the fastest growing waste streams. In India it is growing at a rate of 30% per annum. The key reasons for this are increasing rate of consumption and high obsolescence rates due to technology up gradation.

A greater emphasis was laid on the behavioral change among stakeholders as it has been seen quite often that it is not the need for new technology but only the fascination for change that leads to stock piling of the obsolete devices. Mr. Toddywala elaborated about the highest production of e-Waste from the western region of India. He presented the analysis of some of the research data statistics which states that sixty five cities in India generate up to 60% of total e-waste. Ten states alone generate more than 70% of total e-waste. It is estimated that only 1, 70,000 tonnes (only approx. 10%) of the total e-waste generated gets ultimately processed by the formal recycling sector. As per the study, around 94% of corporate in India do not have a policy on disposal of obsolete IT products/ e-Waste.

The gap between e-Waste being generated and that being collected by the recyclers is so wide that the effectiveness has fallen between the cracks. Further he presented the crowd with some images of unsafe methods of e-Waste recycling, how the components are being kept without organising them for their respective uses. This will only lead to wastage of those parts which could have been put to a better use.

A study conducted by Ehime University in Japan highlighted on cases where improper management of e-waste had led to toxins in breast milk in samples collected from Kolkata, Chennai, Bengaluru, Chidambaram. E-Waste reaching the landfills reaches the food chain and is being ingested by both human and ecological beings.

Presentation by CEAMA:

Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA presented the participants with a comprehensive information on e-Waste and its management. He explained the aims and objectives of the event and elaborated on the same for the thorough understanding of what e-Waste comprises of, escalating

risk factors that e-Waste poses on India, the relevant laws governing e-Waste and to discuss and come to an inference on the accountability of schools on promoting correct e-Waste management.

Furthering the event Mr Singh explained e-Waste means waste electrical and electronic equipment, whole or in part or rejects from their manufacturing and repair process, which are intended to be discarded. E-Waste consist of wastes generated from IT, Electronic and Electrical appliances that have reached "end of life". They are the products that can no longer serve the purpose for which they were created. Electrical and Electronic products include computers, monitors, printers, refrigerators, washing machines, air conditioners, telephones, mobiles, etc. E-Waste also includes parts and components that are rejected during the manufacturing or repair process

He presented the students with some pictures of how the discarded e-Waste reach the landfills and pose serious consequences to the human health and the overall detrimental ecological impact it threatens the environment. The data with the global e-waste production is put at a staggering 16MT to which India's contribution is about 1.7MT making it the 5th highest producer of e-Waste.

Ever increasing electronic item consumption trend in the form of gadgets, appliances was found to be the leading cause of the growing e-Waste. He explained the risk factors associated with the e-waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health. Printed Circuit Board (PCB) commonly called as motherboard, contains complex elements and needs a very careful handling for recovery of precious metals and for minimizing impact on the environment during recovery processes.

Tampering, openly disposing of and not adopting scientific environment friendly processes to recycle or recover precious metals from E-waste can result in large emissions of hazardous substances, causing serious damage to health and environment. Metals such as lead, mercury and cadmium can cause damage to the central and peripheral nervous systems, effect brain development of children and cause damage to the circulatory system, kidneys and the reproductive system. Chromium has the potential to easily pass through cell membranes and is then absorbed, leading to various toxic effects. Some studies have shown that short-term exposure to beryllium, barium, and BFRs can cause serious health implications such as cancer.

Mr. Rohit detailed the audience on the current practices being followed at different levels of handling the e-Waste. E-waste management in India is extremely complex because of the presence of numerous stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and

producers of Electrical and electronic equipment, formal and informal recyclers, NGOs and the government.

There are no stringent regulations for the public / individual consumers to be bound and responsible for their e-wastes handling. A major issue is the dominance of the unorganized sector which manages more than 90% of India's e-Waste through unscientific processes for dismantling, recycling and disposal. Proceeding with the event Mr. Rohit expressed how informal handling of the e-Waste is causing serious damage to the environment.

Mr. Singh conveyed how e-Waste can be better managed and channelized by creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has thus become e-Waste Develop environmentally safe and sound recycling practices. Making producers responsible to setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. He convinced the gathering on reducing hazardous substances in electrical and electronic components.

A detailed analysis and breakup of the e-Waste at different level made the attendees more practically aware about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding.



GreenE TALK BY STUDENTS

An extempore was arranged wherein students participated by sharing about their understanding on e-Waste and its administration and took the determination to minimise and regulate the burgeoning trouble of unorganised and unsafe disposal practices being followed for e-Waste at their respective level.



Distribution of e-Waste Charter to Schools:

e- Waste charter along with certificates was presented to the schools by Mr. Rohit Kumar Singh of CEAMA and Mr. Behram Toddywala, Reteck.



MIME Act

An educative performance in the form of a skit was presented by the students. With the determination to protect Mother Nature the students showcased the ill-effects of unregulated and uncontrolled external pressure being created by human activities. They made the point crystal clear if we do not keep a check on such activities, the day is not far behind we will not have the resources that we claim as our asset.



Snapshot



Dealers 08

Patna

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative”

14th July 2017 Patna



Consumer Electronics and Appliances Manufacturers Association (CEAMA), established in the year 1978 an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT had organized an awareness programme on Environmental Hazards of Electronic Waste under the aegis of ‘Digital India Initiative’ for dealers in the city of Patna.

The awareness event is part of the sensitisation program to impart basic knowledge to the dealers associated with electrical and electronics instruments about e-waste, ever increasing ecological and environmental concerns as a result of wrong methods of disposal mechanisms being practiced for such waste. The programme elucidated on the discrete steps of recycling and correct disposal of e-waste at different levels and the broad responsibilities of associated dealers. The event saw attendance of around 50 participants at Gargi Grand Hotel, Patna.

Welcome Address:

The event started with the warm welcome address by Mr. Rohit Kumar Singh , Manager, Corporate Affairs, Planning & Strategy, CEAMA. He briefed the gathering how the awareness program was envisioned by Honourable Prime Minister of India Shri Narendra Modi Ji at an event of NASSCOM where he had advised to consider e-Waste vis-a-vis with ordinary garbage although keeping in mind the very different approach of disposal of the two.

Address by Chief Guest:



Dr. Naveen Kumar, Scientist State Pollution Control Board (Bihar) elaborated on the new rules initiated by Government of India for the disposal of e-Waste in 2016. He discussed how the loopholes in the previous mandates have been tried to be filled with better rules. He explained how human activities have impacted the environment. The staggering figures of the solid waste generated were informed to the gathering to provide them with the ground realities. He also imparted with the hard hitting facts of how electrical and electronic instruments have become part and parcel of human life. Developed countries have a substantial fraction of e-Waste comprising their solid waste due to the greater dependence on such gadgets but he mentioned keeping in view the trend of growth in the IT sector and consumption of such products in India, that day is not far behind when India will become a major producer of e-Waste.

Presentation by Retek:



Mr. Behram Toddy, Assistant Manager, Re-Teck enlightened the gathering by sharing his insights by outlining the basic concepts of e-Waste. He explained what constitutes e-Waste. He furthered the session by elaborating how e-Waste is one of the fastest growing wastes in India and the huge rate of 305 per annum at which it is increasing. The rate of development in technology is proportionately increasing the e-Waste a country is generating. All the

components of electrical and electronic equipment constitute e-Waste when it exhausts its life-span. There are two types of e-Waste:

- Valuable
- Harmful

Valuable entities coming out of the e-Waste are metals like Gold, Silver, Copper, Platinum, Palladium and many such useful metals.

Harmful by-products of e-Waste are Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health.

Mr. Toddy elaborated about the highest production of e-Waste from the western region of India. He presented the analysis of some of the research data statistics which states that sixty five cities in India generate up to 60% of total e-waste. Ten states alone generate more than 70% of total e-waste. It is estimated that only 1,70,000 tonnes (only approx. 10%) of the total e-waste generated gets ultimately processed by the formal recycling sector. As per the study, around 94% of corporate in India do not have a policy on disposal of obsolete IT products/ e-Waste.

He threw light on the huge gap in the amount e-Waste being generated and the e-Waste being received by the recyclers is of a large magnitude. The detrimental methods adopted by informal sector in treating the printed circuit boards (PCBs) is a grave concern as people in the unorganized sector just burn the PCBs without much realizing about the components that can be recycled from them and consequentially expose themselves to the hazardous fumes that are generated while burning them.

Mr. Toddywala highlighted on cases where improper management of e-waste had led to toxins in breast milk in samples collected from different locations. E-Waste reaching the landfills reaches the food chain and are being ingested by both human and ecological beings.

He explained the role that Re-Teck is playing by providing reverse value chain services in the electronic industry in India and globally.

Presentation by CEAMA:

Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning

Strategy, CEAMA delivered a presentation on e-waste and its management for dealers. He explained the objectives of the programme and articulated on the same for the extensive and in-depth understanding of what constitutes e-Waste, escalating risk factors associated with e-Waste in India, the significant laws governing e-Waste and to discuss and come to a conclusion on the responsibility of

dealers on promoting correct e-Waste management.

Furthering the event Mr Singh explained e-Waste consists of the wastes generated from electronic and electrical appliances of our daily use like computers, mobile phones air conditioners and many such things. He emphasized on how rejected parts of electronic goods also constitute a substantial part of e-Waste and not only the end product we get after an appliance exhausts its life period.

He presented an elaborate insight to the dealers with many pictures of how the discarded e-Waste reach the landfills and pose grave consequences to the human health and the overall detrimental ecological impact it threatens the environment. The data with the global e-waste production is put at a staggering 16MMT to which India's contribution is about 1.7MMT making it the 5th highest producer of e-Waste. Mr Singh shared how appliances and gadgets at the household and the IT industry level constitute the largest chunk of e-Waste in India.

He also explained the risk factors associated with the e-Waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health if not handled in a directed process.

Lead, mercury and cadmium can cause irreversible damage to the central and peripheral nervous systems, effect brain development of children and cause damage to the circulatory system, kidneys and the reproductive system. Chromium has the potential to easily pass through cell membranes and is then absorbed, leading to various toxic effects. Some studies have shown that short-term exposure to beryllium, barium, and BFRs can cause serious health implications such as cancer.

Mr Singh threw light on the current practices being followed at different levels of handling the e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government. He explained how there are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is the hegemony of the informal sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

An in depth study of informal practices being followed at

the grassroots level was presented with the aid of pictures of unscientific and unsafe practices being followed by the unorganized sector. Lack of knowledge among population most particularly women and children is a serious concern. The open dumping of e-Waste leading to the percolation of toxic waste into the soil and as a result entering the food chain is a lethal cause of concern and serious actions have to be taken as soon as possible.

E-Waste (Management and Handling) Rules, 2016 notified in March 23, 2016 became effective from October 1, 2016 mandates the responsibility of dealers for handling of e-Waste

Emphasis was laid on creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has become e-Waste, developing environmentally safe and sound recycling practices, making producers responsible for setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Giving responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. Reducing hazardous substances in electrical and electronic components

A detailed analysis and breakdown of the e-Waste at different level made the attendees more practically aware about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding. Average life span of different electrical and electronic instruments was provided to the participants. The responsibility of dealers at various levels was explained in detail to provide them with the insights of step-by step handling of the e-Waste.

Mr. Singh also provided them with a check list of things which they must consider in respect with proper management of e-Waste:

- Keep track of developments on e-Waste
- Know who are authorized recyclers in your city (CPCB Website)
- Visit www.greene.net.in & Download greene App
- Ascertain from brands that Have they set up Collection Centres or Collection Points in your city and Details of their helplines/website/apps where information can be obtained on their e-Waste system
- Educate customers about their responsibilities as articulated in the Rules
- When a customer is buying a new product, ask them: what are they doing with the old product?
- Inform customers about the facilities brands have provided for channelization of e-Waste
- Allow brands to put up Posters and Collection Bins at their store.



Snapshot



Address by Special Guest:

Mr. I. N. Jha, Director of Institute of Environment and Eco Development, Bihar took a new note to the discussion of e-Waste management by explaining it as wealth as it provides with valuable components even at discarded state. He emphasized on the importance of segregation of e-Waste at household level. He also highlighted about the lackadaisical attitude among users of electronic products that they show when the product reaches end-life. Instead of proper disposal despite knowing the correct procedure people tend to dump the e-Waste with other solid waste which is adding on the problems associated with e-waste management issue. There is a strong necessity to change such attitude.

Mr. Jha spoke about the responsibility of educating the consumers about the serious concern of e-Waste by educative posters, messages and slogans to have a more in-depth impact.



Felicitation of e-Waste Charter:

Schools

8.1

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative”

Patna

14th July 2017, Patna



Consumer Electronics and Appliances Manufacturers Association (CEAMA), established in the year 1978 is an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT had organized an awareness programme on Environmental Hazards of Electronic Waste under the aegis of ‘Digital India Initiative’ for schools in the city of Ranchi.

The awareness event is part of the sensitisation program to educate the teachers, students and parents about e-waste, escalating environmental issues consequential to the improper disposal of such waste. The programme threw light on the discrete steps of recycling and correct disposal of e-waste at various levels.

The programme was held in two sessions at Bhartiya Kala Mandir, Patna which was attended by a gathering of around 1000 including teachers and students ranging from 4 schools of Patna. The participating schools were:

- SDV Public School
- Ikon Public School
- Gurukul Shiksha Niketan

Agenda :

Awareness Program on Environmental Hazards of Electronic Waste” under the
‘Digital India Initiative on 14th July, 2017, Patna

First Session (9.00 AM-11.00 AM)

Sr.No	Session timing	Session topic
	09.00 AM – 09.30	Registration of the participating Inaugural session
	09.30 AM – 09.35	Welcome Address Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA
	09.35 AM. – 09:40	Address By Mr Jitendera Singh, Senior Consultant, IT Department (Not able to attend the program)
	0925- 0945	Address by Mr. R.K. Singh, Regional officer, UP Pollution Control Board
	09:40 AM – 09.50	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy, CEAMA
	1030 -1035	Greene Talk by Students
	10.50 AM - 11.15	Certificate and Charter Distribution
	11:15 AM – 11.20	Vote of Thanks by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy, CEAMA

REGISTRATION PROCESS

Registration process began with the distribution of Greene badges with the pledge for making greener tomorrow.



Welcome Address:



The event kick-started with the warm welcome address by Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA. He informed the gathering how the awareness program was envisioned by Honourable Prime Minister of India Shri Narendra Modi Ji at an event of NASSCOM where he had advised to consider e-Waste vis-a-vis with ordinary garbage although keeping in mind the very different approach of disposal of the two.

Address by Retek:



Mr. Behram Toddy, Assistant Manager, Re-Teck enlightened the gathering by sharing his insights by outlining the basic concepts of e-Waste. He explained what constitutes e-Waste. He furthered the session by elaborating how e-Waste is one of the fastest growing wastes in India and the huge rate of 305 per annum at which it is increasing. The rate of development in technology is proportionately increasing the e-Waste a country is generating. All the components of electrical and electronic equipment constitute e-Waste when it exhausts its life-span. There are two types of e-Waste:

- Valuable
- Harmful

Valuable entities coming out of the e-Waste are metals like Gold, Silver, Copper, Platinum, Palladium and many such

useful metals.

Harmful by-products of e-Waste are Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health.

Mr. Toddy elaborated about the highest production of e-Waste from the western region of India. He presented the analysis of some of the research data statistics which states that sixty five cities in India generate up to 60% of total e-waste. Ten states alone generate more than 70% of total e-waste. It is estimated that only 1,70,000 tonnes (only approx. 10%) of the total e-waste generated gets ultimately processed by the formal recycling sector. As per the study, around 94% of corporate in India do not have a policy on disposal of obsolete IT products/ e-Waste.

He threw light on the huge gap in the amount e-Waste being generated and the e-Waste being received by the recyclers is of a large magnitude. The detrimental methods adopted by informal sector in treating the printed circuit boards (PCBs) is a grave concern as people in the unorganized sector just burn the PCBs without much realizing about the components that can be recycled from them and consequentially expose themselves to the hazardous fumes that are generated while burning them.

Mr. Toddy highlighted on cases where improper management of e-waste had led to toxins in breast milk in samples collected from different locations. E-Waste reaching the landfills reaches the food chain and are being ingested by both human and ecological beings.

He explained the role that Re-Teck is playing by providing reverse value chain services in the electronic industry in India and globally.

Presentation by CEAMA:



Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA delivered a presentation on e-waste and its management. He explained the purpose of the programme and elaborated on the same for the comprehensive understanding of what constitutes e-Waste, escalating risk factors that e-Waste poses on India, the relevant laws governing e-Waste and to discuss and come to a conclusion on the responsibility of schools

on promoting correct e-Waste management.

Mr Singh explained e-Waste consists of the wastes generated from electronic and electrical appliances of our daily use like computers, mobile phones air conditioners and many such things. He highlighted how rejected parts of electronic goods also constitute a huge portion of e-Waste and not only the end product we get after an appliance exhausts its life period.

He presented the students with some pictures of how the discarded e-Waste reach the landfills and pose serious consequences to the human health and the overall detrimental ecological impact it threatens the environment. The data with the global e-waste production is put at a staggering 16MMT to which India's contribution is about 1.7MMT making it the 5th highest producer of e-Waste.

Growing electronic item consumption trend in the form of gadgets, appliances was found as the leading cause of the growing e-Waste. He explained the risk factors associated with the e-waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health.

Mr. Singh threw light on the current practices being followed at different levels of handling the e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government. There are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is the dominance of the unorganized sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

Mr. Singh conveyed how e-Waste can be better managed and channelized by creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has thus become e-Waste Develop environmentally safe and sound recycling practices. Making producers responsible to setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. He convinced the gathering on reducing hazardous substances in electrical and electronic components.

A detailed analysis and breakdown of the e-Waste at different level made the attendees more practically aware about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding.

GreenE TALK BY STUDENTS:

An activity was arranged wherein students participated by sharing about their knowledge of the e-Waste and its management and took the pledge to control the growing problem of improper disposal of e-Waste at their respective level. There were a total of four participants from Ikon Public school and SDV Public school, two from each.

Devanand Kumar
Vishnu Raj
Ravi Ranjan
Abhishek Raj



e-Waste Charter presented to Schools:



Recycling Certificate:

Form - 8 (New rule 19)		103
E-WASTE MANIFEST		
1. Sender's name and mailing address (including Phone No.)	CEAPPA Shankar, Nishita, Kala, Masadi, S6, Frigate Rd, Rajapur, Raj 31 Salma, Andhra Pradesh, India	
2. Sender's authorisation No, if applicable.	-	
3. Manifest Document No.	N/A	
4. Transporter's name and address (including Phone No.)	Aravind Courier	
5. Type of vehicle	(Truck or Tanker or Special Vehicle)	
6. Transporter's registration No.	MH-48-T-133	
7. Vehicle registration No.	MH-48-T-133	
8. Receiver's name & address	RATHE ELECTRONIC REPAIR TOLLA, POLICE STATION, RAJAPUR	
9. Receiver's authorisation No, if applicable.	MH/RAJAPUR/REG/ELW/RAJAPUR/0308	
10. Description of E- Waste (Item, Weight / Numbers)	E- Waste (22 kg)	
11. Name and stamp of Sender* (Manufacturer or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler): Signature: _____ Month _____ Day _____ Year 14 07 20 17		
12. Transporter acknowledgement of receipt of E-Wastes Name and stamp: _____ Signature: _____ Month _____ Day _____ Year 14 07 20 17		
Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler) Name and stamp: _____ Signature: _____ Month _____ Day _____ Year 14 07 20 17		

Vote of Thanks:

In the final note Mr. Rohit Kumar Singh gave the vote of thanks to the audience for their cordial presence and imparted final words of encouragement for the correct disposal of e-waste.

Snapshots:

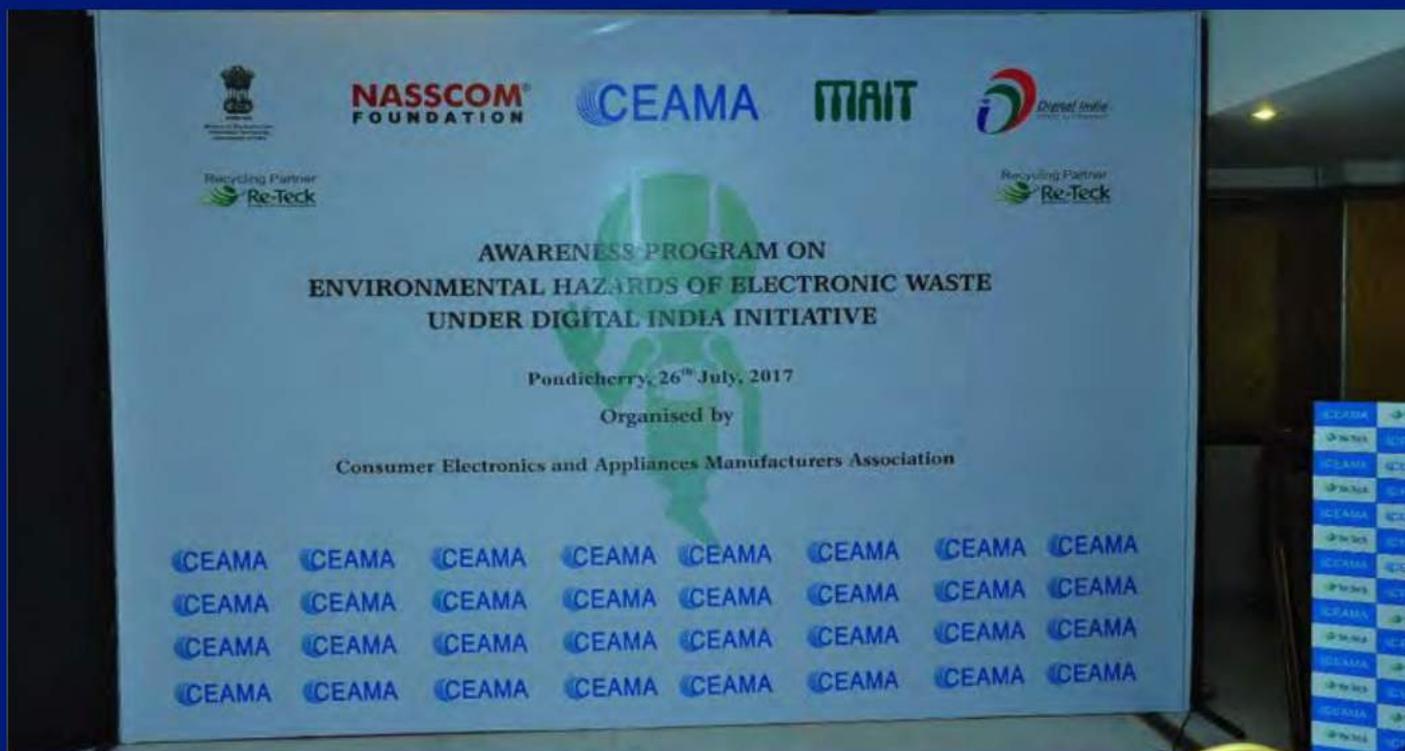


Dealers 09

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative”

Puducherry

26th July 2017 Pudducherry



The sublime city of Puducherry played host to an awareness programme on Environmental Hazards of Electronic Waste under the aegis of ‘Digital India Initiative’ for schools in the city of Indore was organised by Consumer Electronics and Appliances Manufacturers Association (CEAMA), an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT

The awareness event is part of the sensitisation program to impart basic knowledge to the dealers associated with electrical and electronics instruments about e-waste, ever increasing ecological and environmental concerns as a result of wrong methods of disposal mechanisms being practiced for such waste. The programme elucidated on the discrete steps of recycling and correct disposal of e-waste at different levels and the broad responsibilities of associated dealers. The event saw attendance of around 40 dealers in the city of Pudducherry.



First Session (9.00 AM-11.00 AM)

Sr.No	Session timing	Session topic
	1900 – 1930 AM	Registration of the participating Inaugural session
	1930 – 1935	Welcome address by Mr. Rohit Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA
	1935 – 2100	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA
07	2100onwards	Dinner

The awareness program started off with the welcome address of Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA in his address to the session, explained about the aims and objectives of the workshop that it intends to achieve as part of 5 year programme creating awareness on “Environmental Hazards of Electronic Waste” under Digital India initiative of MeitY.

He informed the gathering how the idea of awareness program was conceived by Honourable Prime Minister of India Shri Narendra Modi Ji at an event of NASSCOM where he had advised to consider e-Waste vis-a-vis with ordinary garbage of course keeping in mind the very different approach of disposal of the two.

Presentation by CEAMA:

Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning Strategy, CEAMA delivered a presentation on e-waste and its management for dealers. He explained the objectives of the programme and articulated on the same for the extensive and in-depth understanding of what constitutes e-Waste, escalating risk factors associated with e-Waste in India, the significant laws governing e-Waste and to discuss and come to a conclusion on the responsibility of dealers on promoting correct e-Waste management.

Furthering the event Mr Singh explained e-Waste consists of the wastes generated from electronic and electrical appliances of our daily use like computers, mobile phones air conditioners and many such things. He emphasized on how rejected parts of electronic goods also constitute a substantial part of e-Waste and not only the end product we get after an appliance exhausts its life period.

He presented an elaborate insights to the dealers with some pictures of how the discarded e-Waste reach the landfills and pose grave consequences to the human health and the overall detrimental ecological impact it threatens the environment. The data with the global e-waste production is put at a staggering 16MT to which India's contribution is about 1.7MT making it the 5th highest producer of e-Waste. Mr Singh shared how appliances and gadgets at the household and the IT industry level constitute the largest chunk of e-Waste in India.

He further explained the risk factors associated with the e-Waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health if not handled in a directed process.

Lead, mercury and cadmium can cause irreversible damage to the central and peripheral nervous systems, effect brain development of children and cause damage to the circulatory system, kidneys and the reproductive system. Chromium has the potential to easily pass through cell membranes and is then absorbed, leading to various toxic effects. Some studies have shown that short-term exposure to beryllium, barium, and BFRs can cause serious health implications such as cancer.

Mr Singh threw light on the current practices being followed at different levels of administering e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of Electrical and electronic equipments, formal and informal recyclers, NGOs and the government. He explained how there are no appropriate regulations for the

public / individual consumers to be bound and responsible for their E-wastes. A major issue is the hegemony of the informal sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

An in depth study of informal practices being followed at the grassroots level was presented with the aid of pictures of unscientific and unsafe practices being followed by the unorganized sector. Lack of knowledge among population most particularly women and children is a serious concern. The open dumping of e-Waste leading to the percolation of toxic waste into the soil and as a result entering the food chain is a lethal cause of concern and serious actions have to be taken as soon as possible.

E-Waste (Management and Handling) Rules, 2016 notified in March 23, 2016 became effective from October 1, 2016 mandates the responsibility of dealers for handling of e-Waste. Importance was laid on creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has become e-Waste, developing environmentally safe and sound recycling practices, making producers responsible for setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Giving responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. Reducing hazardous substances in electrical and electronic components

A detailed analysis and breakdown of the e-Waste at different level made the attendees more practically aware about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding. Average life span of different electrical and electronic instruments was provided to the participants. The responsibility of dealers at various levels was explained in detail to provide them with the insights of step-by step handling of the e-Waste.

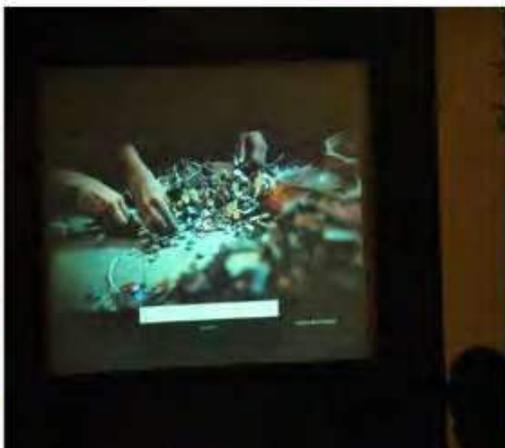
Accountability on consumers or bulk consumers shall ensure that e-waste generated by them is channelized through collection centre or dealer of authorized producer or dismantler or recycler or through the designated take back service provider of the producer to authorized dismantler or recycler. Bulk consumers shall maintain record of e-waste generated by them in Form-2 and make such records available for scrutiny by the concerned State Pollution Control Board. Consumers or bulk consumers shall ensure that such end-of-life electrical and electronic equipment are not mixed with e-waste containing radioactive material as covered under the provisions of the Atomic Energy

Act, 1962 (33 of 1962) and rules made there under. Bulk consumers shall file annual returns in Form-3, to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates. In case of the bulk consumer with multiple offices in a State, one annual return combining information from all the offices shall be filed to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

Mr. Singh claimed that producers must collect and channelize e-waste generated from 'end-of-life' products to certified recyclers. They may use several methods/ schemes to streamline e-Waste and such scheme should be explained in the authorization document. These could include incentivizing return of e-waste by consumers/ bulk consumers whether through dealers or buy-back arrangements or take-back systems or exchange scheme for channelization of e-waste, managing the process individually or collectively through a Producer Responsibility Organization, where a set of producers set up a common/shared collection and channelization mechanism. Supervising collection through a 'Deposit Refund Scheme' (DRS) or exchange scheme for collection and channelization of e-waste must be done, producer must provide contact details such as address, e-mail address, toll-free telephone numbers or helpline numbers to consumers or bulk consumers through their website and product user documentation so as to facilitate return of end-of-life electrical and electronic equipment and finally he said producers must create awareness through media, publications, advertisements, posters, or by any other means of communication.

In the final note Mr. Singh lucidly explained as well as encouraged how a shift from unorganized and informal e-waste management to an effective and complete treatment of the waste has to be done by shifting from manual to automated processing for the least errors, from unsafe to safe practices and most importantly from dumping to recycling. He motivated the dealers by sharing how at their individual level e-Waste can be managed in a systemic and planned approach.

Snapshot



Schools 9.1

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative”

Puducherry

26th July 2017 Pudducherry



The sublime city of Puducherry played host to an awareness programme on Environmental Hazards of Electronic Waste under the aegis of ‘Digital India Initiative’ for schools in the city of Indore was organised by Consumer Electronics and Appliances Manufacturers Association (CEAMA), an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT. This awareness event is a part of the umbrella project of ‘Digital India’ campaign launched by Ministry of Electronics and Information Technology (MeitY) under Government of India to aware citizens and in most importantly students who would be the trailblazers to make apt changes in society in the coming days. The awareness programme aims to teach students, parents and teachers about the ill-effects of unsafe and unorganised disposal of e-Waste on the ecological surrounding and consequently on the environment on the broader horizon.

A huge gathering of more than 1000 students were present at the event from 6 different schools across the city. The participating schools were as follows:

- Amalorpawam Higher Secondary School
- Jothi Vallar Higher Secondary School
- Shri Rama Krishna Vidyalyaya Higher Secondary School
- Galaxy High School



Agenda :

Awareness Program on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative on 26th July, 2017, Patna

Sr.No	Session timing	Session topic
	0900 – 0915	Registration and distribution of posters Inaugural session
	0915 – 0920	Welcome address by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy,
	0920 – 0925	CEAMA Special address by Mr.Prodip Mukhopadyay, General Manager Webel
	0925- 0925	Special address by Dr. Ramesh, Sr. Environment Engineer, Department of Science, Technolo-gy and Environment, Pudducherry
	0925- 0945	Address by Mr. R.K. Singh, Regional officer, UP Pollution Control Board
	0945– 1030	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy, CEAMA
07	1030 -1035	Mime Act- Greene today Greene tomorrow
08	1035 -1100	JAM Session (Just A Minute)- An extempore competition
09	1030 -1115	Distribution of e-Waste Charter and Certificates
10	1115 -1125	Vote of thanks by Mr. Shantanu Das Gupta, CEAMA
11	1125 onwards	E waste Collection & Distribution of refreshments

The second session was conducted between 11.30 AM and 1.30 PM followed the same agenda as above.

Registration of the Program:

Both the session began with the formal registration process, followed by the Inaugural Session



Welcome Address:

The awareness program started off with the welcome address of Mr. Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA in his address to the session, explained about the aims and objectives of the workshop that it intends to achieve as part of 5 year programme creating awareness on "Environmental Hazards of Electronic Waste" under Digital India initiative of MeitY.

He informed the gathering how the idea of awareness program was conceived by Honourable Prime Minister of India Shri Narendra Modi Ji at an event of NASSCOM where he had advised to consider e-Waste vis-a-vis with ordinary garbage of course keeping in mind the very different approach of disposal of the two.



Presentation by CEAMA:

Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning

Strategy, CEAMA gave a presentation on e-waste and its management. He explained the purpose of the programme and expressed on the same for the detailed understanding of what constitutes e-Waste, burgeoning risk factors that e-Waste poses on India, the relevant laws governing e-Waste and to discuss and come to a conclusion on the responsibility of schools on promoting correct e-Waste management. This programme intends to consolidate all the initiatives under one roof and cover the length and breadth of the country and make sure the e-waste reaches the formal channels so that proper management can be done, making people aware about the safe disposal of electronic products.

Proceeding on with the event Mr Singh explained e-Waste consists of the wastes coming out from electronic and electrical appliances of our daily use like computers, mobile phones air conditioners and many such things. He highlighted how rejected parts of electronic goods also constitute a huge portion of e-Waste and not only the end product we get after an appliance exhausts its life period. He exhibited the students with some images of how the discarded e-Waste reach the landfills and pose serious consequences to the human health and the overall detrimental ecological impact it threatens the environment. The data with the global e-waste production is put at a staggering 16MT to which India's contribution is about 1.7MT making it the 5th highest producer of e-Waste.

Growing electronic item consumption trend in the form of gadgets, appliances was found as the leading cause of the growing e-Waste. He explained the risk factors associated with the e-waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health.

He explained where exactly the different elements are being used and how particularly they are affecting the



Address by Chief Guest:

Dr. Ramesh, Sr. Environment Engineer, Department of Science, Technology and Environment, Puducherry spoke elegantly about the prevailing circumstances regarding e-Waste and its management in Puducherry and painted a larger picture of the practices being followed pan-India. He talked about the substandard level of awareness regarding e-waste among various stakeholders.

He further went on to add how most of the people dispose their electronic goods at the end of its life without being concerned about the efficient and effective disposal of the product and the consequent environmental hazard it may afflict not only on the environment but also human health. He also highlighted the colossal scale of implications that may result if e-waste which contains carcinogens like lead, cadmium and many more will be burnt and treated the same way other wastes are being treated which are causing perennial haze around different cities and causing catastrophic health hazards these days. Further he adds that the initiatives that have been taken up by different stakeholders in the past 10 years have been in small pockets, hence a consolidated effort is the need of hour.

overall human health. Mr. Rohit gave the example of very commonly used motherboards and how the element Beryllium used in them if left improperly discarded will lead to Lung cancer, chronic beryllium disease.

Mr. Singh explained on the present practices being followed at different levels of handling the e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government. There are no appropriate measures for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is the control of the unorganized sector which manages more than 90% of India's E-waste through irrational processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

Mr. Singh conveyed how e-Waste can be better managed and channelized by creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has thus become e-Waste Develop environmentally safe and sound recycling practices. Making producers responsible to setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. He convinced the gathering on reducing hazardous substances in electrical and electronic components.

The presentation helped the assembly in conveying the different aspects of e-Waste and how to deal with them at their respective levels was articulated. The attendees understood that the onus lies on each and every stakeholder, else we lose the battle.



MIME ACT



A commendable effort for raising the awareness among peers about the ongoing issues related to the environment was made by group of diligent students in the form of an informative act. The students made an explicit impact on the gathering regarding the nonchalant attitude prevalent among most of the people regarding environmental concerns. They made a point to take on the responsibility of keeping the surroundings safe and clean on each and every one of individual and not just on some organisation, government or such body.

EXTEMPORE ON E-WASTE



The students spoke with alacrity about e-Waste and its management in the extempore activity conducted at the very end. Students shared how just with the blink of an eye the rapid technological developments are rendering most of the electronic items obsolete and consequently adding on to the e-Waste burden. The students listed the challenges to be multi fold, such as environment and health related, lack of awareness amongst various stakeholders including public at large, investment required for setting up of state of the art waste management facilities, monitoring and reporting of the e-waste generated and most importantly reconciling technological development with sustainable development. The students acknowledged that to tackle the problem of e-waste measures like sensitization of various

stakeholders followed by putting in place the system to manage environmentally sound disposal of e-waste should be taken.

Distribution of e-Waste Charter to Schools:

e- Waste charter along with certificates was presented to the schools by Mr. Rohit Kumar Singh of CEAMA.

Charter Felicitation



Snapshots:



Dealers 10

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative”

Ranchi

15th July 2017 Ranchi

Consumer Electronics and Appliances Manufacturers Association (CEAMA), established in the year 1978 an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT had organized an awareness programme on Environmental Hazards of Electronic Waste under the aegis of ‘Digital India Initiative’ for dealers in the city of Ranchi

Agenda :

Awareness Program on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative on 15th July, 2017, Ranchi

PROGRAMME

Sr.No	Session timing	Session topic
	1900 – 1930	Registration and distribution of posters Inaugural session
	1930 – 1935	Welcome address by Mr. Rohit Singh, Manager, Corporate Affairs, Planning & Strategy,
	1930 – 1935	CEAMA Special address by Mr.Prodip Mukhopadyay, General Manager Webel
	1935 – 2100	Special address by Dr. Ramesh, Sr. Environment Engineer, Department of Science, Technology and Environment, Pudducherry
	2100 onwards	Dinner

The awareness event is part of the sensitisation program to impart basic knowledge to the dealers associated with electrical and electronics instruments about e-waste, ever increasing ecological and environmental concerns as a result of wrong methods of disposal mechanisms being practiced for such waste. The programme elucidated on the discrete steps of recycling and correct disposal of e-waste at different levels and the broad responsibilities of associated dealers.

Presentation by CEAMA:



Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning Strategy, CEAMA delivered a presentation on e-waste and its management for dealers. He explained the objectives of the programme and articulated on the same for the extensive and in-depth understanding of what constitutes e-Waste, escalating risk factors associated with e-Waste in India, the significant laws governing e-Waste and to discuss and come to a conclusion on the responsibility of dealers on promoting correct e-Waste management.

Mr Singh informed that e-Waste consists of the wastes generated from electronic and electrical appliances of our daily use like computers, mobile phones air conditioners and many such things. He emphasized on how rejected parts of electronic goods also constitute a substantial part of e-Waste and not only the end product we get after an appliance exhausts its life period.

He presented an elaborate insights to the dealers with some pictures of how the discarded e-Waste reach the landfills and pose grave consequences to the human health and the overall detrimental ecological impact it threatens the environment. The data with the global e-waste production is put at a staggering 16MT to which India's contribution is about 1.7MT making it the 5th highest producer of e-Waste. Mr Singh shared how appliances and gadgets at the household and the IT industry level constitute the largest chunk of e-Waste in India.

He also explained the risk factors associated with the e-Waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health if not handled in a directed process.

Lead, mercury and cadmium can cause irreversible damage to the central and peripheral nervous systems, effect brain development of children and cause damage

to the circulatory system, kidneys and the reproductive system. Chromium has the potential to easily pass through cell membranes and is then absorbed, leading to various toxic effects. Some studies have shown that short-term exposure to beryllium, barium, and BFRs can cause serious health implications such as cancer.

Mr Singh threw light on the current practices being followed at different levels of handling the e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government. He explained how there are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is the hegemony of the informal sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

An in depth study of informal practices being followed at the grassroots level was presented with the aid of pictures of unscientific and unsafe practices being followed by the unorganized sector. Lack of knowledge among population most particularly women and children is a serious concern. The open dumping of e-Waste leading to the percolation of toxic waste into the soil and as a result entering the food chain is a lethal cause of concern and serious actions have to be taken as soon as possible.

E-Waste (Management and Handling) Rules, 2016 notified in March 23, 2016 became effective from October 1, 2016 mandates the responsibility of dealers for handling of e-Waste

Emphasis was laid on creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has become e-Waste, developing environmentally safe and sound recycling practices, making producers responsible for setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Giving responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. Reducing hazardous substances in electrical and electronic components

A detailed analysis and breakdown of the e-Waste at different level made the attendees more practically aware about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding. Average life span of different electrical and electronic

instruments was provided to the participants. The responsibility of dealers at various levels was explained in detail to provide them with the insights of step-by step handling of the e-Waste.

Consumers or bulk consumers shall ensure that e-waste generated by them is channelized through collection centre or dealer of authorized producer or dismantler or recycler or through the designated take back service provider of the producer to authorized dismantler or recycler. Bulk consumers shall maintain record of e-waste generated by them in Form-2 and make such records available for scrutiny by the concerned State Pollution Control Board. Consumers or bulk consumers shall ensure that such end-of-life electrical and electronic equipment are not mixed with e-waste containing radioactive material as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and rules made there under. Bulk consumers shall file annual returns in Form-3, to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates. In case of the bulk consumer with multiple offices in a State, one annual return combining information from all the offices shall be filed to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

Producers must collect and channelize e-waste generated from 'end-of-life' products to authorized recyclers. They may use numerous methods/schemes to channelize e-Waste and such scheme should be described in the authorization document. These could be incentivizing return of e-waste by consumers/bulk consumers whether through dealers or buy-back arrangements or take-back systems or exchange scheme for channelization of e-waste, managing the process individually or collectively through a Producer Responsibility Organization, where a set of producers set up a common/shared collection and channelization mechanism. Supervising collection through a 'Deposit Refund Scheme' (DRS) or exchange scheme for collection and channelization of e-waste, Producer must provide contact details such as address, e-mail address, toll-free telephone numbers or helpline numbers to consumers or bulk consumers through their website and product user documentation so as to facilitate return of end-of-life electrical and electronic equipment;

Producers must create awareness through media, publications, advertisements, posters, or by any other means of communication.

In the final note Mr. Singh lucidly explained how a shift from unorganized and informal e-waste management to an effective and comprehensive treatment of the waste has to be done by shifting from manual to automated processing

for the least errors, from unsafe to safe practices and most importantly from dumping to recycling. Points were shared with the participants on how at their level e-Waste can be managed in a systemic procedure.

Commemorative picture of the gathering



Media Interaction:



Schools

10.1

Awareness Programme on Environmental Hazards of Electronic Waste Under “Digital India Initiative”

Ranchi

15th July 2017 Ranchi



Consumer Electronics and Appliances Manufacturers Association (CEAMA), established in the year 1978 is an all India body representing Consumer Electronics, Home Appliances and Mobile Industry in association with Ministry of Electronics and Information Technology (MeitY), National Association of Software and Services Companies (NASSCOM) Foundation and MAIT had organized an awareness programme on Environmental Hazards of Electronic Waste under the aegis of ‘Digital India Initiative’ for schools in the city of Ranchi.

The awareness event is part of the sensitisation program to educate the teachers, students and parents about e-waste, escalating environmental issues consequential to the improper disposal of such waste. The programme threw light on the discrete steps of recycling and correct disposal of e-waste at different levels.

The programme was held at St. Anne School which was attended by a gathering of around 700 including teachers and students from 4 different schools of Ranchi

St Anne high School
BalikaUchyaVidyalaya

St Anne intermediate college

St Anne Girl Sr. Secondary School

Agenda :

Awareness Program on Environmental Hazards of Electronic Waste” under the ‘Digital India Initiative on 15th July, 2017, Ranchi

PROGRAMME

Sr.No	Session timing	Session topic
	9.00 AM – 9.30	Registration and distribution of posters Inaugural session
	9.30 AM – 9.35 AM	Welcome address by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy, CEAMA
	9.35 AM – 10.00 AM	Address by Recycling Partner Mr. Behram Toddywala, Assistant Manager, Re-Teck
	10.00 AM – 11.00 AM	Session An Introduction to E waste and its Management, Presentation by Mr. Rohit Singh , Manager , Corporate Affairs, Planning & Strategy, CEAMA
	11.00 AM – 11.15 AM	Activity: Greene Talk Mime Act
	11.15 AM – 11.30 AM	Certificate and Charter Distribution

Mr Rohit Kumar Singh, Manager, Corporate Affairs, Planning & Strategy, CEAMA delivered a presentation on e-waste and its management. He explained the purpose of the programme and elaborated on the same for the comprehensive understanding of what constitutes e-Waste, escalating risk factors that e-Waste poses on India, the relevant laws governing e-Waste and to discuss and come to a conclusion on the responsibility of schools on promoting correct e-Waste management.

Furthering the event Mr Singh explained e-Waste consists of the wastes generated from electronic and electrical appliances of our daily use like computers, mobile phones air conditioners and many such things. He highlighted how rejected parts of electronic goods also constitute a huge portion of e-Waste and not only the end product we get after an appliance exhausts its life period.

He presented the students with some pictures of how the discarded e-Waste reach the landfills and pose serious consequences to the human health and the overall detrimental ecological impact it threatens the environment. The data with the global e-waste production is put at a staggering 16MT to which India's contribution is about 1.7MT making it the 5th highest producer of e-Waste.

Growing electronic item consumption trend in the form of gadgets, appliances was found as the leading cause of the growing e-Waste. He explained the risk factors associated

with the e-waste by breaking down the different elements that are found in such waste which includes Lead, Cadmium, Mercury, chromium, halogenated substances, polychlorinated biphenyls and poly-brominated di-phenyl ethers and the respective effects they pose on different fronts of environment and human health.

Mr Singh threw light on the current practices being followed at different levels of handling the e-Waste. E-waste management in India is highly complicated due to the presence of multiple stakeholders, some of whom are not within the purview of the law. Stakeholders include individual and bulk consumers, manufacturers and producers of EEE, formal and informal recyclers, NGOs and the government. There are no appropriate regulations for the public / individual consumers to be bound and responsible for their E-wastes. A major issue is the dominance of the unorganized sector which manages more than 90 percent of India's E-waste through unscientific processes for dismantling, recycling and disposal. Further he explained how informal handling of the e-Waste is causing serious damage to the environment.

Mr Singh conveyed how e-Waste can be better managed and channelized by creating an e-waste collection and channelization system by assigning responsibilities to all stakeholders for products that have reached end-of-life and has thus become e-Waste Develop environmentally safe and sound recycling practices. Making producers responsible

to setting up a system of e-waste collection/take-back for their own brands, channelizing the collections to registered recyclers. Responsibilities to urban local bodies for orphan products and for waste found mixed with Municipal Solid Waste. He convinced the gathering on reducing hazardous substances in electrical and electronic components.

A detailed analysis and breakdown of the e-Waste at different level made the attendees more practically aware about the sources of the e-Waste and took their knowledge of better management to a higher level of understanding.



Presentation by Retek:



Mr Behram Toddy, Assistant Manager, Re-Teck enlightened the gathering with his inputs by presenting a broad picture of the present situation of the e-Waste in India and how recycling can play a major role in initiating for the better management of e-waste. He emphasized on the point of upgrading the existing technological solutions presiding in India for the management of e-Waste.

He threw light on cases where improper management of e-waste had led to toxins in breast milk in samples collected from different locations. He explained how Re-Teck is making an impact globally by providing solutions to its myriad clientele. He explained how clean disposal of can help at various levels.

Skit Presentation:



An interesting rendition of consequential impact of human activity and rapid industrialisation on the environment was performed and narrated by group of 6 students in the form of a skit. The motto was to save environment which is the true pride of a nation. A pledge to protect the environment was taken at the end.

Speech on e-Waste:



An educative speech was given by a student on e-Waste wherein she explained about the sources of such waste, the elements found in e-waste. She lucidly explained the long term impact on human health in cases of exposure to the waste such as the detrimental effect on nervous system. She also elucidated on the serious need of channelizing of e-waste for the betterment of environment the society that lives in and the generations that will follow.

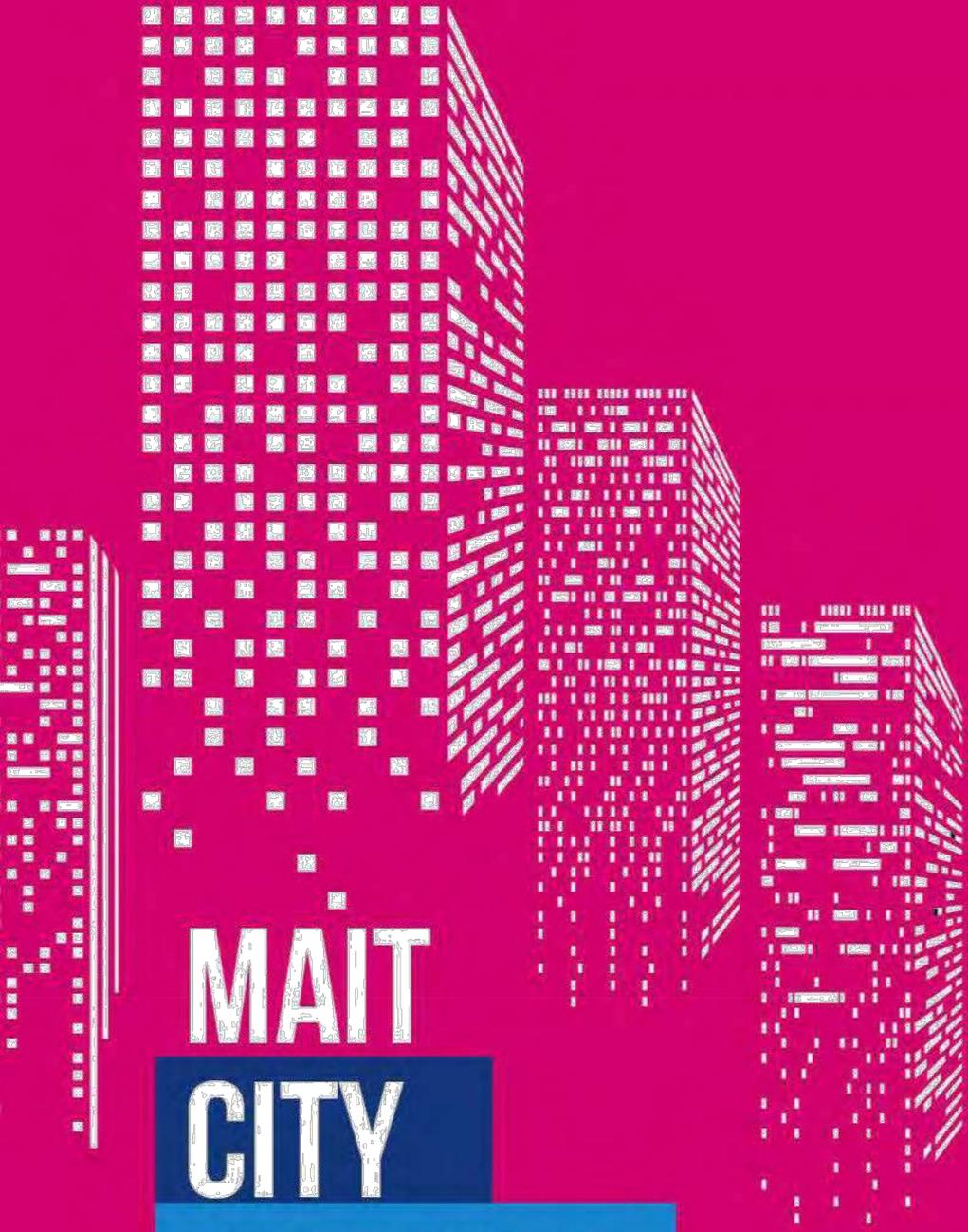


Prize distribution to students:



Snapshot





MAIT

CITY

REPORTS

01

Bhubaneswar

24 / 05 / 2017

Month

May

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste in Bhubaneswar on 24th May 2017 for State's informal sector.

The Workshop was held at Utkal Chamber of Commerce, wherein Dr B K Behera, Sr. Environment Scientist, Odisha State Pollution Control Board and Shri Dipak S Rathour Vice President-Commerce, Utkal Chamber of Commerce shared their perspective on e-Waste Rules. Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. Shri Rajen Padhi, Director General, Utkal Chamber of Commerce & Industry delivered the vote of thanks. The dealers of electronic products and electronic garbage collectors from the informal sector attended the session. CCWD a Bhubaneswar based NGO

The main aim of the Workshop was to raise awareness across various levels of society to reduce the adverse impact of e-Waste on environment and health arising out of the polluting technologies used in recycling in the unorganized sector. Furthermore, the lack of recycling infrastructure in Odisha complicates the situation and most of the e-Waste is passed on to states like Delhi, Uttar Pradesh and Haryana. E-waste in Odisha is projected to reach to 2050.71MT by 2021 and there is imminent need to properly manage e-Waste in the State. The key aspects of e-Waste management and the E-waste Management Rules 2016 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

Workshop for awareness on the hazards of e-waste

Target Audience

Informal Sector

Venue

Utkal Chamber of Commerce,
Bhubaneswar

The Speakers at the Workshop expressed in detail to the Infor-mal Sector on the:



Responsibilities of various stakeholders within the rule. Responsibilities of producers of e-waste

The role which the informal sector can play within the rules

What are the environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

What are the overall health and environmental hazards of improper recycling of e-waste

How can they become a formal collection partner within the ambit of the rules

What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorised recycler.

What are the state-of-the-art dismantling and recycling techniques in the country and around the world.



Objectives

At the end of the workshop, participants will be able to:

- Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
- Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
- Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment
- Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
1630 – 1700 hrs	Registration	Registration, HI Tea & Snacks
1700 - 1715 hrs.	<ul style="list-style-type: none"> • Inauguration 	
1715 -1730 hrs.	<ul style="list-style-type: none"> • Introduction of participants (20 seconds for each participant) • Introduction of the project (5 minutes by the person who is conducting the workshop) • Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	<p>Participants get to know each other and the topics which will be covered in the sessions during the entire day. Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same</p> <p>Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated</p>

1730 – 1800 hrs	<ul style="list-style-type: none"> • Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) • Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose off e-waste in the formal chain) • The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	<ul style="list-style-type: none"> • Participants will get to understand the need for formalising so that their livelihoods are secured in the future.) • Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1800 – 1815 hrs.	<ul style="list-style-type: none"> • TEA BREAK 	
1815 – 1845 hrs.	<ul style="list-style-type: none"> • What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components of e-waste) • What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	<ul style="list-style-type: none"> • Participants will get to know the environmental and health hazards of improper recycling of e-waste
1845 – 1915 hrs.	<ul style="list-style-type: none"> • How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) • What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorised recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognised) 	<p>Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.</p>
1915 – 1945 hrs.	<ul style="list-style-type: none"> • What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done) 	<ul style="list-style-type: none"> • Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1945 – 2015 hrs.	<ul style="list-style-type: none"> • Case studies on formalisation of informal sector actors in the country (30 minutes, talking and presenting different case studies of how informal sector actors have formalised and are reaping the benefits of formalisation) 	<ul style="list-style-type: none"> • Participants will get real life examples of informal sector actors who have formalised and are working within the rules
2015 – 2045 hrs.	<ul style="list-style-type: none"> • QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	
2045 hrs. onwards	<ul style="list-style-type: none"> • Dinner 	

Invited	200
Attended	59

Detailed list of Attendees

S.No	Name	Organisation	City	Mob	Email
1	Mr Ashok Kumar Gochhi	CCWD	Bhubaneswar	9937956271	ashokccwd@gmail.com
2	Mr Santosh Jena		Bhubaneswar	7381434330	
3	Mr Sanjeev Mehta		Bhubaneswar	9873121441	sanjeev@racsc.com
4	Musibor		Bhubaneswar	7381899920	
5	Mo. Mausumi		Bhubaneswar		
6	Abusaleh		Bhubaneswar		
7	S K Mafjam		Bhubaneswar		
8	Abdul Razzak		Bhubaneswar		
9	Alia Bibi		Bhubaneswar		
10	Masuma Bibi		Bhubaneswar		
11	Hasina Bibi		Bhubaneswar		
12	Sagia Bibi		Bhubaneswar		
13	Salena Begum		Bhubaneswar		
14	Alena Bibi		Bhubaneswar		
15	Skaliazam		Bhubaneswar		
16	Namaji Khan		Bhubaneswar		
17	S K Abdulla		Bhubaneswar		

18	Rahima Bibi		Bhubaneswar		
19	Hafeja Bibi		Bhubaneswar		
20	Sheikh Mansoor		Bhubaneswar	7735815466	
21	Debabrat Mahanta	CCWD	Bhubaneswar	7813797628	debabratmahanta@gmail.com
22	Narasingha Panigrahi	SDRC	Bhubaneswar	9124777722	narasingha@sdrc.co.in
23	Saswat Swain	OCAC	Bhubaneswar	9437683088	saswat.swain@ocac.in
24	Bharati Senधि	OCAC	Bhubaneswar	9338060427	bharati.senधि@ocac.in
25	Damayanti Sahu	CCWD	Bhubaneswar	8018914322	damayanti_23sept@gmail.com
26	Manas Pradhari		Bhubaneswar		
27	Renubala Sahoo		Bhubaneswar		
28	Sohabani Begam		Bhubaneswar		
29	S.K.Asaouddin		Bhubaneswar		
30	S.K.Rabibul		Bhubaneswar		
31	Alia		Bhubaneswar		
32	Dilshad		Bhubaneswar		
33	Abdul Jasalah		Bhubaneswar		
34	Sheikh Mohidul		Bhubaneswar	8093693669	
35	Shahjahan		Bhubaneswar		

38	Prasun Kumar Nayak		Bhubaneswar		
39	Deepak Kumar Saha		Bhubaneswar	7873757044	
40	Jiemma Sheik		Bhubaneswar		
41	Shabibi		Bhubaneswar		
42	Kamarakhatul		Bhubaneswar		
43	Asiya Bibi		Bhubaneswar		
44	Mohada Bibi		Bhubaneswar		
45	Masuma Bibi		Bhubaneswar		
46	Sabeela Tam Bibi		Bhubaneswar		
47	Fuljan Bibi		Bhubaneswar		
48	Farida Bibi		Bhubaneswar		
49	Rohila Bibi		Bhubaneswar		
50	Minra Bibi		Bhubaneswar		
51	Rehana Bibi		Bhubaneswar		
52	Mahanta Bibi		Bhubaneswar		
53	Santuna Begam		Bhubaneswar		
54	Sabina Bibi		Bhubaneswar		
55	Momataj Bibi		Bhubaneswar		
			Bhubaneswar		

1.1

Bhubaneswar

24 / 05 / 2017

Month

May

Event Report

Workshop for awareness on the hazards of e-waste

Target Audience

Manufacturers

Venue

Utkal Chamber of Commerce,
Bhubaneswar



MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized a Workshop on Environmental Hazards of E-Waste in Bhubaneswar on 24th May 2017 for State's electronic manufacturers.

The Workshop was held at Utkal Chamber of Commerce and inaugurated by Shri Ananta Narayan Jena, Hon'ble Mayor of Bhubaneswar. Shri Soubhagya Routray, President, ITAO delivered the Welcome Address and Shri Ramesh Mahapatra, President, Utkal Chamber of Commerce shared his perspective with the audience. Dr D K Behera, Sr. Environment Scientist, Odisha State Pollution Control Board shed light on e-Waste Rules, etc., and Shri Gautam Mehra, Consultant, MAIT conducted a Training Session on the occasion. Shri Rajen Padhi, Director General, Utkal Chamber of Commerce & Industry delivered the vote of thanks at the Workshop. The manufacturers of electrical and electronic products also attended the session.

The lack of recycling infrastructure complicates the situation and most of the e-waste is passed on to states like Delhi, Uttar Pradesh and Haryana. E-waste in Odisha is projected to reach 2050.71MT by 2021 and there is imminent need to properly manage e-Waste in the State. The key aspects of e-Waste management and the E-waste Management Rules 2016 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

Objectives

At the end of the workshop, participants will be able to:

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts

Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities

Assist in implementation of the EPR plans for their respective organisations

Assist in training of staff working at shop floor different topics covered in the workshop

Session timing	Session topic	Objective of coverage of topic
0915 – 0945 hrs.	Registration	Registration, HI Tea & Snacks
0945 – 1000 hrs.	<ul style="list-style-type: none"> Inauguration 	
1000 – 1015 hrs.	<ul style="list-style-type: none"> Introduction of participants (20 seconds for each participant) Introduction of the project (5 minutes by the person who is conducting the workshop) Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	<ul style="list-style-type: none"> Participants get to know each other and the topics which will be covered in the sessions during the entire day. Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
1015 - 1045 hrs.	<ul style="list-style-type: none"> What is e-waste? (5 minutes, which will cover the definition within the rules and the introduction of schedule I within the rules) Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) Responsibility of the manufacturers within the ambit of the rules (10 minutes, Introduction to the guidelines laid in the rules, Responsibility of manufacturers as stated in the guidelines to the rules) Introduction to Extended Producer Responsibility within the ambit of the rules (10 minutes, explaining how the EPR can be implemented, what are the avenues which are defined within the rules, what is the time period for implementation of EPR) 	<ul style="list-style-type: none"> Participants will get to understand the requirement which manufacturers have to fulfil within the rules and the guidelines which have been stated for implementation. Understanding EPR in the Indian context and its implementation mechanism)
1045 – 1100 hrs.	<ul style="list-style-type: none"> Tea Break 	
1100 – 1130 hrs.	<ul style="list-style-type: none"> How can you prepare an EPR plan for your organisation? (15 minutes, methodologies as allowed within the guidelines to the rules) How can you finance EPR in the Indian context? (30 minutes, EPR financing models available, EPR financing in the global context, Case studies) 	<ul style="list-style-type: none"> Participants get to understand in detail how EPR can be implemented and financed within the ambit of the guidelines to the e-waste rules
1130 – 1200 hrs.	<ul style="list-style-type: none"> How can you set up a PRO for collecting e-waste and implement the rules? (10 minutes, detailing the process of setting up a PRO, the managing of a PRO and collection channels) How can you set up a collection center for e-waste? (5 minutes, process of setting up a collection center for e-waste) How can you work with the informal sector for e-waste collection? (15 minutes, examples and case studies of documented model of formal and informal partnerships on e-waste collection within India and select countries) 	<ul style="list-style-type: none"> Participants get to understand in detail how collection channels can be set up for e-waste collection and targets can be met while working with different stakeholders
1200 – 1230 hrs.	<ul style="list-style-type: none"> What are the labelling mechanisms for electronics? (10 minutes, bar coding for electronics, data matrix code, BIS code) Introduction to eco labelling for electronics (5 minutes, 2 case studies from Europe) Sustainable Consumption and Production (15 minutes, Introduction to circular economy, resource consumption, use of secondary resources) 	<ul style="list-style-type: none"> Participants get to know about labelling mechanism and use of resources in a sustainable manner

- 1230 – 1300 hrs.**
- Health and environment hazards of improper handling of e-waste (15 minutes, composition of e-waste, hazardous elements, environmental and health hazards of materials)
 - RoHS compliance (5 minutes, hazardous elements, RoHS guidelines within the rules, compliance mechanism)
 - Managing health and safety standards at workplace (10 minutes, health and safety standards which need to be maintained at workplace, personal protective equipment and its uses)
 - Participants get to know about labelling mechanism and use of resources in a sustainable manner

- 1300 – 1330 hrs.**
- Building blocks to an internal policy on e-waste (10 minutes, key tenets to an internal policy on e-waste, messaging to employees and workers at shop floor, managing equipment and guidelines)
 - Creating awareness on e-waste (10 minutes, showcasing awareness material as prepared in the project, films and radio jingles, responsibility as stated within the rules)
 - Participants get to know how to build an internal policy on e-waste management within the office and the organisation at large and also how to create awareness with different sets of stakeholders

1330 – 1400 hrs • QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS

1400 hrs. onwards • LUNCH

Invited	550
Attended	42
Manufacturers/ Producers	25

**Detailed list
of Attendees**

S.N o.	Name	Designation	Organisation	City	Mob.	Email
1	Mr Debajyoti Paul		Tata Steel Alloys Ltd	Bhubaneswar	9238407238	debajyoti.paul@tatasteel.com
2	Mrs. Sanita P Jena		Utkal Chamber of Commerce	Bhubaneswar	9692885572	sanita.jena05@gmail.com
3	Mrs P Zeshan Das		Utkal Chamber of Commerce	Bhubaneswar	9840776540	ultra.zeshan@gmail.com
4	Mr. Sanjivan Sarangi		Nesscom Foundation	New Delhi	9160001072	sanjivan.sarangi@gmail.com
5	Mr. Sadya Swain		CIWD	Bhubaneswar	9668741919	sadyaswain@rediffmail.com
6	Mr Rajen Padhi	DG	Utkal Chamber of Commerce	Bhubaneswar	9437021134	
7	Mr Stekanta Saha		Odisha State Pollution Control Board	Bhubaneswar	9438853963	
8	Mr Gautam Mehra	Consultant	MAIT	New Delhi	9811010419	gautam.mehra@maitech.com
9	Mr J P Mishra	Manager	Green India	Bhubaneswar	8895125034	mishrajp008004@rediffmail.com
10	Mr Bhagabati Prasad Das	President	Acharya Vihar Parishad	Bhubaneswar	7205940587	bp.das10@gmail.com

11	Shri Ananta Mishra	Mayor	Bhubaneswar Municipal Corporation	Bhubaneswar	9437994700	
11	Mr S N Padanab	Partner	Byte Infocys	Bhubaneswar	9437047222	snp_byte@rediffmail.com
11	Mr Brahma Prakash Mishra	CEO	Targous Technology	Bhubaneswar	9437100726	brahma@targous.com
14	Mr Manoj Mohapatra	Proprietor	Expro Computers	Bhubaneswar	9118105325	manoj_expro.com
15	Mr A K Mohapatra	Managing Director	Amrapalli Lifestyle	Bhubaneswar	9437022690	amrapalli@amrapalli.com
16	Mr D B Sahoo	CEO	Medionix Service	Bhubaneswar	9040050000	debdharam@medionix.com
17	Mr A K Das	CEO	Compaprofessional	Bhubaneswar	9437033318	ankdas@compapro.com
18	Mr Subhagya Routroy	Managing Director	Sudeshia Technology	Bhubaneswar	9777382840	subhagya_22@rediffmail.com
19	Mr Sanjay Rathore	Manager	Ingram Micro	Bhubaneswar	9776577652	sanjay.rathore@ingrammicro.com

Media Coverage

- Financial Express- E-waste in Odisha to touch 2050 mt by 2021: MAIT
- Business standard- E-waste in Odisha to touch 2050 mt by 2021: MAIT
- India Today- E-waste in Odisha to touch 2050 mt by 2021: MAIT
- Money Control- E-waste in Odisha to touch 2050 mt by 2021: MAIT
- Outlook- E-waste in Odisha to touch 2050 mt by 2021: MAIT
- Shafaqna- E-waste in Odisha to touch 2050 mt by 2021: MAIT

Background Work Details

S. No.	Contact Person	Designation	Name of Organisation	Met on (Date)	Contact No.	e-Mail
1	Mr DK Benera	Secy	Environmental Crisis State Pollution Control Board	9 May	9472919361	
2	Mr Manoj Modi	CEO	Karma Strategies	9 May	9437032211	manoj_modi@karma.com
3	Mr Subhagya Routroy	President	TAO	9 May	9777382840	subhagya_22@rediffmail.com
4	Mr Shantanu Mishra	Deputy Commisr	Municipal Corporation Bhubaneswar	9 May	9437040405	shantanu@bmc.com
5	Mr Manikanta Naik	Chief Resident	E-Tara Steel	9 May	9742303225	manikanta.naik@e-tara.com
6	Mr Ramesh Mohapatra	President	UCCI	9 May		
7	Mr Debashish Sathapatny	Deputy Director	STPI	9 May	8861009050	debashish@stpi.com
8	Ms. Anuradha Biswal	Director	Skasha Consultancy	9 May	9437001875	anuradha@skasha.com
9	Mr Ashirbad Nayak		Municipal Corporation Bhubaneswar	9 May	9853048844	
10	Mr AN Jana	Mayor	BMC	22 May	9437494700	anjan@bmc.com
11	Mr Rajen Pachi	DDC	UCCI	22 May	8003021347	rajend@uccl.com

Challenges

- Unavailability of Manufacturers
- Lack of Awareness among people
- Less interest of State Govt. Departments due to their existing work.

Challenges

Govt. has its own programs on e-Waste in the state and doing the programs in collaboration with them can attract more and more people for its success.

1.2

Bhubaneswar

20 / 07 / 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Bhubaneswar on 20th July 2017 for State's informal sector.

The Workshop was held at Confederation hall-The Odisha Association for the Blind, Satya Nagar, Bhubaneswar. Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The electronic garbage collectors from the informal sector attended the session. .



Workshop preparations.

The main aim of the Workshop was to raise awareness across various levels of society to reduce the adverse impact of e-Waste on environment and health arising out of the polluting methods used in recycling in the unorganized sector.

The key aspects of e-Waste management and the E-waste Management Rules 2016 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

Awareness workshop on Environmental Hazards of Electronic Waste

Target Audience

Informal Sector

Venue

Confederation Hall, The Odisha Association for the Blind, Satya Nagar, Bhubaneswar.

Trainer expressed following points to the informal sector on E-Waste:

Responsibilities of different stakeholders within the rules who are disposers of e-waste

What are the steps which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler?

The role which the informal sector can play within the rules

What are the environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

How can they become a formal collection partner within the ambit of the rules?

What are the state-of-the-art dismantling and recycling techniques in the country and around the world?

What are the overall health and environmental hazards of improper recycling of e-waste?

Importance of proper recycling of e-waste

Impact of disposing e-waste in soil & water

Objectives

At the end of the workshop, participants will be able to:

Demonstrate knowledge and understanding on E-waste management and its social and environmental impacts
 Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment.

Session timing	Session topic	Objective of coverage of topic
1430 – 1450 hrs.	Registration, HI Tea & Snacks	Registration, HI Tea & Snacks
1450 -1530 hrs.	<ul style="list-style-type: none"> • Introduction of participants (20 seconds for each participant) • Introduction of the project (5 minutes by the person who is conducting the workshop) • Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) • Introduction to e-waste rules (10 minutes, 2011 rules and the revised 2016 rules) 	Participants will get to understand the need for formalizing so that their livelihoods are secured in the future.)
1530 – 1620 hrs.	<ul style="list-style-type: none"> • What are the state of the art dismantling and recycling techniques in the country and around the world? • Responsibilities of different stakeholders within the rules who are disposers of e-waste (25 minutes, explaining how different disposers have been mandated to dispose off e-waste in the formal chain) 	Participants get to know the e-waste rules and responsibility of every stakeholder.
1620 – 1635 hrs.	<ul style="list-style-type: none"> • What are the overall health and environmental hazards of improper recycling of e-waste • How can you become a formal collection partner within the ambit of the rules 	Participants will get to know the environmental and health hazards of improper recycling of e-waste
1635 – 1645 hrs.	<ul style="list-style-type: none"> • What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) 	Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection
1645 – 1700 hrs.	<ul style="list-style-type: none"> • Case studies on formalisation of informal sector actors in the country (15 minutes, talking and presenting different case studies of how informal sector actors have formalised and are reaping the benefits if formalisation) 	Participants will get real life examples of informal sector actors who have formalized and are working within the rules Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1700 – 1715 hrs..	<ul style="list-style-type: none"> • QUESTION/ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	
1715 hrs. onwards	<ul style="list-style-type: none"> • FOOD DISTRIBUTION 	

Background Work Details

Went to the places where Informal Sector was located and made the people aware about the program and why it is important to attend

Event Attendees

Scrap Dealers.
Electronic Mechanics
Electronic Repair Workers
Recyclers

Challenges

Several challenges were faced during the program. Some of the challenges are listed below:

01 The representative of NGOs refused to provide support which created problems in mobilization.

Due to improper climatic conditions and heavy rains people didn't turn up to the event location.

Management of the event became difficult due to continuous rainfall.

Outcome

About 50% of people turned to attend the event even after heavy rainfall during the event timings. The people could understand the harmful effects of improper management of e-waste. They showed up interest and asked for questions related to the points discussed.

Learnings

Events should be conducted at the places where these people are located.



Support

NGOs and volunteers that are specially working in fields related to waste management should be asked to provide the support during events.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop.





Invited

200

Attended

98



Detailed list of Attendees

S.n o	Name	Contact	S.no	Name	Contact
1	Ibrahim	8984688631	26	Sk Nabidul	8984459638
2	Jahid	8984688631	27	Sannu Charanpal	
3	Sohib	8984688631	28	Sumiya	
4	Debashul Mehat	7873797625	29	N Mushingapatra	
5	S K Sahipudin	8093923339	30	Mohan Roy	
6	Manuarwr B	8093923339	31	Pmadapoh	mohanty
7	Sesonu	9237272850	32	Sanatana Rout	
8	S Amimushan	9437278539	33	Santamshan	
9	Sher Hapishudin	7205180733	34	Gouma Pradhan	
10	Samin Khan	9853510595	35	Ramasanta Panta	
11	Lilo Khan	9861225039	36	Naga Prdahan	
12	Imran	9853841964	37	Anjuna Pradhan	
13	Sher Mushad	8984704470	38	Mayadhara Patra	
14	Habtab	8598950082	39	Changala Tamei	
15	Sher Mshtab	7205409575	40	Rajkeshara Mahapatra	
16	Raju	7205639974	41	S K Islam	
17	Salim	8093289707	42	Sher Sanhore	7377752619
18	S K Momhesan	9853809659	43	S K Abumusa	9040239747
19	Rhul Ahmed	7064778042	44	Asha Udin	8093676387
20	S K Hasan	7205970384	45	Hasibul	
21	Raju	7064098860	46	S K Islabin	
22	Sher Haidhal	7205049302	47	Sk Ahmed	
23	Sk Sannan	9583872882	48	Bado	
24	Nasaidul	9776662057	49	Saqir	
25	Fahamjana	9732720575	50	Sk Aladin	904023533

51	Soumya Randan		76	Kobul	
52	S Nal Momad		77	S K Safibul	9040235332
53	Sk Husen		78	Pmunachandmasapo o.	9937325698
54	Ss Sahalam		79	Deba Red	904088972
55	R J Kumara		80	Paresuman Sahoo	
56	S K Rout		81	Rabindra Sahoo	
57	Prakash Jera		82	Sk Salim	
58	Ranjan		83	Mustam Ali	
59	Sk Samip		84	Sk Anjan	
60	Sk Arbind		85	Sadma Bibi	
61	Sk Ojha		86	Ravan Bhatan	
62	Mona		87	Jyoti Sanbare Sahoo	9861215358
63	S K Bindas		88	Habim Khan	
64	Yarian Khan		89	Sher Ali	
65	Sk Sameip		90	Babu Khan	
66	Sk Adurea		91	Hasim Khan	
67	Imran Khan		92	Rajkeshore Behera	
68	Kiran Khan		93	Chandrama	
69	Subhashish Rout		94	Bana	
70	Jyoti Praksh		95	N Bareie	
71	Sk Mudibur		96	Ama	
72	Debamata Mohapatra		97	A Kalim	

1.3

Bhubaneswar

11/ 08/ 2017

Month

August

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Indore on 11th August 2017 for State's informal sector.

The Workshop was held at Govt. High School, Unit 3, Kharvel Nagar, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The informal sector was invited in the event. Participants also included garbage collectors & e-waste collectors.



Workshop in progress.

Trainer expressed following points on E-Waste:



Awareness workshop on Environmental Hazards of Electronic Waste

Target Audience

Informal Sector

Venue

Text Book Colony Govt. High School,
Unit 3, Kharvel Nagar,



To create an E-waste collection channelization system.

Reduce Hazardous substances in Electrical and Electronic components.

Responsibilities of different stakeholders within the rules of e-waste

Steps, which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW (Municipal Solid Waste).

Environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

On becoming formal collection partner within the ambit of the rules

The state-of-the-art dismantling and recycling techniques followed globally

Impact on health and environment due to improper disposal/ recycling of e-waste

Objectives

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
 Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
 Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment
 Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked .

Session timing	Session topic	Objective of coverage of topic
1600-1610	<ul style="list-style-type: none"> • Introduction of participants (20 seconds for each participant) • Introduction of the project (5 minutes by the person who is conducting the workshop) • Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	<p>Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same</p>
1610-1645	<ul style="list-style-type: none"> • Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) • Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose of e-waste in the formal chain) • The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	<ul style="list-style-type: none"> • Participants will get to know the environmental and health hazards of improper recycling of e-waste.
1645-1715	<ul style="list-style-type: none"> • What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	<p>Participants will get to understand the need for formalizing so that their livelihoods are secured the future.</p>
1715-1745	<ul style="list-style-type: none"> • How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) • What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorized recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognized) 	<p>Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.</p>

1745 –1815

- What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done)

Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated

1815–1835

- QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS

- FOOD DISTRIBUTION

Background Work Details

Our representative did full efforts to mobilize informal sector from various locations. They faced a lot of problems while finding these clusters

We reached out to various groups of e waste collectors, solid waste collectors. It takes a lot to convince these people to attend such awareness program

Event Attendees

Scrap Dealers.
Electronic Mechanics
Electronic Repair Workers
Recyclers

Challenges

Challenges were faced during the program. Some of the challenges are listed below:

01 We didn't receive any support from SPCB

Limitations

Almost all of these people were daily wage earners so they were reluctant to attend the workshop as it would disturb their daily routine.

What we realised that these people are busy in the rat race of earning their daily bread and seemed not concerned about their health at all.

Outcome

Successful session was held.

People understood the harmful effects of the improper e-waste management.

People from the informal sector showed up interest and asked questions related to the points discussed.

People from the informal sector agreed to adopt different measures and methods on e-waste management and e-waste production.

Support

Need support from local bodies to engage with people of different fields and mobilization.

Permissions to conduct such workshops at public places should be provided.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



100% 49 Comments 10 Views



With an attempt to spread awareness amongst the formal and informal sector, MAAT is organizing a workshop for awareness about hazardous impacts of E-waste. This event is organized in partnership with the Ministry of Electronics & Information Technology.



1:15m - 2 Comments

Like Comment Share



Developing approach of E-Waste awareness program under MAAT is the backbone of



Team MAAT has worked with the technicians of the group of 10 at Government School to spread awareness about hazardous impacts of improper recycling of E-waste.



1:15m

Like Comment Share



With an attempt to spread awareness amongst the formal and informal sector, MAAT is organizing a workshop for awareness about hazardous impacts of E-waste. This event is organized in partnership with the Ministry of Electronics & Information Technology.





Invited 500

Attended 400

Recorded 284

Name	Contact	Name	Contact
Abai	9078675546	Mukesh Fera	7899462632
Yasuf	9937948471	Mukkudin	9058262396
Sola	9658251216	Molaish Khan'	8895993962
Mn Malick	9938939433	Mohan Ramzan	7829326294
Salaytin		Monakhan	
Pnwys	8260626419	Rout Babu	
Mohammad Ali		S K Hussain	
Khar	9090465277	Jitan Kumar Sahu	
Sek Aliye		Praksh Mahanta	
Dipu Marti	95564643434	Simair Bishan	
Adhana Kurdu	7008482661	Ishwar Paridha	
Mahedul Islam	7205180733	Dipti Raman	
Abhi Dubin	7205180733	Deepak	

Raja	9040211954	Ramzan	
Sek Sahasan	9692224930	Sirajuddin	
Ahinsue		Hussain	
Sobin	9090812654	Sek Ahmed	
Tubli Swin		Pardia Babu	
Anan	7203388990	Dharmendar Sahu	
Sobin Ali	9408728401	Sameer Sahu	
Raja		Bikan Mohatra	
Jaidulu		Rehman Ali	
Padip		Kasim Bhai	
Ali	8984205585	Grish Sahu	

Babi Dash	7205988136	Ramzan	9040287266
Alhabin	7008959473	Ak Pudush	90405962
Samir	7008959473	Kalia	8984752114
Ab Sahil	7205569380	Hamid	9692006612
Bhabun		Sanirai	8260392925
Nanjan Mohapata	8984104039	S Kata	9692006612
Sanjaya Dal		Papakatan	9178988078
Sambhu Sahu	8093330141	Rabal	9040287260
Suaseu Bhuria	7077267151	Rakibal	
Husan Malida	9040167802	Soban	
Arman Kumar		Lala Khan	
Sanat Malik		Rome Babu	
Fanuk	8984294839	Salim	
Raja	9040211954	Abdul	
Sek Sahasan	9692224930	Sirajuddin	
Ahinsue		Hussain	
Sobin	9090812654	Sek Ahmed	
Tubli Swin		Pardia Babu	
Anan	7203388990	Dharmendar Sahu	
Sobin Ali	9408728401	Sameer Sahu	
Raja		Bikan Mohatra	
Jaidulu		Rehman Ali	

Padip		Kasim Bhai	
Ali	8984205585	Grish Sahu	
Joki Ashen	9777799898	Jhamidia	
Fahu	9090947147	Chamudia	
Safia Sati	7894724483	Gania	
Sujit Mayfare	8338840740	Gaman	
Vihar	7504635843	Doyanithi	
Nandan	8908236887	Raj	
Abu Salim		Bhabani Prasad	
Sanatam Thatot		Ananda Tripathi	

Biswanath Mahatama		Baba Ali Khan	
Ahmed		Sahil Khan	
Sinta Majumdar		Abu Salim	
Jirish Khan		Rani Chandr	
Salman Khan		Karim Ali	
Nasaruddin Ali		Habib Ansari	
Surai Khan		Farhanand	
Roshan		Rakibua	
Akbar Ali		Sahil Khan	
Kahim		Monit Sari	
Kassam		S K Ahmed	
Jalla		Bikram Sahoo	
Ali Bhai		Abod Khan	
Rehaman Ali		Rashid Mohammad	
Sameer Kumar		Salim Khan	
Bital Kania		Karim Khan	
Pratulla Phusty		Johim Khan	
Sagel Sahoo		Rona Nobil	
Malick Babu		Abdul Rajab	
Sudhir Khan		Nussan Rehaman	
Bibhuti Behena		Nabab Sarif	
Pintu Babu		Babu Rehaman	
Santosh Bhai		Raja Rasol	
Maghob Das		Pullai Rehman	

Bhahumanda Behutia		Tenu Mohammad	
Gajanan Behara		Rahim Khan	
Pharat Biswal		Alla Mohammad	
Dhanahari Samal		Ajarohin Khan	
Prabhulla Bisoi		Rasul Mohammad	
Giridhat Sahoo		Nadupa	
Ashok Rout		Modah Parida	
Manoj Kumar		Gobardahan Jena	
Baidal	8093208576	Anishun Namashin	8093270638
Inius	8984567146	Kanibul	7978663759
Hussan Mohmad	9040184602	Aiha Udin	
Bishwash Sahoo	7809464824	Sagin	8249868643
Ambala	7809464824	Sabin	9040543891
Taslim Khan	9938962784	Abumusa	9040543891
Tamisa Mudala	7809464302	Mohedul	9439203399
Ambala	7069492824	Safi	8093682060
Aswinbal	8909492389	Maonsun	9938251335
Mukesh Khan	7064369824	Assin Rohal	
Amiz	9064292809	Derroressan	
Rehadulla Khan	9658706243	Sudhir Khan	
Rajat	9408726492	Susanta Sahu	
Lakh Moosa	7064392086	Pradeep Sahu	
Rehasala Khan	8908492386	Behotra Sahu	
Rehaman Khan	7809269286	Dash Babu	
Rehanman Abdullah	8895426208	Kuna	
Azarudin	7064282692	Asim Rahul	
S V Madulla	9114460415	Salma Sitotra	
Rona Madokan	7809692481	Kassim Rastori	
Malaya Sahabi	9090315771		
Hasim Ramzan	7064202694		
Matosh Amiz	8908282784		
Hanid	9040538273		

02

Guwahati

17 / 07 / 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Guwahati on 17th July 2017 for State's informal sector.

The Workshop was held at Don Bosco University Guwahati, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The electronic garbage collectors invited to attend the session.



Workshop .

The key points of the e-Waste Management Rules 2017 were highlighted in the Workshop. The Workshop also focused on the responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

Trainer expressed following points to the informal sector on E-Waste:

Awareness workshop on Environmental Hazards of Electronic Waste

Target Audience

Informal Sector

Venue

Don Bosco University, Azara, Guwahati, Assam



Responsibilities of different stakeholders within the rules who are disposers of e-waste

What are the steps which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler?

The role which the informal sector can play within the rules

What are the environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

How can they become a formal collection partner within the ambit of the rules?

What are the state-of-the-art dismantling and recycling techniques in the country and around the world?

What are the overall health and environmental hazards of improper recycling of e-waste?

Importance of proper recycling of e-waste

Impact of disposing e-waste in soil & waster

Objectives

At the end of the workshop, participants will be able to:

- Demonstrate knowledge and understanding on E-waste management and its social and environmental impacts
- Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked
- Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment.

Session timing	Session topic	Objective of coverage of topic
1000 – 1030 hrs.	HI TEA & SNACKS	HI TEA & SNACKS
1030 -1040 hrs.	<ul style="list-style-type: none"> • Registration 	
1040 – 1050 hrs.	<ul style="list-style-type: none"> • Introduction of the project (5 minutes by the person who is conducting the workshop) • Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	Participants will get to understand the need for formalizing so that their livelihoods are secured in the future.)
1050 – 1100 hrs.	<ul style="list-style-type: none"> • Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) • Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose off e-waste in the formal chain) 	Participants get to know the e-waste rules and responsibility of every stakeholder.
1100 – 1130 hrs.	<ul style="list-style-type: none"> • The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) • What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) 	<ul style="list-style-type: none"> • Participants will get to know the environmental and health hazards of improper recycling of e-waste
1130 – 1145 hrs.	<ul style="list-style-type: none"> • What are the overall health and environmental hazards of improper recycling of e-waste • How can you become a formal collection partner within the ambit of the rules 	<ul style="list-style-type: none"> • Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers.
1145 – 1200 hrs.	<ul style="list-style-type: none"> • What are the state of the art dismantling and recycling techniques in the country and around the world? 	Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated

Session timing	Session topic	Objective of coverage of topic
1200 – 1215 hrs.	<ul style="list-style-type: none"> Case studies on formalisation of informal sector actors in the country (15 minutes, talking and presenting different case studies of how informal sector actors have formalised and are reaping the benefits if formalisation) 	<ul style="list-style-type: none"> Participants will get real life examples of informal sector actors who have formalized and are working within the rules
1215 – 1230 hrs.	<ul style="list-style-type: none"> QUESTION/ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	
1230 hrs. onwards	<ul style="list-style-type: none"> Food Distribution 	

Background Work Details

Went to the places where Informal Sector people are located with our Partner National Youth Welfare Association and Mr. L. D. Bharali of NYWA helped in making Informal sector aware about the program.

Challenges

Challenges were faced during the program. Some of the challenges are listed below:

01. It was a challenge to bring informal sector because it is unorganized which created problem in targeting the large group at a time.

02. Due to irregular distribution of the informal sector in the state it became difficult to connect with every person in a day.

03. People were not ready to travel till the event location because of the clash in their working hours & event hours.

Recommendations

E-waste hubs should be made area wise and they should be targeted and the event should be organized near them.

Event should be organised either on holidays or after their working hours get over.

Support

List of managers of e-waste recyclers can be given, so that they can be targeted and through their support these people can be called.

Learnings

It was difficult to find only e-waste recyclers due to in organization They were not ready to attend the event on working day.

Outcome

People came up with questions regarding the e waste techniques that they can practise.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Detailed list of Attendees

S.no	Name	Contact No.
1	Ujjal Chaudhary	8876853848
2	Pankaj Roy	9706265532
3	Hamidar Rehman	9707607513
4	Arun Kumar Semapoh	9864209823
5	Arun Das	9678366797
6	Sudip Kalika	7896007125
7	Saurabh Jyoti Bhatta	9577884704
8	Sarbani Das	9406136330
9	Animesh Das	9435697584
10	Lyon Manak	9415810916
11	Akar Mazurder	8011589880
12	Prassut Rajdhera	8638645256
13	Shreyashi Das	9401410309
14	Ankita Chaudhary	8723978971
15	Abhiraj Kushik	8723070257
16	Nitu Sharma	9854862030
17	Pooja Mezumder	8752914521
18	Chufing Prrahma	8783984519
19	Geoffairboun Iawbar	8014603443
20	Udol Ranjan Kolita	7896681298
21	Jyotisharma Pathak	9508929426
22	Pynelunpor Khasthagran	8403817046

23	Pramod Prince	8011012810
24	Iesif Ahmed	9706959070
25	Vijay Prasad	9436702594
26	Papul Changuri	7896232433
27	Smariti	8724890149
28	Gitu Das	9954349176

03

Imphal

18 / 07 / 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Imphal on 18th July 2017 for State's informal sector.

The Workshop was to be held at Hakka Bazar, Imphal. Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The garbage collectors from the informal sector were invited to attend the event.

Due to some irregular activities performed by the representatives of Action for Welfare and Awakening in Rural Investment (AWARI) an NGO in Manipur the event got abandoned.

Objective

The main aim of the Workshop was to raise awareness across various levels of society to reduce the adverse impact of e-Waste on environment and health arising out of the polluting technologies used in recycling in the unorganized sector.

Outcomes

Due to some unexpected events and incorporation of NGO the event got cancelled.

To ensure participation, we changed the venue to Hakka Bazar, Club House (earlier it was IIIT Manipur), where informal sector is located. However, we could not conduct the workshop there as well.

Challenges

01 Language barrier was a major challenge faced.

Awareness workshop on Environmental Hazards of Electronic Waste

Target Audience

Informal Sector

Venue

Hakka Bazar, Club House,

Imphal

Learnings

People were co-operative and showed interest in attending the event.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



MAIT 3mo

MAIT in association with the Ministry of Electronics & IT, CEAMA and NASSCOM Foundation is organizing the Awareness workshops on Environmental Hazards of Electronic Waste. [...see more](#)



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Awareness workshop on Environmental Hazards of Electronic Waste



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04

Indore

28 / 07 / 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Indore on 28th July 2017 for State's IT/ Electronic Item manufacturers.

The Workshop was held at Kamaal Community Hall, Indore wherein Shri Gautam Mehra, Consultant, MAIT conducted the Training Session on the occasion. The manufacturers of electronic products were invited to attend the workshop.



Workshop

The key aspects of e-Waste management and the E-waste Management Rules 2016 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

Outcomes

The event got ruled out as no one turned up. Majority attendees were Muslim and due to Friday prayers, the people didn't come.

Challenges

01. People didn't showed interest.
02. Unfavorable climatic conditions and heavy rains caused problem for people to commute

Awareness workshop on Environmental Hazards of Electronic Waste

Target Audience

Informal Sector

Venue

Kamaal Community Hall,
Khajrana, Near Dargah, Indore,

Learnings

Event should be organized on non-festive days or in evening.

Recommendations

Formal sectors should be called after their office hours are completed.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop





Empowering entrepreneurs of Informal Sector by incentivizing characterization of E-Waste is much needed initiative. MAT in coordination with the Ministry of Electronics & IT, CEMA and WASSCOM foundation is organizing a workshop on hazardous ... see more

E-WASTE AWARENESS WORKSHOP

Formal Event Venue
Kamaal Community Hall, 2, Habib Colony, Khajrana, Near Dargah, Indore, Madhya Pradesh 452015
TIME : 10:30 AM to 01:30PM

Date: 29th July 2017

Informal Event Venue
Shri Meerd Shabriya Swarnkaar Mewar Samaj Dharansala, 39/1 Jagdish Mandir, Behind Venkatesh Mandir, Chatribagh, Indore
TIME : 8:00PM to 9:30PM

For Informal
Dulgeret Municipality Office, Jewahar Nagar, Kavery Nagar, Redharpalayam, Puducherry, 605009
Timings: 12:00 Noon till 2:00PM



MAT invites you for the workshop on negative impacts of E-Waste on our health at Rajahmundry

E-WASTE AWARENESS WORKSHOP

Formal Event Venue
Kamaal Community Hall, 2, Habib Colony, Khajrana, Near Dargah, Indore, Madhya Pradesh 452015
TIME : 10:30 AM to 01:30PM

Date: 29th July 2017

Informal Event Venue
Shri Meerd Shabriya Swarnkaar Mewar Samaj Dharansala, 39/1 Jagdish Mandir, Behind Venkatesh Mandir, Chatribagh, Indore
TIME : 8:00PM to 9:30PM



MAT invites you for the workshop on negative impacts of E-Waste on our health at Rajahmundry

Invited	50
Attended	0

4.1

Indore

28 / 07 / 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Indore on 28th July 2017 for State's informal sector.

The Workshop was held at Kamal Community Hall, Indore Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The electronic garbage collectors from the informal sector attended the session.



The main aim of the Workshop was to raise awareness across various levels of society to reduce the adverse impact of e-Waste on environment and health arising out of the polluting technologies used in recycling in the unorganized sector.

The key aspects of e-Waste management and the E-waste Management Rules 2016 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

Awareness workshop on Environmental Hazards of Electronic Waste

Target Audience

Informal Sector

Venue

Shri Meerd Shatriya Swarnkaar Mewar Samaj Dharamsala, Chatribagh, Indore

Trainer expressed following points to the informal sector on E-Waste:



Responsibilities of different stakeholders within the rules who are disposers of e-waste

What are the steps which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler?

The role which the informal sector can play within the rules

What are the overall health and environmental hazards of improper recycling of e-waste?

Importance of proper recycling of e-waste

Impact of disposing e-waste in soil & waster

How can they become a formal collection partner within the ambit of the rules?

What are the state-of-the-art dismantling and recycling techniques in the country and around the world?

What are the overall health and environmental hazards of improper recycling of e-waste

Objectives

At the end of the workshop, participants will be able to:

Demonstrate knowledge and understanding on E-waste management and its social and environmental impacts
 Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment.

Session timing	Session topic	Objective of coverage of topic
1500 – 1540 hrs.	Registration, HI Tea & Snacks	Registration, HI Tea & Snacks
1540 -1600 hrs	<p>Introduction of participants (20 seconds for each participant)</p> <p>Introduction of the project (5 minutes by the person who is conducting the workshop)</p> <p>Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions)</p> <p>Introduction to e-waste rules (10 minutes, 2011 rules and the revised 2016 rules)</p>	Participants will get to understand the need for formalizing so that their livelihoods are secured in the future.)
1600 – 1630 hrs.	<ul style="list-style-type: none"> Responsibilities of different stakeholders within the rules who are disposers of e-waste (15 minutes, explaining how different disposers have been mandated to dispose of e-waste in the formal chain) What are the state of the art dismantling and recycling techniques in the country and around the world? 	<p>Participants get to know the e-waste rules and responsibility of every stakeholder.</p> <p>Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated</p> <p>Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated</p>
1630 – 1645 hrs.	<ul style="list-style-type: none"> What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) 	<ul style="list-style-type: none"> Participants will get to know the environmental and health hazards of improper recycling of e-waste Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1645 – 1700 hrs.	<ul style="list-style-type: none"> What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) 	Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection
1645 – 1700 hrs.	<ul style="list-style-type: none"> Case studies on formalisation of informal sector actors in the country (15 minutes, talking and presenting different case studies of how informal sector actors have formalised and are reaping the benefits if formalisation) 	<ul style="list-style-type: none"> Participants will get real life examples of informal sector actors who have formalized and are working within the rules
1700 – 1715 hrs.		
1715 hrs. onwards	<ul style="list-style-type: none"> FOOD DISTRIBUTION 	

Background Work Details

Went to the places where Informal Sector was located and educated them about the event and made them understand about the importance of it. A Local resident of Indore also provided their support in connecting with the informal sector and in executing the event.

Challenges

Challenges were faced during the program. Some of the challenges are listed below:

- 01.No NGO provided their support.
- 02.Being event day to be Friday the Muslim people were not able to attend.
- 03.Unfavorable climatic conditions and heavy rains caused problem for people to commute

Recommendations

- Event should be organized after their working hours get over.
- Event should be conducted where informal sector people are located.

Learnings

- Events should be conducted on non-festive days.
- 2Events should be done in evenings.

Support

NGOs and volunteers that are involved in Swachh Bharat Abhiyan can provide us help in connecting with these people.

Outcomes

People understood the importance of e-waste management.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



4.2

Indore

19 / 08 / 2017

Month

August

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Indore on 19th August 2017 for State's informal sector.

The Workshop held at Atala Bazar, Kadahu Ghat Indore. Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The informal sector was invited to the event. Nawab Bhai (Leader of Atala Bazar) and his workers helped us in gathering the informal sector. Mr. Ramesh Kuril a local resident of Indore provided his support in mobilizing the informal sector.



Trainer expressed following points to the informal sector on E-Waste:

To create an E-waste collection channelization system.

Reduce Hazardous substances in Electrical and Electronic components.

Responsibilities of different stakeholders within the rules of e-waste

Awareness workshop on Environmental Hazards of Electronic Waste

Target Audience

Informal Sector

Venue

Atala Bazar, Kadahu Ghat, Indore

To create an E-waste collection channelization system.

Reduce Hazardous substances in Electrical and Electronic components.

Responsibilities of different stakeholders within the rules of e-waste

Steps, which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW (Municipal Solid Waste).

Environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

On becoming formal collection partner within the ambit of the rules

The state-of-the-art dismantling and recycling techniques followed globally

Impact on health and environment due to improper disposal/ recycling of e-waste



Objectives

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
 Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
 Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment
 Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
15:00-15:10	<ul style="list-style-type: none"> • Introduction of participants (20 seconds for each participant) • Introduction of the project (5 minutes by the person who is conducting the workshop) • Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
1510-1540	<ul style="list-style-type: none"> • Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) • Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose of e-waste in the formal chain) • The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	<ul style="list-style-type: none"> • Participants will get to know the environmental and health hazards of improper recycling of e-waste.
1540-1610	<ul style="list-style-type: none"> • What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) • What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	<ul style="list-style-type: none"> • Participants will get to understand the need for formalizing so that their livelihoods are secured the future.
1610-1640	<ul style="list-style-type: none"> • How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) • What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorized recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to 	<ul style="list-style-type: none"> • Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection
1640 –1710	<ul style="list-style-type: none"> • What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done) 	<ul style="list-style-type: none"> • Participants will get to learn of how environmentally sound recycling is done and should be done so that
1710–1730	<ul style="list-style-type: none"> • QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	
	<ul style="list-style-type: none"> • Food Distribution 	

Background Work Details

Mr. Ramesh Kuril a local resident of Indore also provided his support in connecting with the informal sector and in executing the event.

Nawab Bhai (Leader of Atala Bazar) and his workers helped our representatives in gathering the informal sector by visiting the location where informal sector was located.

Event Attendees

- Scrap Dealers.
- Electronic Mechanics
- Electronic Repair Workers
- Recyclers

Challenges

Challenges were faced during the program. Some of the challenges are listed below:

- According to supervisors it was very challenging for them to educate informal sector about e-Waste.
- It was very difficult for supervisors to manage Informal Sector people during food distribution because participants started quarrelling with each other.
- It was difficult for supervisors to write their names as people were not ready to share their details.
- It was a challenge to bring informal sector to the event because of immobilization, due to which supervisors had to connect with each participant personally.
- Some people demanded money in return for attending the event.

Limitations

- People were reluctant to attend as it would affect their daily wages.
- No motivation was seen in Informal Sector because people at ground level are uneducated and all they cared about is their livelihood.

Outcomes

- Successful session was held.
- People understood the harmful effects of the improper e-waste management.

People from the informal sector showed up interest and asked questions related to the points discussed.

People from the informal sector agreed to adopt different measures and methods on e-waste management and e-waste production.

Support

Need support from local bodies to engage with people of different fields and mobilization.

Permissions to conduct such workshops at public places should be provided.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop





Invited	400
Attended	220
Recorded	186

Detailed list of Attendees

Rahul	97701616719	Lyon Manak	9415810916
Raju	982609810	Akar Mazurder	8011589880
Ganesh	7770840619	Prassut Rajdhera	8638645256
Bablu	9617466195	Shreyashi Das	9401410309
Virat	982609810	Ankita Chaudhary	8723978971
S.Singh	7770840619	Abhiraj Kushik	8723070257
Arathukha	9617466195	Nilu Sharma	9854862030
Aahmad	7869637223	Pooja Mezumder	8752914521
Smamuaddin	7400600427	Chufing Prrahma	8783984519
Suresh Kumar	9981591500	Geoffairboun lawbar	8014603443
Raghumath Savaide	9753240920	Udol Ranjan Kolita	7896681298
Aanavar	9755968794	Niraj Batra	

Md. Reeman Gori	9826171468	Sonu Bhai	9827070739
Rakesh	9302929222	Mvish	9091825577
Aahnga	9981722342	Skhana	7415181343
Md. Mujoohda	9827315782	Gajara	8103656105
Md. Sajid	7677666613	Javed	
Aagani	9009358684	Vjnder	8878829349
Junaal	9827798888	Baba Bhai	9009674490
Tahir		Kishor	
Aeslam		Abaraar Khan	8370030197
Basir	9826477460	Bura Bhai	9425911600
Asarad	9827631095	Rafik	9893083098
Ralai Babu	9098246205	Nafish	9179916206
Chanda Ma	9926978697	Rahish	998102247
Bhraya Bhai	9179913002	Saiju Bhai	9827725647
Ahmad	9977809308	Bablu	8109085188
Narukha	7389657530	Sakbala	9755646631
Md. Hanif	741544485	Anshal	7354736367
Sayab		Shubam Bhai	9300945126
Md. Yun	9827131450	Nawab	8461996419
Elaysha	7415110861	Rohit	9893320279
Yakub Jai		Emiyata	9826830479
Md. Utaf	9098297508	Javed	9844902058
Kiom Makhi		Yakub Jai	9893722337
Rohira		Madhu Kar	9302929111
Ajay		Ramdeep	8223846208
Baiti Nakur	9827238382	Jadeesh	9009501971
Rafi	9826667778	Daltee Lal	
Maibrahim	9826454585	Sunil Sharma	9827330029
Rafun Aulka	9827006571	Monu Shaahda	8889500006
Kamal	9770232933	Gulam Nabhi	9755526129
Hafiom	9961975470	Salim	982732574
Enatijsha	9961975470	Pankaj Roy	9706265532
Raju	9990713176	Hamidar Rehman	9707607513
Babeen	9997173644	Arun Kumar Semsooh	9864209823

Rakesh	9827799411	Arun Das	9678366797
Chotal Lal Gupta	7047948686	Sudip Kalika	7896007125
Salim	9827381313	Saurabh Jyoti	9577884704
Rahul	97701616719	Lyon Manak	9415810916
Raju	982609810	Akar Mazurder	8011589880
Ganesh	7770840619	Prassut Rajdhera	8638645256
Bablu	9617466195	Shroyashi Das	9401410309
Virat	982609810	Ankita Chaudhary	8723978971
S.Singh	7770840619	Abhiraj Kushik	8723070257
Arathukha	9617466195	Nitu Sharma	9854862030
Aahmad	7869637223	Pooja Mezumder	8752914521
Smamuaddin	7400600427	Chufing Prahma	8783984519
Suresh Kumar	9981591500	Geoffairboun lawbar	8014603443
Raghunath Savaide	9753240920	Udol Ranjan Kolita	7896681298
Aanavar	9755968794	Niraj Batra	
Guddu	9009564395	Monal Srivastava	
Md. Jahid	7586698794	Virendra Yadav	9855381563
Murika	9329430337	Shashi Roy	
Ashif	9754955576	Mahavir	
Md. Saqib Ghofi	9893368611	Amarjeet Sahu	
Upashik	9277531019	Manoj Jaiswal	9308032545
Raman		Rupesh Gupta	
Shabaad	7869595477	Jai Shankar	
All Darbar	9039486406	Barjnath Kumar	
Munna Lal	9659469448	Akhilesh	8578045546
Sanjay	8982605200	Meganshah	9507842037
Shahan	8103316900	Sanjay Sharma	
Riyam	7898222312	Abhinav Kumar	
Sanjay	7415131843	Anil Jaiswal	9835781621
Tanu	9993139117	Sunil Kumar	9873295427
Lakha	9009688572	Gaurav Kumar	
Gulim		Pappu Sah	
Goofu	9827373709	Rakesh Das	

Pashir	74191813111	Viraat	
Nirmal	9977356470	Amit Kumar	
Nifu	9977735999	Vinodh	
Aanavar	8871667701	Sintu Sah	7654900603
Arad	990077697	Vinay Kumar	9128914205
Pifu	9893360550		
Rafik	9822002568		
Mahinif	9993903705		
Bablu	7898133688		
Javed	9302139504		
Aanashav	9111780512		

5

Kolkata

19 / 07 / 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Kolkata on 19th July 2017 for State's IT/ Electronic Item manufacturers.

The Workshop was held at Bharat Sabha Hall, Bow bazar, Kolkata, West Bengal, Indore wherein Shri Gautam Mehra, Consultant, MAIT conducted the Training Session on the occasion. The manufacturers of electronic products were invited to attend the workshop.



- The key aspects of e-Waste management and the E-waste Management Rules 2016 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness

on e-Waste management.

Outcomes

Only one person from formal sector turned up at the event.

Challenges

Challenges were faced during the program. Some of the challenges are listed below:

Due to clash between working hours & event hours the people were reluctant to come.

Awareness workshop on Environmental Hazards of Electronic Waste

Target Audience

Informal Sector

Venue

Bharat Sabha Hall, Bow bazar, Kolkata, West Bengal

Learnings

Event was organized during their working hours so people didn't turn up.

Recommendations

Formal sectors should be called after their office hours are completed.
Events should be conducted on days when market is closed or on holidays.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Invited	30
Attended	1

5.1

Kolkata

19 / 07 / 2017

Month
July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Kolkata on 19th July 2017 for State's Formal sector.

The Workshop was held at Bharat Sabha Hall, Kolkata. Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The electronic garbage collectors from the informal sector attended the session.



Awareness workshop on Environmental Hazards of Electronic Waste

Target Audience
Informal Sector

Venue
Bharat Sabha Hall, Bow bazar,
Kolkata, West Bengal



The main aim of the Workshop was to raise awareness across various levels of society to reduce the adverse impact of e-Waste on environment and health arising out of the polluting technologies used in recycling in the unorganized sector.

Objectives

At the end of the workshop, participants will be able to:

- Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
- Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
- Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment
- Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
1630 – 1640 hrs.	Registration, HI Tea & Snacks	Registration, HI Tea & Snacks
1640 -1700 hrs.	<ul style="list-style-type: none"> Introduction of participants (20 seconds for each participant) Introduction of the project (5 minutes by the person who is conducting the workshop) Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) Introduction to e-waste rules (10 minutes, 2011 rules and the revised 2016 rules) 	Participants will get to understand the need for formalizing so that their livelihoods are secured in the future.)
1700 – 1720 hrs.	<ul style="list-style-type: none"> • Responsibilities of different stakeholders within the rules who are disposers of e-waste (15 minutes, explaining how different disposers have been mandated to dispose off e-waste in the formal chain) • What are the state of the art dismantling and recycling techniques in the country and around the world? 	Participants get to know the e-waste rules and responsibility of every stakeholder. Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1720 – 1735 hrs.	<ul style="list-style-type: none"> • What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) 	Participants will get to know the environmental and health hazards of improper recycling of e-waste
1735 – 1745 hrs.	<ul style="list-style-type: none"> • What are the overall health and environmental hazards of improper recycling of e-waste • How can you become a formal collection partner within the ambit of the rules 	Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers.
1745 – 1800 hrs.	<ul style="list-style-type: none"> • Case studies on formalisation of informal sector actors in the country (15 minutes, talking and presenting different case studies of how informal sector actors have formalised and are reaping the benefits if formalisation) 	Participants will get real life examples of informal sector actors who have formalized and are working within the rules
1800 – 1815 hrs.	<ul style="list-style-type: none"> • QUESTION/ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	
1815 hrs. onwards	<ul style="list-style-type: none"> • FOOD DISTRIBUTION 	

Trainer expressed following points to the informal sector on E-Waste:



Responsibilities of different stakeholders within the rules who are disposers of e-waste

What are the steps which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler?

The role which the informal sector can play within the rules

What are the overall health and environmental hazards of improper recycling of e-waste?

Importance of proper recycling of e-waste

Impact of disposing e-waste in soil & waste

Background Work Details

Ganeshnagar SC/ST Yuba Sangha (G.S.S.Y. S.) was our NGO partner that went to the places where Informal Sector was located. They helped us in making these people aware about the program and why it is important to attend. Event topics and discussions points were translated and delivered in local language.

Challenges

Challenges were faced during the program. Some of the challenges are listed below:

It was not a challenge to bring informal sector but the main problem was to connect with everyone personally because of immobilization.

People were not ready to travel till the event location due to clash between working hours & event hours.

Recommendations

E-waste hubs should be made area wise and they should be targeted and the event should be organized near them.

Event should be organized after their working hours get over.

Learnings

People didn't turn up due to the clash in their working hours and event hours
They were not ready to travel till event location.

Support

SPCB can provide us the location where these people live and can help in mobilizing the sector before the event.
NGOs and volunteers that are involved in Swachh Bharat Abhiyaan can provide us help in connecting with these people.

Outcomes

People understood the harmful effects of the improper e waste management.

They agreed to adopt different measures of handling the e-waste production.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Invited 250

Attended 60

Detailed list of Attendees

S.no	Name	Contact No.	S.no	Name	Contact No.
1	Nabahr Das	8073754467	32	Parvati Devi	
2	Sanjan	9062195064	33	Anju Devi	
3	Nagma		34	Manju Gujrati	
4	Rinku Mohali	9681278230	35	Rekha Gujarati	
5	Sheela Devi	9681278230	36	Shankar Sahu	

Basir	9826477460	Bura Bhai	9425911600
Asarad	9827631095	Rafik	9893083098
Ralai Babu	9098246205	Nafish	9179916206
Chanda Ma	9926978697	Rahish	998102247
Bhraya Bhai	9179913002	Saiju Bhai	9827725647
Ahmad	9977809308	Bablu	8109085188
Narukha	7389667530	Sakbala	9755646631
Md. Hanif	741544485	Anshal	7354736367
Sayab		Shubam Bhai	9300945126
Md. Yun	9827131450	Nawab	8461996419
Elaysha	7415110861	Rohit	9893320279
Yakub Jai		Emiyata	9826830479
Md. Ulaif	9098297508	Javed	9644902058
Kiom Makhi		Yakub Jai	9993722337
Rdhira		Madhu Kar	9302929111
Ajay		Ramdeep	8223846208
Baiti Nakur	9827238382	Jadeesh	9009501971
Rafi	9826667778	Dailee Lal	
Maibrahim	9826464585	Sunil Sharma	9827330029
Ratun Autka	9827006571	Monu Shaahda	8889500006
Kamal	9770232933	Gulam Nabhi	9755526129
Hariom	9961975470	Salim	982732574
Enatijsha	9961975470	Pankaj Roy	9706265532
Raju	9990713176	Hamidar Rehman	9707607513
Babaan	9997173644	Arun Kumar Semapoh	9864209823
Rakesh	9827799411	Arun Das	9678366797
Chotal Lal Gupta	7047949686	Sudip Kalika	7896007125
Salim	9827381313	Saurabh Jyoti Bhatta	9577884704
Ravi	8097788179	Sarbani Das	9406136330
Ravi Jain	88718820106	Animesh Das	9435697584

5.2

Kolkata

25 / 08 / 2017

Month
August

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Kolkata on 25th August 2017 for State's Formal sector.

The Workshop was held at Tekpaya Village, Sangrampur, Kolkata. Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The electronic garbage collectors from the informal sector attended the session.



Trainer expressed following points to the informal sector on E-Waste:

To create an E-waste collection channelization system.

Reduce Hazardous substances in Electrical and Electronic components.

Responsibilities of different stakeholders within the rules of e-waste

Steps, which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler.

Extended Responsibilities to producers to manage a system of E-waste collection/

Awareness workshop on Environmental Hazards of Electronic Waste

Target Audience
Informal Sector

Venue
Tekpaya Village, Sangrampur
Kolkata, West Bengal

reverse logistics and channelizing it through a registered dismantler/recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW (Municipal Solid Waste).

Environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

On becoming formal collection partner within the ambit of the rules

The state-of-the-art dismantling and recycling techniques followed globally

Impact on health and environment due to improper disposal/ recycling of e-waste



Objectives

At the end of the workshop, participants will be able to:

- Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
- Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
- Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment
- Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
1440 -1500	<ul style="list-style-type: none"> Introduction of participants (20 seconds for each participant) Introduction of the project (5 minutes by the person who is conducting the workshop) Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	<ul style="list-style-type: none"> Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
1500 – 1520	<ul style="list-style-type: none"> What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	<ul style="list-style-type: none"> Participants will get to understand the need for formalizing so that their livelihoods are secured the future.
1535 – 1545	<p>How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules)</p> <p>What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorized recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognized)</p>	<p>Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/ recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.</p>
1545 – 1600	<p>What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done)</p>	<p>Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated</p>
1600 – 1615	<p>QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS</p>	
1615 hrs. onwards	<p>FOOD DISTRIBUTION</p>	

Background Work Details

Went to the places where Informal Sector was located and made the people aware about the program and why it is important to attend.

Challenges

Challenges were faced during the program. Some of the challenges are listed below:

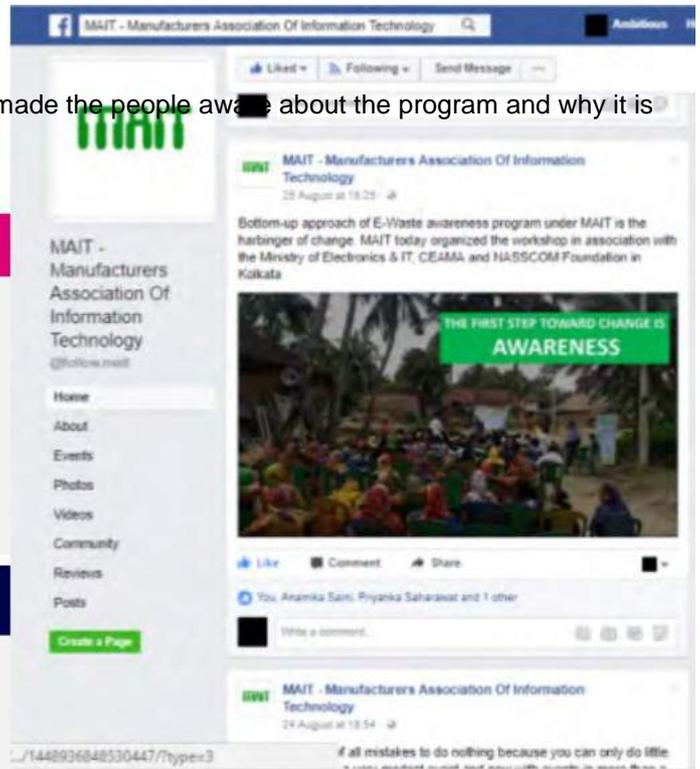
- Neither NGOs nor any local bodies provided their support.
- People were not ready to travel to the venue due to a clash of working hours & event hours.

Learnings

- People didn't turn up due to the clash in their working hours and event hours.
- Events should be conducted on non-festive days.
- Events should be done in evenings.

Support

Md. Sabir & Saleem Sheikh, helped us in mobilizing the people from informal sector.



Invited	500
Attended	255
Recorded	244

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Detailed list of Attendees

Name	Mobile	Name	Mobile
Abdulhai Laskar		Saima Khatun	
Nurjahan Bilai		Saima Khatun	
Asham Malia		Adiba Khatun	
Sahim Laskar		Jasmina Khatun	
Mamoni	8967031649	Masuma Khatun	
Nsarina Khatun		Rubaiya Khatun	
Akila Bibi		Sahara Bibi	
Saydel Laskar	8967088867	Sanorai Sardar	
Atiyar Koyal		Hajratullah	
Sajjul Laskar		Masuda Khatun	
Emadul		Runa Khatun	
Kadar		Mina Khatun	
Tanuja Khatan		Akram Khatun	
Hedai Laskar		Salma Bibi	
Sadikul Laskar		Mina Bibi	
Haium Laskar		Sahin Bibi	
Anoyana Laskar		Sunaina Khatun'	
Nurjahan Bilai		Mustakina Bibi'	
Irfan Sarif Khan		Montajil Fakin	
Tamanna Bilai		Shaira Bilai	
Mumila Bibi		Akram Kk	
Jaslina Bibi		Morjina Bibi	
Safida Bibi		Nur Khatun	
Erar Laskar		Hafisa	
Faijulla Laskar		Mayoon	
Amirul Laskar		Ibhran Laskar	
Ibhran Laskar		Adbdul	
Amirhassan Laskar		Zakir	
Jamiruddin Laskar		Shahjan	

Samimisk		Majababu	
Salower Laskar		Mamuddin/Hami n	
Sahid Sk	9831030492	Sabudin	
Sahel Laskar		Sabudin	
Mumuadin Laskar		Sheik Haider	
Tinuja Laskar		Akram	
Marufa Laskar		Sakim	
Nuragini Laskar		Azagar Shekh	
Samina Laskar		Azmmin	
Tanqulia Laskar		Shekh Salam	
Mahbuba Khatun		Safi Sheekh	
Fatema Khatun		Romjan	
Sunaina Khatun		Saira Bibi	
Adamali Laskar		Sabera Bibi	
Sanayer Khan		Sumaiya Laskar	
Riyash Laskar		Tahoya Bibi	
Mahabib Laskar		Masodik Laskar	
Rahul Laskar		Janehara Bilal	
Janara		Rakib Sk	
Anwar	9674651517	Jasmina Laskar	
Ram Shaeda		Emraj Halder	
Moudin		Rakir Sk	
Salim Mustak		Emrani Molla	
Habibala Halder		Masumbilla Halder	

Miraz		Ajbane Laskar	
Sanilla Laskra		Sadibulla Laskar	
Moudin		Kulsum Khatun	
Subhash Laskara		Naima Khatun	
Riyas Khan		Salman Laskar	
Haroom		Soota Devi	
Muslim		Soni Paswan	
Lafu		Sanjana	

Abdulla Khan		Rani Devi	
Jubai Mulla		Sunita Devi	
Abyar Khayal		Mehroom Begum	
Shabir		Noor Jahan	
Ram Dayal Laskar	9831233583	Pooja Mohali	
Tipan Rai		Tulsi	
Nooran Bibi		Dhani Mohali	
Tugul Laskar		Devkan Gujrati	9432106835
Regema Laskar		Arjun	9831640021
Cholina Bibi		Sunita	903113259
Endadann Laskar		Asha Devi	9088086616
Ibham		Saleem	9903232399
Imran		Sombhu	9903954918
Khalima Bibi		Deepak Jaiswal	9836879009
Mulayed Laskar		Md Ilyas	9007886522
Zimur Mulla		Soni Mandal	
Naskidul		Madhu	
Mansura Khatoon		Rekha	
Moni Hassan		Lalita Devi	
Mahroof		Rinku Devi	
Abadul		Parvati Devi	
Mahdhi Khatoon		Anju Devi	

Moni Hasan		Manju Gujrati	
Mahruf		Rekha Gujarati	
Skselim	9903232399	Shankar Sahu	
Samamin Md	8967586006	Rekhi Mandal	
Mahibar		Gurgi Devi	
Nasifa Fakir		Rukshan Khan	8584928666
Safiulla Laskar		Ramu	
Mehndi Hassan		Simi Gujrati	
Jasmina Khatoon	8116413030	Rita Paswan	
Sarvar Laskar		Sukumari Paswan	

5.3

Kolkata

26 / 08 / 2017

Month

August

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Kolkata on 26th August 2017 for State's informal sector.

The Workshop was held at Chandannagar, PS Namkhana, South 24 Paraganas West Bengal, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The electronic garbage collectors from the informal sector attended the session.



Trainer expressed following points to the informal sector on E-Waste:

To create an E-waste collection channelization system.

Reduce Hazardous substances in Electrical and Electronic components.

Responsibilities of different stakeholders within the rules of e-waste

Workshop on Environmental Hazards of E-Waste for Informal Sector

Target Audience

Informal Sector

Venue

Chandannagar, PS Namkhana, South 24 Paraganas

Steps, which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler.

Extended Responsibilities to producers to manage a system of E-waste collection/ reverse logistics and channelizing it through a registered dismantler/recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW (Municipal Solid Waste).

Environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

On becoming formal collection partner within the ambit of the rules

The state-of-the-art dismantling and recycling techniques followed globally

Impact on health and environment due to improper disposal/ recycling of e-waste



Objectives

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
 Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
 Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment
 Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
1130 – 1140.	Registration, HI Tea & Snacks	Registration, HI Tea & Snacks
1140 -1200	<ul style="list-style-type: none"> Introduction of participants (20 seconds for each participant) Introduction of the project (5 minutes by the person who is conducting the workshop) Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
1200 – 1220	<ul style="list-style-type: none"> Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose of e-waste in the formal chain) The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	Participants will get to know the environmental and health hazards of improper recycling of e-waste.
1220 – 1235	<ul style="list-style-type: none"> What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components of e-waste) What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	<ul style="list-style-type: none"> Participants will get to know the environmental and health hazards of improper recycling of e-waste
1235 – 1245	<ul style="list-style-type: none"> How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorized recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognized) 	<ul style="list-style-type: none"> Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.
1245 – 1300	<ul style="list-style-type: none"> What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done) 	<ul style="list-style-type: none"> Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1300 – 1315	QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS	

Background Work Details

Mr. Rash Behari Patra was a local resident who helped our representative in finding the venue and location where people from informal sector were located and made them aware about the program and why it is important to attend.

Challenges

01.It was a challenge to bring informal sector because it is absolutely unorganized, it was extremely difficult to mobilize & address a large group at a time.

02.Motivating participants to attend such session is one of the biggest challenge faced by operations team.

Learnings

**People didn't turn up due to the clash in their working hours and event hours.
Events should be done in evenings.**

Outcomes

People understood the harmful effects of improper e waste management.
They agreed to adopt different measures of handling the e-waste production.



Invited	350
Attended	156
Recorded	134

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



NAME	MOBILE NO.	NAME	MOBILE NO.
x	787200844	Souru Senapati	8003330827
Bijoli	9547370591	Subal Bhunia	9647460250
Renuka Raut		Sumanto	9932288462
Gonga Raut		Tapan	9734837793
Puspa Das		Jasuddin SK	9749180862
Debola Mondal		Doulai SK	8348489103
Puspa Pal		Sajarmal SK	8016990455
Dipali Raut		Doluai SK	9733002089
Shivani Bera		Jasuddin SK	8145775563
Sibitai Maiti		Mayaloul	9083417789
Kalpana Mondal		Sarole SK	9645274047
Khiaku Mondal		Rottemallsiloi	9564431205
Bela Khutuya		Puddin SK	8372868294
Bijoy Kumar Manna	8945560226	Haneo SK	9851243787
Parichu Gopal Mondal	9091201517	Morto Pask	9749180862
Dew Kumar Bhunia	9647368094	Naser SK	8906307823
Ajay Mondal		Joerul SK	9749180862
Surjit Pal	8001334592	Abdul SK	8906307823
Ratar Maity	7602198559	Rumgan SK	9749180862
Binupal Shee		Halak SK	9775304584
Dipak Kr. Maima	7319340882	Atubul SK	9744040625
Kanailal Bhunia	9647368094	MO bo Rok SK	
Mukul Shasmal	9732781570	Matalook	8158931002

Name	Contact no	Name	Contact no
Sonu	9229999920	Naveen	9826334824
Rahul	9826639922	Dinesh	
Munna Lal	9827794722	Javed	8962815215
Nikesh	7225870051	Shafik	9301158655
Bablu	9977241119	Maiyan	
Razik	9630895555	Esha	9649533101
Ash	8602995552	Javed	830959470
Mahadshlim	9827381313	Bura	9893454427
Md. Sharraj		Shadik	917441300
Md. Enbal	9300721919	Satish	8817299062
Md. Aslaam	9826477560	Junad	8962605900
Md. Rajin	7415344486	Mayumij	9826028626
Suresh Kumar		Shakif	9820029501
Md. Ramjaan	9826064225	Dilip	9827373701
Md. Rija Raja	9993502173	Kalu Bhai	900956733
Md. Reeman Gori	9826171468	Sonu Bhai	9827070739
Rakesh	9302929222	Mvish	9091825577
Aahnga	9981722342	Skhana	7415181343
Md. Mujeehda	9827315782	Gajarai	8103656105
Md. Sajid	7677666613	Javed	
Aagani	9009358684	Vijnder	8878829349
Junaal	9827799888	Baba Bhai	9009674490
Tahir		Kishor	
Aaslam		Abaraar Khan	8370030197

Robin Das	9933080568	Niraj Kumar	
Nakul Ch. Das		Vinay Shah	
Namita Maity		Maheshwar	
SK Islam		Pintu Kumar	
Intaj SK	9832552789	Nitesh	
Mamtaj Bibi		Vikash Keshri	
M.D Makbul		Sunil Kumar	
Mantu Molia		Kishor Choudhry	
Mohitesh Roy		Vasu More	
Naru Gopal Das	9932327533	Pramod Chopra	
Durgadhan Das	9932327533	MD. Ashraf	
Swapan Roy	9931201070	Amir Salam	
Ajay Kumar Matha	9679358670	Ajeez Rehmad	
Madhu Sudar Maity	9734190649	Zafar	
Utpal Samanta	8001986130	Ismail	
Nani Gopal Das	9734652036	MD.Saqib	
Sanjay	9635263515	Ghori	
Nonjuri		MD.Vaseeb	
Vishal		Rardayalu	
Submeta		Rakesh Verma	
Tataz		Manoj Verma	

5.4

Kolkata

26 / 08 / 2017

Month
August

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Puducherry on 26th August 2017 for State's informal sector.

The Workshop was held at Chandni Chowk Bowbazar Kolkata Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The informal e-waste recyclers & their workers attended the session



Trainer expressed following points to the informal sector on E-Waste:

To create an E-waste collection channelization system.

Reduce Hazardous substances in Electrical and Electronic components.

Responsibilities of different stakeholders within the rules of e-waste

Steps, which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler.

Extended Responsibilities to producers to manage a system of E-waste collection/

Workshop on Environmental Hazards of E-Waste for Informal Sector

Target Audience
Informal Sector

Venue
Chandannagar, PS Namkhana,
South 24 Paraganas

reverse logistics and channelizing it through a registered dismantler/recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW (Municipal Solid Waste).

Environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

On becoming formal collection partner within the ambit of the rules

The state-of-the-art dismantling and recycling techniques followed globally

Impact on health and environment due to improper disposal/ recycling of e-waste



Objectives

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
 Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
 Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment
 Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
1930 – 1940	Registration, HI Tea & Snacks	Registration, HI Tea & Snacks Registration, HI Tea & Snacks
1940 -2000	<ul style="list-style-type: none"> Introduction of participants (20 seconds for each participant) Introduction of the project (5 minutes by the person who is conducting the workshop) Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
2000 – 2020	<ul style="list-style-type: none"> What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	Participants will get to understand the need for formalizing so that their livelihoods are secured the future.
2035 – 2045	<ul style="list-style-type: none"> How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorized recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognized) 	Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.
2045 – 2100	<ul style="list-style-type: none"> What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done) 	Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
2100 – 2115	<ul style="list-style-type: none"> QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	

Food Distribution

Background Work Details

Mr. Vijay Jaiswal (JS Pigment Recycler) helped our representative in finding the locations where the informal sector is located and made the people aware of the program and sharing with them the importance of these workshops .

Mr. Ajay Gupta is a local resident who helped us for the finding venue.

Event Attendees

Hundred % E-Waste Recyclers

Challenges

It was a challenge to bring informal sector because it is absolutely unorganized, it was extremely difficult to mobilize & address a large group at a time.

Motivating participants to attend such session is one of the biggest challenge faced by operations team.

People were not ready to travel to the venue due to a clash of working hours & event hours.

Finding a venue to gather participants is a challenge.

Recommendations

The event should be organized post working hours. People were reluctant to attend as it would affect their daily wages.

No motivation was seen, people at ground level being uneducated are only concerned about their livelihood.

Learnings

People didn't turn up due to the clash in their working hours and event hours.

Events should be conducted on non-festive days.

Events should be done in evenings..

Support

Support from local bodies like SPCB & Municipal corporations for conducting workshops is important.

Data base on local e-waste informal sector will be very helpful in conducting such workshops.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Invited	250
Attended	125
Recorded	99

Detailed list of Attendees

Name	Contact	Name	Contact
Ganesh		Vinod	9883342309
Shivam		Sk Salim	9903232399
Vishwas	3322150198	Shekh Salam	9831030492
Chaudhary	9831734887	Akram	9903075018
Ayush Trade		Sagar	
Bhola		Rajendar	9903738111
B K Enterprises		J P Singh	8420715930
Akash		Prindeshwar	9007942966
Abhishek		Pawan Ku	9674997912
Gupta Bro	332252481	Ratan J	9830927424
Amar	22159536	Badari Pd J	9007197251
Sanjay		Ravi	9883067499
Aman		Gyan	9748116047
Hira	22157085	Jailal	8961732257
Jai Ambay	2216849	Shiv Rattan	9883054528
Pankaj		Shiv	7352853183
S Jaiswal		Rajesh	8584028320
Delip		Santosh	
Rohan		Vipan	9007255282
Prakash		Dhan	9007485955
Maurya		Rajesh	8584028321
Vikram		Samu	9007790329
Dheeraj		Sunil	9748009579
Raj		Deepu	8017944876

Satyam		Raj Kumar	9038522311
Salim		Jitendar	9804979737
Anil		D K Shyam	9933208445
Shyam	9163808780	Arvind	8115998883
Ajay Mandal	8442888471	Deepak	9681155639
Matali	9903838827	Ram Ashish	
Dwarika		Ram Sagar	8420578137
Pankaj	8282833267	Gayan	9748116047
Md Salam		Anil	8013177344
Dolip	8613550892	Ram Sagal	8420578137
Anil	8013177344	Bajrangl	9681165366
Babon	8961957175	Du Sandeep	8910237634
Raja		Kasik	9051998495
Pankaj	8017547204	Sohil	8240698968
Vijay		Monu	9088675080
Akash'	8017744066	Pinku	8282833267
Md Monudin	8001709827	Asmadam	9474429852
Tapan Das	8282804168	Sakeel	7439228175
Rajesh	8697431395	Nandan	9836105003
Nitesh	8697057818	Bikash	7003679388
Sarjeet	9339850895	Sanjeev	7044774397
Sonymak	8697985418	Shbahkam	9831362899
Surendar	9088177576	Sandhu	7872008446
Ghosh	9681170798	Prijoli Doloy	9547370591
Ashok		Renuka Rawat	
Bimal	8420399376		

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Moradabad

17 / 08 / 2017

Month
August

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Moradabad on 17th August 2017 for State's informal sector.

The Workshop was held at Naz banquet hall Moradabad, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. Supported by Mr. R K Singh Regional office, SPCB (State Pollution Control Board).



Trainer expressed following points to the informal sector on E-Waste:

To create an E-waste collection channelization system.

Reduce Hazardous substances in Electrical and Electronic components.

Responsibilities of different stakeholders within the rules of e-waste

Steps, which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler.

Workshop on Environmental Hazards of E-Waste for Informal Sector

Target Audience
Informal Sector

Venue
Naz Banquet Hall, Gali No- 1 Rehmat Nagar, Near Khajurwali Masjid, Karula, Moradabad

Extended Responsibilities to producers to manage a system of E-waste collection/ reverse logistics and channelizing it through a registered dismantler/recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW (Municipal Solid Waste).

Environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

On becoming formal collection partner within the ambit of the rules

The state-of-the-art dismantling and recycling techniques followed globally

Impact on health and environment due to improper disposal/ recycling of e-waste



Objectives

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
 Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
 Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment
 Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
1130-1140	<ul style="list-style-type: none"> • Introduction of participants (20 seconds for each participant) • Introduction of the project (5 minutes by the person who is conducting the workshop) • Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
1140-1210	<ul style="list-style-type: none"> • Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) • Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose of e-waste in the formal chain) • The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	Participants will get to know the environmental and health hazards of improper recycling of e-waste.
1210-1240	<ul style="list-style-type: none"> • What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) <p>What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste)</p>	Participants will get to understand the need for formalizing so that their livelihoods are secured the future..
1240-1310	<ul style="list-style-type: none"> • How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) • What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorized recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognized) 	<ul style="list-style-type: none"> • Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.
2100 – 2115	<ul style="list-style-type: none"> • QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	

Background Work Details

A local resident of Indore helped and connected the supervisor with informal sector.

During the event, **Mr. R.K. Singh (Regional office, SPCB) delivered the speech**

Supervisor visited the areas where people from informal sector were located. He made people aware about the program and convinced them to attend the same.

Event Attendees

- Scrap Dealers.
- Electronic Mechanics
- Electronic Repair Workers
- Recyclers

Challenges

Educating people of informal sector about e-waste awareness was a very difficult task for the supervisor

Supervisor faced trouble during food distribution because the people from informal sector started fighting with each other.

Biggest challenge was to gather everyone from informal sector under one roof. They were not convinced to invest their time and energy in attending a program related to e-waste.

Outcomes

People understood the harmful effects of the improper e-Waste management.

People from the informal sector agreed to adopt different measures and methods of e-waste management and e-waste production.

Support

Support from local bodies like SPCB & Municipal corporations for conducting workshops is important. Data base on local e-waste informal sector will be very helpful in conducting such workshops.

Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Publication : Hindustan (Hindi)
Date : 18th Aug 2017

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop





Invited	550
Attended	250
Recorded	223

Detailed list of Attendees

Name	Contact No	Name	Contact No
Meraaj	9012490999	Riyasat Hussain	
Tasleem	9012191159	Anees	
Harif	9031836491	Miunsaad Ali	
Hafis		Zakir	9680959126
Raja		Raees	9756171842
Istaqar	91053243083	Nazir	9927041817
Babu	9917863323	Ansari	8394919931
Afran	8791863323	Rashid	9368356442
Anaeem		Mohmad Taheer	9837300716
Makkamil		Md Nazim	7500619035
Taejia		Md Ashif	9760260387
Shabbir	9875663534	Haneef	9758525608
Mohsin	8792476789	Waseem	8171531142
Salman		Md Kalim	7417330570
Md Tanveer	9719201063	Md Mobin	9410443332
Ajeet		Md Asihq	9520816053
Akram	991623012	Wasruddin	9690503552
Hafiz		Idrish	8791187277
Md Shaik		Afzal	9119025238
Ansari	9557577568	Movin	8958996543
Kareem		Mahmood	
Hafiz	9758201832	Monazar	8218257760
Md Rustam	9999556611	Barish	8273621914
Balbir		Safid	817188061

Ajay	8882131492	Mahmood	9520452633
Mukim		Appu	7669013328
Shezad		Anees	9917427886
Mohmad Bhai	9758201832	Nanna	9690959067
Wasim	9258763332	Irshad	8267982156
Mahmood		Sarfraz	8881318907
Appu	958532011	Zawed	7417583603
Anish		Akbar	
Irfan		Md Haneef	975872660
Sharfraz	7660013328	Wazeed	
Jawed	91120125238	Babu	
Shazeed		Akeem	
Zubaid	82629825159	Ameer	
Zakir		Rasheed	9917623012
Ansari		Muntwar	
Rashid	7417501328	Ajeem	
Avjal		Laal	9058532011
Md Hameed	9810164612	Md Haneesh	87880098400
Afik	8057292599	Md Jabeed	9720405979
Saleem Javed		Jaweed	8445956866
Jaggu		Musahid	9897570244
Salman		Rahil	9557077508
Sajud	9568623334	Arif	
Junaid	741792640	Salman	
Mohsim	8445979797	Md Shameen	9410030173
Md Jubhar	9528454817	Alam	
Waris	8881565448	Anees	9758201832
Gulam Sabir	9927069354	Akram	9872462490
Sakir Ahmad		Kasim	8267982059
Basir		Amir	8882131491
Samin	8126263767	Md Ansari	
Fahim	9045834434	Shahid	

Istakar	9997238049	Makeem	
Asif	7300769449	Mebob	
Rafiq	8954032957	Nanhe	
Nadeem	9690943131	Salauddin	
Nazeem	8445898807	Safaroz	
Md Azim	7417250491	Sameer Ahmed	
Faizan		Javed	
Habib		Tara	
Wajid Hussain	9760235353	Aadil	9709352654
Md Atiq	9557579754	Aamir	9504051565
Waris	9520816061	Akram	8936126154
Akram	95579013324	Aarif	8252308163
Chand	7869013324	Abdul	8163306154
Masid	9917427889	Zahir	7352540175
Mustak	9520678120	Zyan	82163306154
Navijan		Tahir	9308133189
Mabeen	7417260491	Imran	963198856
Jubair	8126238787	Kamil	7820919919
Yakub	8445972368	Rakesh	9852149716
Zeeshan		Md Babu	7061343533
Arslan	9528469810	Md Iqbal	8969368091
Aslam	9760427884	Salman	7631333961
Ashiq	8126982442	Sunni	8559060146
Asif		Sadiq	8271866152
Fahiruddin	9528454817	Alif	9934603635
Mibarak		Shenwar	8.75012E+19
Nazish	9810174721	Azad	7070098183
Akiruddin		Sakih Ali	9650644699
Mulla Ji		Rizwam	7488279684
Md Imran	9012364492	Saif Han	9204038707
Saneyalam	8218704333	Fizan Ali	9031108054
Raees	8554073630		9031691033

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Md Afeem	9837070429	Ahemad Shezad	9031691033
Asif Ali	8006260661	Zaved Ali	9709305857
Niza		Md Danish	7870417832
Sahnawza	853991815	Raiz	7033404145
Rashid		Syeal Anwar	7319837133
Kasim		Samsheer Khan	8797460853
Suleman		Shadab Akhtar	9924303811
Shoaib	9503882483	Arshad Ayuli	7004404557
Ruud		Md Shafuddin	8092209357
Raheem		Aftab Alam	9155830512
Ladam		Akhar Alam	9852511735
Subahal Ali	9997795929	Ajar Khan'	7004694730
Samsah		Aquib Khan	7004025791
Fumain	7017887728	Buntykhan	8603382441
Ajaz		Shamim Akhtar	8398021796
Mukram	9837912552	Uman	7535964713
Sharif	9012396788	Ansar	9709390890
Sartaz	9760945884	Edrish	9690693987
Sarafalsameer		jabuta	9917511139
Raeesa		Nadeem	
Bade Bhai	9045984109	Sharafat	
Afsar		naimuddin	9830608468
Fahem		Aslam	9568189914
Nasir	9770072269		

6.1

Moradabad

17 / 08 / 2017

Month

August

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Moradabad on 17th August 2017 for State's informal sector.

The Workshop was held at Muskan Marriage hall Moradabad, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. Supported by Mohd. Sabir, Md. Nadeem & Nasir Husain.



Trainer expressed following points to the informal sector on E-Waste:

To create an E-waste collection channelization system.

Reduce Hazardous substances in Electrical and Electronic components.

Responsibilities of different stakeholders within the rules of e-waste

Steps, which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler.

Workshop on Environmental Hazards of E-Waste for Informal Sector

Target Audience

Informal Sector

Venue

Muskan Marriage Hall, Nagphani Nawabpura, Moradabad

Extended Responsibilities to producers to manage a system of E-waste collection/ reverse logistics and channelizing it through a registered dismantler/recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW (Municipal Solid Waste).

Environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

On becoming formal collection partner within the ambit of the rules

The state-of-the-art dismantling and recycling techniques followed globally

Impact on health and environment due to improper disposal/ recycling of e-waste



Objectives

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
 Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
 Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment
 Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
1830-1840	<ul style="list-style-type: none"> • Introduction of participants (20 seconds for each participant) • Introduction of the project (5 minutes by the person who is conducting the workshop) • Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
1910-1940	<ul style="list-style-type: none"> • Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) • Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose of e-waste in the formal chain) • The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	Participants will get to know the environmental and health hazards of improper recycling of e-waste.
1940-2010	<ul style="list-style-type: none"> • What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) <p>What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste)</p>	Participants will get to understand the need for formalizing so that their livelihoods are secured the future.
2010-2040	<ul style="list-style-type: none"> • How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) • What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorized recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognized)) 	Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.
2040 –2110	<ul style="list-style-type: none"> • What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can 	Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
2110 onwards	<ul style="list-style-type: none"> • QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	

Food Distribution

Background Work Details

Local Scrap Dealers and unauthorized dealers don't want their workers to get educated as this would hamper their business.

According to supervisors if the informal sector gets educated about it they will demand more wages which will in return affect their business/ profits.

Went to the places where Informal Sector was located and made the people aware about the program and why it is important to attend

Event Attendees

- Scrap Dealers.
- Electronic Repair Workers

Challenges

It very difficult to mobilize the informal sector because there are no proper places where informal sector is located.

Engaging with these people & convincing them to attend the workshop was a challenge as they fear some legal proceedings against them

Local Scrap Dealers and unauthorised dealers don't want their workers to get educated as this would hamper their business.

During initially interactions cold and rude behaviours of scrap dealers was seen.

Outcomes

- People understood the harmful effects of the improper e-Waste management.
- They agreed to adopt different measures and methods on e-waste management..

Limitations

People had zero interest in attending the training program.

Support

Need support from local bodies to engage with people of different fields and mobilize them. Permissions to conduct such workshops at public places should be provided.

Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Publication : Hindustan (Hindi)
Date : 18th Aug 2017

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop





Invited	650
Attended	320
Recorded	284

Detailed list of Attendees

Name	Mobile No.	Name	Mobile No.
Haji Aslam	9410283427	Junad	
Haji Abraham	8858624720	Akram	9899676751
Haji Mujahir	8077028072	Arif	
Mana	9045537820	Azad	8572982130
Raees Bhai	9837348793	Asharaf	9219687423
Mujahad Ali	9219793934	Sazfaj	
Nanhe		Karan	955748620
Bhagwat Kumar	9927712425	Sahbua	9845201520
Abdul Khaliq	9319363909	Naun	
Chunia		Faizan	8745672098
Naema		Azib	
Rihana		Bablud	967204823
Anam	7037559873	Amaan	
Jyoti		Yamin	9889234416
Anju		Abullah	
Kusum		Rasih	
Neelam		Kahear	
Choti		Iqbal	
Shakuntla		Sakaih	
Poonam		Ghullarm	
Nagma		Mebarb	
Nasrin		Ferid	
Manju	8191951433	Ashim	
Puksar		Babu	

Farzana	7037459873	Chandu	
Samira		Sakil	
Asraf Zahan		Javed	
Aktari		Arif	
Heru		Wasim Akram	
Azima		Md. Mebbooh	9557748293
Sunita		Islam	
Kanti		Shaheed Alam	
Chanda		Ajay	9989589553
Raju		Aakesh	9999491155
Urmila		Anish	8285692145
Usha		Asafiz	
Mamta		Md. Vivla	
Prema		Junad	
Kiran		Jordar	
Pooja		Mulana	
Pinki		Abdul	
Minu		Chubdilal	9998995815
Sonam		Haji Ali	
Rekha		Nassir	
Nanhi		Nazim	
Kanti		Hussain	9895697175
Munni		Akbar	
Champa		Fezan	
Pushpa		Feroz	
Laxmi		Riham	8758817541
Santosh		Bhanil	8568417188
Raees		Abdul	
Rehmat Ali	9045844915	Abdul Kasim	9899614488

Farman		Akram	
Md. Kasim		Abraham	9015010178
Md. Rizwan	7417784886	Pinki	
Ali Ahmad	8881510162	Rizwan Khan	9895708191
Arif	9045328050	Hasan	8745214691
Ashok Kumar		Fazoon	
Mora Bhai		Tahin	8168174820
Md. Imran		Siraj	9015279840
Md. Hanif		Javed	
Akash		Nafie	
Farman		Hanif	
Chand Md.		Ashray Ali	955789891
Md. Asif	9568092832	Hussainza	
Md. Yamin	9368621406	Md. Kalam	
Md. Fahim	8439727774	Alam	9885201781
Ehsan	8958720620	Nagma	
Faizan		Rafika	
Noor Ahmed	9568549443	Bimla	
Wasim Ahmed		Devi	
Sarfraz	9105574310	Amna	
Haj Namim	9837716515	Wahida	
Rashid Hussain	7520348627	Aasma	
Rajender Singh	7351726065	Aamna Begum	
Rizwan		Fatima	
Iqbal		Aqsa	
Rafiq	9259464227	Zainab	
Sartaj	7310836828	Zoya	
Afzal	7078499337	Inayat	
Gulzar Ahmed	8791523669	Asma	
Md. Sabbir	9917175248	Hafsa	

Md. Aslam	9837874543	Asma	
Md. Hanif	9927324187	Hafsa	
Nafid	9997557515	Salima Begum	
Tasleem	8267882797	Humna	
Roasi Ahmad	9997340084	Nazia	
Md. Haider Khan	8512023373	Shabana	
Noor Kanthar	7500469629	Fauzia	
Tahir	8445762880	Rukhsana	
Bhoori		Wajiha Begum	
Husna		Nodia	
Arif		Afsana	
Md. Hasan	9690452997	Ghufran	9927361340
Nafeez	8958208021	Akilem	9259024331
Md. Imran	8797575122	Dilshad	9497689895
Farmar	9259506033	Mebhooh Hasan	9927469876
Babu		Lask Ahmad	8439621982
Nazakat Hussain	7500188293	Wasim	9058678567
Ashim	8927111372	Farid	8126456874
Md. Ashraf	7520096761	Mohsin	9528023280
Md. Rubbi	9897632513	Tohid	8439360996
Md. Hanif		Chand	8926436874
Ishratulla	9412582245	Md. Siray	7409884490
Md. Alam	9760920730	Javed	
Rashid	8755703987	Shakil	8537434549
Aqish		Aman	
Munna		Anasfares	7417814633
Jahafr Alam	8979788513	Aman	7037657716
Wasim	8755806083	Moin Khan	7536828529

Ram	7417193781	Mosim Malik	8057023983
Nafiz	9999275533	Nazakat Khan	
Allauddin		Akib	
Izrail Ahmad	7088561395	Zahangir	9897865224
Sehnawaj	9045818144	Md. Yamin	9837624550
Anwar Hussain		Faizan	
Md. Idris	9045234157	Md. Anas	8265948283
Md. Faheem	9557282022	Sartij Malik	9286142215
Nazim		Sadj Malik	9045456098
Hasim		Bablu	9756757225
Afiz	9899415888	Karan	8057919818
Azam	876475988	Yamin	
Karin	9555367000	Sahbad	9760109279
Mohrn		Md. Ajmal	
Jonad		Md. Saleem	
Wasim		Naeem	
Soiabh	9856780788	Md. Shabish	
Shakar		Majour Hussain	9411611153
Md. Rauf	9775678767	Aaraj Hussain	
Raees		Akram	9557063403
Kalams		Akup	8057212698
Kunal	9768186175	Navijan	
Kamaal		Mustak	
Abdullah		Arslan	
Mukeem		Mobean	8865844253
Shafiq		Md. Anas	9634773185
Md. Faizan		Salman	7417622719
Shakib	9045844906	Md. Imran	934777175

26 words

6.2

Moradabad

21 / 08 / 2017

Month

August

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Moradabad on 21th August 2017 for State's informal sector.

The Workshop was held at Lovely Marriage hall Moradabad, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. Supported by Mohd. Sabir, Mohd. Nadeem



Trainer expressed following points to the informal sector on E-Waste:

- To create an E-waste collection channelization system.
- Reduce Hazardous substances in Electrical and Electronic components.
- Responsibilities of different stakeholders within the rules of e-waste
- Steps, which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler.

Workshop on Environmental Hazards of E-Waste

Target Audience

Informal Sector

Venue

Lovely Marriage Hall, Bhojpur, Moradabad

Extended Responsibilities to producers to manage a system of E-waste collection/ reverse logistics and channelizing it through a registered dismantler/recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW (Municipal Solid Waste).

Environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

On becoming formal collection partner within the ambit of the rules

The state-of-the-art dismantling and recycling techniques followed globally

Impact on health and environment due to improper disposal/ recycling of e-waste



Objectives

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
 Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
 Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment
 Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
1400-1410	<ul style="list-style-type: none"> • Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) • Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose of e-waste in the formal chain) The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	<ul style="list-style-type: none"> • Participants will get to know the environmental and health hazards of improper recycling of e-waste.
1440-1510	<ul style="list-style-type: none"> • What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components of e-waste) What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	Participants will get to understand the need for formalizing so that their livelihoods are secured the future.
1510-1540	<ul style="list-style-type: none"> • How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorized recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognized) 	Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.
1540 –1610	<ul style="list-style-type: none"> • What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done) 	Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1610–1630	<ul style="list-style-type: none"> • QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	

Food Distribution

Background Work Details

Our representatives left no stone unturned in finding out the location where people from informal sector spend most of their time. They made every possible effort to win over the interest of people for attending the awareness program.

Mohd. Sabir, a social worker provided his full support in mobilizing the target people.

Event Attendees

Scrap Dealers
Electronic Mechanics
Electronic Repair Workers

Challenges

Local Scrap Dealers and unauthorized dealers don't want their workers to get educated as this would hamper their business.

According to dealers of e-waste, if the informal sector gets educated about it they will demand more wages which will in return affect their business/ profits.

People were reluctant to give their names due to the fear of getting arrested for doing illegal e waste business.

Outcomes

Successful session was held.
People understood the harmful effects of the improper e-Waste management.
They agreed to adopt different measures and methods on e-waste management.

Limitations

No motivation was seen from informal sector for attending the event due to lack of interest.
People at ground level are uneducated and they are only concerned about their livelihood.
People were reluctant to attend as it would affect their daily wages.

Support

Need support from local bodies to engage with people from different fields

Permissions to conduct such workshops at public places should be provided.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



The image shows a Facebook post from MAIT (Manufacturers Association Of Information Technology). The post features a green-themed graphic for an "E-WASTE AWARENESS WORKSHOP" held on "21ST August 2017" at the "Venue: Lovely Marriage Hall, Railway Station Road, Bhojpur, Moradabad District." The graphic includes a lightbulb icon with recycling symbols and a small figure. Below the graphic are "Like", "Comment", and "Share" buttons.



The image is a video thumbnail showing a man in a white shirt presenting at a workshop. He is standing in front of a whiteboard and a screen. The room has a green carpet and a pink wall.

Invited	1500
Attended	700
Recorded	564

Detailed list of Attendees

Name	Mobile	Name	Mobile
Ashish	9999877250	Ibabban	9769585836
Syed	9929038910	Rashid Hamza	7351603497
Gajaudin	9937047910	Md. Arif	9410215795
Rafid	9912732516	Yasin	9766935876
Abid		Asif	7830946090
Danish		Wahid	9959085185
Ashish	9968169914	Mansoj	9105285012
Asharma	9770072269	Md. Nozar	7851016407
Nasir	9798745445	Anil	7466008925
Akhtyar	9968169742	Asif	9997758920
Mizan	9939988890	Md. Kamal	9719031110
Md. Muthab	9719663570	Md. Nazir	9639766044
Zahir Ahmed	9720658896	Nadeem	8534035921
Bhura		Nadeem	9875035901
Rozza		Moin	9937467439
Nur Md.	9927357866	Shahed	9927667489
Nasir	9957552340	Ishaqam	9094954304
Rumak Ali	9990166305	Md. Yusuf	
Guldu	7870787626	Arif	9654939894
Nasir	7836889426	Amal Azhar	9720939089
Irfan	8445902206	Jameed	7456985899
Sulaim	7249464781	Arif	8449042890
Md. Afroz	9100581296	Arif	
Noor Hasan		Falzy	9094857341

Md. Arif	9761999916	Md. Rafiq	9993939469
Akbar	9920079990	Ishad	9956986645
Muhtalik	9942900997	Idris	7830612192
Uzma	9988283478	Kamran	
Samirad		Amir	
Foman	9966705499	Sayyidat	9927947064
Bhura	9926934311	Nawab Jaan	
Sanjay	9520151086	Kizamuddin	9756738799
Nabi Hasan	7839851126	Md. TAHIR	9719082786
Irfan	9766900994	Md. Mufteem	9716271246
Sarif Md.	9928744899	Nabi Ahmad	
Mahabub	9474930971	Saraf Ali	
Ashim	7351525391	Bapu	9966068009
Shafiq	8273937985	Md. Omas	9357789112
Nija Muddin	9975921069	Md. Nazim	7090990197
Jaber	9990729646	Nasir	
Mawsoom	7097237728	Mahboob	
Md. Faizan	7465043102	Monim	7096166149
Asim	9937060799	Naseem	9997478007
Burish		Shahin	9917728320
Md. Arif		Ali Hasan	9675548342
Falzy Choudhary	9994957341	Zafakar	9711907747
Md. Nozar	7802642948	Islamuddin	9761706007
Waseem		Anna	
Md. Ashraf		Rizwan	9958824990
Umesh		Laarn	

Rahim Choudhary	9927333331	Md. Islam	
Aslam	9921176811	Md. Nafis	
Md. Wassim		Md. Kayam	
Ajeel	7037804695	Md. Arif	
Md. Akram	7300758404	Danish	
Sulaiman	9761233189	Sehzad	
Purkaar	9968247055	Waseem	
Frasar	8768338566	Mobeem	
Md. Nadeem		Shanadeem	
Md. Fardeen	9912953255	Usman	
Md. Xeehsain	7391330194	Md. Rafi	
Md. Annes	7300358813	Md. Naeem	8273456990
Nabihasan	7085164278	Akshab Hussain	
Md. Riham	8936950860	Brahim Swaroop	
Hasan		Md. Waseem	9720535530
Jameesh	7535964713	Adam	
Anshik	9709390844	Md. Injeb	
Edrish	9990993987	Md. Farman	9756873321
Jabuta	9917511189	Md. Jigar	7055580196
Nadeem		Bahir	
Sharaf Ali		Alam	
Naimuddin	9830808468	Waseem	
Babu Kumar Sahib	9319748160	Islam Nabi	
Md. Wasim	8869839157	Md. Akram	8307810166
Nafis	9758450786	Abdul Rehman	7466037673

Juhad	9956776878	Hashim	
Akbar	9977684854	Furkan	
Gulam Ali	9768360904	Mobeem	
Boadi	7351533315	Anwar Ali	
Choto		Zafar Hussain	9796714419
Ali		Md. Iqbal	
Nafis	7830246224	Yasin Ali	
Md. Numan		Shafiq	9956975770
Naufaan		Md. Sheru	7636083179
Arif		Danish	9912558361
Wahim		Murtoaj	
Akram		Hasan Ali	
Haris Usaf		Kasim	
Kamal		Md. Arslam	
Nadim	8499047799	Md. Mustak	9912891249
Kamil		Md. Alam	7695084172
Umar	9766117867	Yusuf	
Kadir	7866117811	Aseem	
Gudu	8787971786	Saiman	
Wadim		Iqbal	
Arif	9995611777	Yamin	
Chotlu		Ashik	
Yusuf	9957786760	Yunus Khan	
Nadim	9957823311	Irfan	7694846991
Kadim		Chand	
Aam		Fazmi	9912995669
Sayeed		Shahed	
Gajaudin		Mansoor	
Md. Xeehsain		Nurjan	9999991435
Naseem	9912240519	Houshad	
Md. Faizan	9927125892	Muteem	
Md. Aseem	7097141329	Husni	
Yashir		Fanne	
Nehsoob		Furkan	9739845436
Nadim Ali		Yakub	
Md. Eemish	9755169799	Yahumaf	
Md. Rahim	9719236267	Sabir	
Raj	9711387247	Md. Hussain	9756067963
Rizwan	9956136539	Md. Rafi	
Zafar	9937823739	Mudeen	9126142044
Yahu, Shari		Shauq	
Jamua		Saleem	
Md. Yakar	9939166999	Md. Shamsam	9994223222
Rafiq Khan		Majid Ali	

Asan Ali Khan		Annon	
Azim Ali Khan		Ashiq	
Montas		Kadir	
Md. Faraz		Kamran	
Zunam		Falzan	
M. Momir	9720253945	Ali Hassan	9026182049
Md. Akadam	9837237514	Yusuf	
Kasim		Iqbal	
Asrani	9766101172	Yamin	9094286432
Etik		Ali	
Ahamed		Salman	
Usman	9760090561	Summi	
Azif	985096116	Salauddin	9026172433

Aam		Faamli	9012899669
Bayazid		Shakeed	
Gajausdin		Mansad	
Md. Xazaisha		Nurjan	989991435
Nasim	9912240513	Naushad	
Md. Fazan	9827125802	Muhammad	
Md. Assem	7037141920	Husni	
Yasir		Farooq	
Nasir		Furkan	9734045436
Nadeem Ali		Yasir	
Md. Barish	9788166786	Yahumad	
Ms. Rahim	9716235267	Sabir	
Raj	9711337247	Md. Hussain	9756087963
Rizwan	9958136659	Md. Razi	
Zakir	9837837739	Muhammad	9126142044
Yafis, Shari		Shamir	
Jurais		Saleem	
Md. Yaker	9839458888	Md. Shamsam	9094222222
Rafiq Ali Khan		Majid Ali	

Amjad		Azmat	9827160061
Amjad Khan		Azif	9761242829
Saleem		Saleem	
Md. Samin		Qasim	
Anuran		Rifan	
Shahid Nawab		Gulzar	
Zaid Khan	9094429843	Atam	9830429968
Shahid	9026162919	Abdullah	
Yunus	9094222222	Amir	8449819294
Irfan		Naveed	
Ibrahim	9126143044	Javed	
Muhammad	9099944999	Iqbal	9866289239
Laili		Yakub	
Ibrahim	9899234441	Muhammad	9759888897
Wasim	7055926651	Zafir	9410209234
Shahid		Hussain	
Salam		Falzan	
Amir	9759888897	Zeenah	
Hussain		Yasir	9897249287
Amir	9412015766	Husman	
Jehar	7351503497	Kamir	9012395924
Kamran		Tohid	
Amir		Rahid	
Razi	9678961011	Akbar	
Rahim	9769541520	Mansaf	7391692384
Muhammad	9859401100	Kadir	9720993624
Asif	9896141661	Safwanj	
Abdulrahman		Muhammad	
Rizwan	7864117670	Javed	9823423618
Shazaad		Salman	
Akram	9864117670	Husni	
Ahmed		Md. Alam	

Zahir	9793101166	Zakir Hussain	9837246264
Taufiq	9837881614	Muhammad	
Jafar	9739894041	Zarib	
Fakir	9720020014	Akbar	
Md. Faraz	9716421654	Usman	
Jawad		Rahid	
Fahid		Hamid	
Ahmed		Sabir	982396577
Kamran	9451123146	Muhammad	
Baru		Muhammad	
Kazim		Muhammad	983166959
Jihan	9861664166	Tara	
Qadir	9454166660	Hani	
Baru		Usman	987896577
Majid		Akram	
Fara	9794601413	Kamran	
Jawad		Yogesh	
Asif		Monik	84490477880
Noor Ali	983988416	Taqub	
Fawaz	9893786161	Yamin	
Muhammad		Ahmed	7630046224
Zameer		Sohail	
Jawad	789916486	Jafaruddin	9797971177
Rashid	9876419456	Muhammad	
Jafar		Nasir	
Rafa	9870416466	Farman	976096211
Omair		Samir	
Zakir		Nasir	
Abdul Kadir	9899889904	Sanjay Khan	9830600118
Md. Shahid	9756635374	Muhammad	
Hafiz Ali	9823975786	Aarif	
Md. Tasleem	9729998806	Nizamuddin	9768101122

Nasir	9012691317	Gurukul	
Dilshad	9764629123	Zahir	
Jabar	9720778439	Ahmed	926890004
Md. Mustafa	9830941617	Md. Rifan	9780344099
Md. Nazim	9719993766	Shamir Ali	
Md. Rizwan	9758465786	Nadim	9801133426
Md. Aslam	9828293646	Babar Khan	7055926651
Kadir		Kamir	
Qiyasuddin	9823454389	Shamir	
Md. Fahim		Jabar	9052894307
Islam	7391458207	Akram	7568112562
Fahim		Wasim	
Mohid		Rajneel	
Karim Babu	9837202912	Ross	7876711266
Muhammad Ali		Kabir	8449807766
Yamin	9761468455	Gajuddin	8937047519
Ayub	9012363836	RASHID	9012722818
Nawab Isam	9827241663	Abid	9012732836
Shahid	8126785372	Darish	
Kamran	9781161554	Aam	
Usman		Akram	9558189914
Priam Singh		Nasir	9770072269
Husni Hussain		Akbar	9868189742
Farooq	9427136532	Hassan	9899999663
Shifa Hussain	8446594645	Mohd. Matlib	9716673823
Muhammad	9720735116	Zahir Ahmed	9720665786
Nasir		Shamir	
Shahid Ahmed	7055328551	Rasat	
Shahid		Mohd. Noor	9837367663
Nasir		Nasir	9867862340
Zaffar	9834258887	Rusik Ali	9890166305
Shamir	9868807060	Gurukul	7075761626

07

Panjim

31/ 05/ 2017

Month

May

Workshop on Environmental Hazards of E-Waste

Target Audience

Informal Sector

Venue

Goa Chamber of Commerce, Goa

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized a Workshop on Environmental Hazards of E-Waste in Goa on 31st May 2017 for State's Informal Sector in collaboration with Goa Chamber of Commerce and Industry, STARTUPGOA and GoaCAN.

The Workshop was held at Goa Chamber of Commerce, wherein eminent speakers addressed the audience viz. Shri Manoj Patil, Chairman-Trade & Commerce, GCCI, Shri Ronald Martins, GoaCAN and Shri Gautam Mehra, Consultant, MAIT. The dealers of electronic products and electronic garbage collectors from the informal sector also attended the session.



The key aspects of e-Waste management and the E-waste Management Rules 2017 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

MAIT has recommended that Goa implements the regulations and guidelines regarding e-Waste while improving the existing informal collection system for e-waste. MAIT also said that there is an imminent need for authorized e-Waste collection centres and recycling units.

It was also emphasized that there is a need to introduce the buy-back system where customers would be imparted with knowledge on e-Waste issue and encouraged to give back their obsolete personal computers. This system would collect large amount of obsolete computers and improve existing informal collection system.

E-waste accounts for 40% of the lead contamination in land fill sites and yet 95% of our e-waste is recycled by the informal sector. The e-waste generated in the coming years would be considerably greater due to increased penetration of electronic and electric appliances in urban households coupled with higher rate of obsolescence, said consultant for MAIT, Mr Gautam Mehra, while addressing industrialists and civic body officials.

According to the Goa State Pollution Control Board, e-Waste in Goa has increased by 58.16% over a two-year period from 2014. The annual report for e-Waste for 2015-16 showed that 1,41,205 kilos of e-Waste was generated. The number stood at 89,266 kilos in 2014-15.

E-waste management in the State of Goa as well as in other states across India is a highly fragmented business. Furthermore, Goa does not have any recycling facility to deal with e-Waste and most of the times, non-functional computer scrap parts/e-waste is disposed with municipal solid waste by scrap dealers which increases the risk of landfill site contamination.

Awareness Workshop for Manufacturers on Environmental Hazards of e-Waste

31st May 2017: Goa Chamber of Commerce, Panaji, Goa

Objectives

At the end of the workshop, participants will be able to:

- Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
- Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
- Assist in implementation of the EPR plans for their respective organisations
- Assist in training of staff working at shop floor different topics covered in the workshop

Session timing	Session topic	Objective of coverage of topic
0915 -0945	<ul style="list-style-type: none"> • Registration 	
0915 -0945	<ul style="list-style-type: none"> • Inauguration 	
1000-1015	<ul style="list-style-type: none"> • Introduction of participants (20 seconds for each participant) • Introduction of the project (5 minutes by the person who is conducting the workshop) • Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	Participants get to know each other and the topics which will be covered in the sessions during the entire day. Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
1015-1045	<ul style="list-style-type: none"> • What is e-waste? (5 minutes, which will cover the definition within the rules and the introduction of schedule I within the rules) • Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) • Responsibility of the manufacturers within the ambit of the rules (10 minutes, Introduction to the guidelines laid in the rules, Responsibility of manufacturers as stated in the guidelines to the rules) • Introduction to Extended Producer Responsibility within the ambit of the rules (10 minutes, explaining how the EPR can be implemented, what are the avenues which are defined within the rules, what is the time period for implementation of EPR) 	Participants will get to understand the requirement which manufacturers have to fulfil within the rules and the guidelines which have been stated for implementation. Understanding EPR in the Indian context and its implementation mechanism)
1045-1100	TEA BREAK	

Session timing	Session topic	Objective of coverage of topic
1100 – 1130 hrs.	<ul style="list-style-type: none"> • How can you prepare an EPR plan for your organisation? (15 minutes, methodologies as allowed within the guidelines to the rules) • How can you finance EPR in the Indian context? (30 minutes, EPR financing models available, EPR financing in the global context, Case studies) 	<p>Participants get to understand in detail how EPR can be implemented and financed within the ambit of the guidelines to the e-waste rules</p>
1130 – 1200	<ul style="list-style-type: none"> • How can you set up a PRO for collecting e-waste and implement the rules? (10 minutes, detailing the process of setting up a PRO, the managing of a PRO and collection channels) • How can you set up a collection center for e-waste? (5 minutes, process of setting up a collection center for e-waste) • How can you work with the informal sector for e-waste collection? (15 minutes, examples and case studies of documented model of formal and informal partnerships on e-waste collection within India and select countries) 	<p>Participants get to understand in detail how collection channels can be set up for e-waste collection and targets can be met while working with different stakeholders</p>
1200 – 1230	<ul style="list-style-type: none"> • What are the labelling mechanisms for electronics? (10 minutes, bar coding for electronics, data matrix code, BIS code) • Introduction to eco labelling for electronics (5 minutes, 2 case studies from Europe) • Sustainable Consumption and Production (15 minutes, Introduction to circular economy, resource consumption, use of secondary resources) 	<p>Participants get to know about labelling mechanism and use of resources in a sustainable manner</p>
1230 – 1300	<ul style="list-style-type: none"> • Health and environment hazards of improper handling of e-waste (15 minutes, composition of e-waste, hazardous elements, environmental and health hazards of materials) • RoHS compliance (5 minutes, hazardous elements, RoHS guidelines within the rules, compliance mechanism) • Managing health and safety standards at workplace (10 minutes, health and safety standards which need to be maintained at workplace, personal protective equipment and its uses) 	<p>Participants get to understand the environmental and health hazards of improper handling of e-waste, the precautions which they need to take at the shop floor to avoid accidents</p>
1300 – 1330	<ul style="list-style-type: none"> • Building blocks to an internal policy on e-waste (10 minutes, key tenets to an internal policy on e-waste, messaging to employees and workers at shop floor, managing equipment and guidelines) • Creating awareness on e-waste (10 minutes, showcasing awareness material as prepared in the project, films and radio jingles, responsibility as stated within the rules) workplace, personal protective equipment and its uses) 	<p>Participants get to know how to build an internal policy on e-waste management within the office and the organisation at large and also how to create awareness with different sets of stakeholders</p>

Session timing	Session topic	Objective of coverage of topic
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1330 -1400 QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS

1400 onwards LUNCH

Attendees

Total number of Invites sent – 500, Total number of attendees – 21, Manufacturers/Producers -13List

Sl. No.	Name	Designation	Organisation	City	Mob.	Email
1.	Abhinav Apte	GM-SWMC	Department of S & T	Goa	7767812921	swmcell.goa@gmail.com
2.	Keshar G Naik	SO-SWMC	Department of S & T	Goa	7767812923	swmcell.goa@gmail.com
3.	Vibha G Shetgaonkar	TA-H	ITG	Goa	9823509291	vshetgaonkar68@gmail.com
4.	Ajit Naik	Executive	Optel Vision	Goa	9049080190	ajit.naik@optelgroup.com
5.	Mahesh Tari	IT Officer	TTPL	Goa	9764466497	mahesht@titengoa.co.in
6.	Sandhesh Mishal	Admin. Executive	TCS	Goa	9422065056	sandesh.mishal@tcs.com
7.	Pritish A S Karapurkar	Consultant	TCS	Goa	9422442103	prish.karapurkar@tcs.com
8.	Dominic Fernandes	OSD - SWMC	Department of S & T	Goa	9822157775	dominicorn@gmail.com
9.	Ashley	EM	GSPCB	Goa	8390908337	ashley@gspcb.in
10.	S Shetye	Supplies Inspector	Department of Civil Supplies	Goa	9890033210	sshetyeoz@gmail.com
11.	Rex Fernandes			Goa	9324549215	rex-fernandes@rediffmail.com
12.	Anthony Fernandes			Goa	9422450264	goantonio@yahoo.com
13.	Angleo D'Souza	Director	Asic Technologies	Goa	9422442565	asictechnologies@gmail.com
14.	Vinay Verma		PowerTech Corporation	Goa	9823186551	er_vinay@hotmail.com
15.	Prasad Patil	Director	Krona Systems	Goa	9326107672	krona@rediffmail.com
16.	Vinayak Nayak		Delta Technologies	Goa	888886235	vinayak@deltagoa.com
17.	Rajesh Kamat	Director	RGB Infotech	Goa	9421517585	rrkamat@rgbgoa.com
18.	Shri Vallabh	Director	Comtech System	Goa	9850292389	comtechgoa@gmail.com
19.	Aref Sheikh		Proimaging Tech	Goa	9822124781	protechgoa@gmail.com
20.	Fakir Sab	Proprietor	Seastar Enterprises	Goa	9325637497	seastarenterprises06@gmail.com
21.	Sanjay Shirodkar		Seastar Enterprises	Goa	9370180355	shirodkar64@gmail.com

Media Coverage List

Goacom.com - Goa witnesses 58% rise in e-waste in just two years Navhind

Times - The Ctrl-Alt-Del on e-waste in Goa Indiatimes.com - Goa witnesses

58% rise in e-waste in just two years Chronicle - Goa Does Not Have Any

Recycling Facility To Deal With E-Waste”

NDTV.com - Goa's Lack Of E-Waste Recycling Facility May Contaminate Landfill Site: IT

Company Business Standard - 'Goa doesn't have a e-waste recycle facility'

Daijiworld.com - 'Goa doesn't have a e-waste recycle facility' Sify.com

- 'Goa doesn't have a e-waste recycle facility' Suryaa.com - GOA

DOESN'T HAVE A E-WASTE RECYCLE FACILITY' Andhravilas.net -

'Goa doesn't have a e-waste recycle facility'

Social media platform including Facebook, LinkedIn and Twitter was also utilized to mobilize participation in the workshop

Background Work Details

To organize the workshop for the manufacturers we undertook a number of initiatives including meeting several government departments and industry associations to mobilize participation in the workshop.

S. No.	Contact Person	Designation	Name of Organisation	Met on (Date)	Contact No.	e-Mail
1	Mr. Dominic Fernandes	OSD SWM, DST SWM, Dept. of Science & Technology		11 May	9822157775	dominicfer@gmail.com
2	Mr. Nilesh Desai	MD	GOA Infotech Limited	11 May	9850409579	md-itg.goa@nic.in
3	Mr. Abhinav Apte	SWM Cell DST	DST	11 May	7767812921	swmcell.goa@gmail.com
4	Sachin Ambe	Head Waste Man	Municipal Corporation	11 May	9423587478	office@ccpgoa.com
5	Mr. Mohan Girap	Scientist	GPCB	11 May	9422451650	
6	Mr. Roland Martin		GOACAN	11 May	9822180182	goacan@gmail.com
7	Mr. Nagraj Prabhudesai	President	GOA IT Business Association	11 May	9822185856	nagraj@yashitsolution.in
8	Mr. RS Kamat	DG	GCCI	11 May	9823166955	dg@goachamber.org

Challenges

Unavailability of Manufacturers.

Less interest of State Govt. Departments due to their existing work.

Unavailability of Govt. official on the date after their commitment.

Opportunity

Govt. is interested to work more over e-Waste and this can be an opportunity for us to achieve the target.

07.1

Panjim

31/ 05/ 2017

Month

May

Workshop on Environmental Hazards of E-Waste

Target Audience

Informal Sector

Venue

Goa Chamber of Commerce, Goa

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized a Workshop on Environmental Hazards of E-Waste in Goa on 31st May 2017 for State's Informal Sector in collaboration with Goa Chamber of Commerce and Industry, STARTUPGOA and GoaCAN.

The Workshop was held at Goa Chamber of Commerce, wherein eminent speakers addressed the audience viz. Shri Manoj Patil, Chairman-Trade & Commerce, GCCI, Shri Ronald Martins, GoaCAN and Shri Gautam Mehra, Consultant, MAIT. The dealers of electronic products and electronic garbage collectors from the informal sector also attended the session.



The main aim of the Workshop was to raise awareness across various levels of society to reduce the adverse impact of e-Waste on environment and health arising out of the polluting technologies used in recycling in the unorganized sector.

According to the Goa State Pollution Control Board, e-Waste in Goa has increased by 58.16% over a two-year period from 2014. The annual report for e Waste for 2015-16 showed that 1,41,205 kilos of e-Waste was generated. The number stood at 89,266 kilos in 2014-15.

E-waste management in the State of Goa as well as in other states across India is a highly fragmented business. Furthermore, Goa does not have any recycling facility to deal with e-Waste and most of the times, non-functional computer scrap parts/e-waste is disposed with municipal solid waste by scrap dealers which increases the risk of landfill site contamination.

The key aspects of e-Waste management and the E-waste Management Rules 2016 were highlighted in the Workshop. The Speakers at the Workshop expressed in detail to the Informal Sector on the:

Responsibilities of different stakeholders within the Rules who are disposers of e-Waste

The role which the informal sector can play within the Rules

What are the environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

What are the overall health and environmental hazards of improper recycling of e-Waste

How can they become a formal collection partner within the ambit of the Rules

What are the steps which one needs to take when handling e-Waste that is collected and has to be sent across to an authorised recycler.

What are the state-of-the-art dismantling and recycling techniques in the country and around the world.

Awareness Workshop for Informal Sector on Environmental Hazards of e-Waste 31st May 2017: Goa Chamber of Commerce, Panaji, Goa

Objectives

At the end of the workshop, participants will be able to:

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts

Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities

Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment

Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
1630 – 1700 hrs.	Registration	
1700 - 1715 hrs.	Inauguration	
1715 -1730 hrs.	<ul style="list-style-type: none"> - Introduction of participants (20 seconds for each participant) - Introduction of the project (5 minutes by the person who is conducting the workshop) - Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	<p><i>Participants get to know each other and the topics which will be covered in the sessions during the entire day. Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same</i></p>
1730 – 1800 hrs.	<ul style="list-style-type: none"> - Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) - Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose off e-waste in the formal chain) - The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	<p><i>Participants will get to understand the need for formalising so that their livelihoods are secured in the future.)</i></p>
1800 – 1815 hrs.	TEA BREAK	

1815 – 1845 hrs.	<ul style="list-style-type: none"> - What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) - What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	<p><i>Participants will get to know the environmental and health hazards of improper recycling of e-waste</i></p>
1845 – 1915 hrs.	<ul style="list-style-type: none"> - How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) - What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorised recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognised) 	<p><i>Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.</i></p>

1915 – 1945 hrs.	<ul style="list-style-type: none"> What are the state of the art (smelting and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done) 	Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1945 – 2015 hrs.	<ul style="list-style-type: none"> Case studies on formalisation of Informal sector actors in the country (30 minutes, talking and presenting different case studies of how informal sector actors have formalised and are reaping the benefits of formalisation) 	Participants will get real life examples of informal sector actors who have formalised and are working within the rules
2015 – 2045 hrs.	QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS	
2045 hrs. onwards	Dinner	

Attendees List

Total number of invites sent – 550, Total number of attendees – 56, Informal Sector Workers - 6

S.No.	Name	Designation	Organisation	City	Mob.	Email
1	Surendra Gaonkar	IT Manager	Delfin	Goa	8414982188	surendragaonkar@delfin.com
2	Mona Patil		Amar	Goa	9823013727	
3	Jaikumar K Naik	ST	UHC Margao	Goa	9850463859	
4	Alex Soos	ST	PHC Bekki	Goa	9422454712	
5	Ashok Hansral	I Trading	Global Green	Goa	8898886680	kesan.a@gmail.com
6	Prasanna Kumar Sambolikar	LDC	Civil Supplies & CA	Goa	9823615507	rdi-cssu.goa@nic.in
7	P.R.Bandekar	SI	CHC, Panjim	Goa	9823883315	
8	Manoj R Choni	SI	CHC, Panjim	Goa	8803496332	manojchoni@gmail.com
9	Narain K	Proprietor	Digital Earth	Goa	9962230891	digitalearthoffice@gmail.com
10	Subhash G Mahalekar	ME, Gr-II	Ponda Municipal Council	Goa	8308600434	subhashmahalekar@gmail.com
11	Avinash T Kalekar	Municipal Inspector	Ponda Municipal Council	Goa	8308600448	
12	Loena Fernandes	Sec.	GoaCAN	Goa	901664429	goacan@gmail.com
13	Chandu V K			Goa	9860096958	
14	Jaideep J Naik	Jr. Engineer	Mapusa Municipal	Goa	9822414916	jaideepnaik05@gmail.com
15	Manoj Naik	SI	PHC Ponda	Goa	9822129716	
16	Danu Naik	SI	PHC Shironda	Goa	9226492208	
17	Mackly A	SI	UHC Panaji	Goa	9420696018	
18	Shrikant Lawande	Jr. Engineer	GOP Panaji	Goa	9493697475	
19	Shriash Kunkolienkar	U.J	Prodent	Goa	8807274950	
20	G Jacques	Community Organizer	GOP Panaji	Goa	9850481761	
21	Mihir K	SI	MMC Vasco	Goa	9823613738	
22	S V Kodhekar	ME Gr III	MMC Vasco	Goa	9822036181	
23	Capt. V S Mehta	Managing Director	Sea Seer Marine	Goa	9822070348	
24	R.G.Patil	Health Educator	UHC Panaji	Goa	9881511544	
25	Melaine Rodrigues		GCCI	Goa	9823372774	ww@goodmember.org
26	Nanda Prasusale	SI	PHC Aldona	Goa	9822483969	nandaprasusale@gmail.com
27	Chetan R.Jali	Jr. Manager	Shreejai Enterprises	Goa	9823831310	shreejai-ent@gmail.com
28	Dayanand Thakkar	SI	UHC Vasco	Goa	9270045564	
29	Jaydeo Bhagat	SI	PHC	Goa	9823463227	
30	Sunil S		Laradid	Goa	9822130455	laradid@rediffmail.com
31	Joe D'Souza	Consultant		Goa	9822127702	
32	Louella S Vaz	Sanitary Officer	PHC Lotolim	Goa	8805403588	louellasvaz@gmail.com
33	Milind Prabhu	CEO	GENORA	Goa	9762337589	milind.prabhu@genora.co.in
34	Sobhan Prabhu	Proprietor	Global E-Waste Systems Mgmt.	Goa	7038273910	prabhu.sobhan@gmail.com
35	Rashmi Kerkani	Scientific Adm. Officer	Goa State Biodiversity	Goa	7758814608	goabiodiversity@gmail.com
36	Peter Alvares	SI	PHC	Goa	9070093063	
37	Timothy Lobo	Retired		Goa	0832-2422063	
38	J Pereira	CEO	GEMS	Goa	9850175778	ceo_gems@gmail.com
39	Satish Vaid	CEO		Goa	9588497975	
40	Eba Fernandes	HOD-Computer	EPP	Goa	9822140241	
41	Pranay S Naik	SI		Goa	7086888853	
42	Varadach P Naik	SI		Goa	9823963385	

43	Gajanan Naik	S.I		Goa	9922542512	
44	Tulides Naik	S.I		Goa	9158905952	
45	Rajesh P Fodde	Engineer	SMC	Goa	9423014259	
46	Basappa Mosman	AMI	SMC	Goa	9891663994	
47	Narayan P		SMC	Goa	9423083428	
48	Rajesh Kewat	Owner	SME	Goa	9404757212	
49	Ashok Kashyap	Manager	SME	Goa	9159029059	
50	Sagar Mare	Jr Engineer	Margao Municipal Council	Goa	7030910932	
51	Sarajy Sarajyket	S.I	MNC Mangon	Goa	7030910940	
52	Joseph Sienara	Field Jr Officer	Ex. DMC Parlim	Goa	9765509939	
53	A/M Pinto	UDC	WRD	Goa	9404403305	
54	Codi P	Service		Goa	9324526211	
55	Sanil Dossa		CCMC	Goa	7798882757	
56	Dhira Senaut		CCMC	Goa	7798882746	

Media Coverage List

Goacom.com

Navhind Times - The Ctrl-Alt-Del on e-waste in Goa

Indiatimes.com - Goa witnesses 58% rise in e-waste in just two years

Chronicler - Goa Does Not Have Any Recycling Facility To Deal With E-Waste"

NDTV.com - Goa's Lack Of E-Waste Recycling Facility May Contaminate Landfill Site: IT Company

Business Standard - 'Goa doesn't have a e-waste recycle facility'

Daijiworld.com - 'Goa doesn't have a e-waste recycle facility'

Sify.com - 'Goa doesn't have a e-waste recycle facility'

Suryaa.com – Goa Doesn't have E-waste Recycle Facility'

Andhravilas.net - 'Goa doesn't have a e-waste recycle facility'

Background Work Details

To organize the workshop for the manufacturers we undertook a number of initiatives including meeting several government departments and industry associations to mobilize participation in the workshop.

S. No.	Contact Person	Designation	Name of Organisation	Met on (Date)	Contact No.	e-Mail
1	Mr. Dominic Fernandes	OSD SWM, DST SWM, Dept. of Science & Technology		11 May	9822157775	dominicfern@gmail.com
2	Mr. Nilesh Desai	MD	GOA Infotech Limited	11 May	9850409579	md-itg.goa@nic.in
3	Mr. Abhinav Apte	SWM Cell DST	DST	11 May	7767812921	swmcell.goa@gmail.com
4	Sachin Ambe	Head Waste Man	Municipal Corporation	11 May	9423587478	office@ccpgoa.com
5	Mr. Mohan Girap	Scientist	GPCB	11 May	9422451650	
6	Mr. Roland Martin		GOACAN	11 May	9822180182	goacan@gmail.com
7	Mr. Nagraj Prabhudesai	President	GOA IT Business Association	11 May	9822185856	nagraj@yashitsolution.in
8	Mr. RS Kamat	DG	GCCI	11 May	9823166955	dg@goachamber.org

Challenges

Bringing Informal Sector without help of Local NGOs
Govt. has not worked for Informal sector regarding e-Waste awareness sofar.
Convincing Informal Sector for what purpose they are coming in the event.
Mostly big junk dealers are located out of Goa as Margaon, Vasco etc.

Opportunity

Goa is actively working for waste management but not specifically for e-Waste.
Goa is very interested to work more over e-Waste which can help us to reach to our target.

07.2

Workshop on Environmental Hazards of E-Waste

Target Audience

Manufacturers

Venue

Institute Menezes Braganza,
Police head Quarters, Panjim

Panjim

27 / 07/ 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Indore on 27th July 2017 for State's IT/ Electronic Item manufacturers .

The Workshop was held at Institute Menezes Braganza, Panjim Shri Gautam Mehra, Consultant, MAIT conducted the Training Session on the occasion. The manufacturers of electronic products were invited to attend the workshop.



Objective

The key aspects of e-Waste management and the E-waste Management Rules 2017 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

Background Work Details

Invitation sent to all concerned person and manufacturers

Outcomes

No one attend the workshop due to heavy rains.

Challenges

Unfavourable climatic conditions and heavy rains caused problem for people to commute.
Neither NGOs nor any local bodies provided their support.

Learnings

Event location should be kept where these people are residing in large numbers so that commuting problem doesn't persist.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Invited	20
Attended	0

7.3

Panjim

27 / 07 / 2017

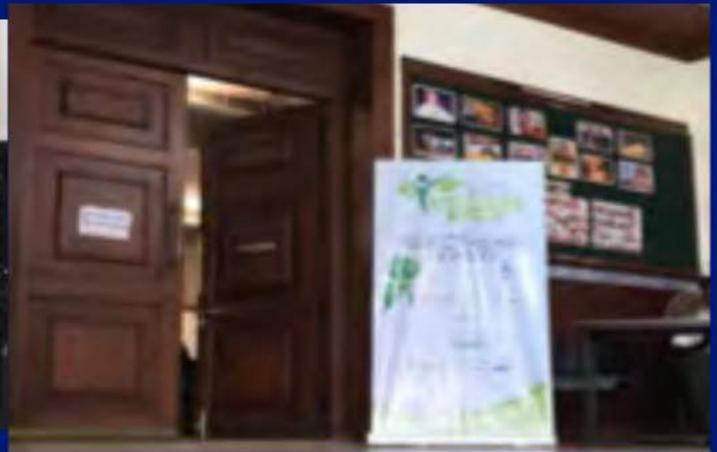
Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Indore on 27th July 2017 for State's informal sector.

The Workshop was held at Institute Menezes Braganza, Panjim Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event electronic garbage collectors from the informal sector invited to attend the session.



Objective

The main objective of the Workshop was to raise awareness across various levels of society to reduce the adverse impact of e-Waste on environment and health arising out of the polluting technologies used in recycling in the unorganized sector

Background Work Details

Went to the places where informal sector were located and educated them about the event and its importance.

Outcomes

No one attend the workshop due to heavy rains.

Challenges

Unfavourable climatic conditions and heavy rains caused problem for people to commute.
Neither NGOs nor any local bodies provided their support.

Workshop on Environmental Hazards of E-Waste for Informal Sector

Target Audience

Informal Sector

Venue

Institute Menezes Braganza,
Police head Quarters, Panjim

08

Patna

21 / 06 / 2017

Month

June

Event Report

Event Report - Workshop for awareness on the hazards of e-waste

Target Audience

Informal Sector

Venue

Bihar Industries Association, Patna

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Patna on 21st June 2017 for State's informal sector.

The Workshop was held at Bihar Industries Association, wherein Shri I N Jha, Managing Director, Institute of Environment & Eco Development (IEED) shared his perspective with the audience. Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The dealers of electronic products and electronic garbage collectors from the informal



The main aim of the Workshop was to raise awareness across various levels of society to reduce the adverse impact of e-Waste on environment and health arising out of the polluting technologies used in recycling in the unorganized sector.

The key aspects of e-Waste management and the E-waste Management Rules 2016 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

The Speakers at the Workshop expressed in detail to the Informal Sector

Responsibilities of different stakeholders within the rules who are disposers of e-waste

The role which the informal sector can play within the rules

What are the environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

What are the overall health and environmental hazards of improper recycling of e-waste

How can they become a formal collection partner within the ambit of the rules

What are the steps which one needs to take when handling e-Waste that is collected and has to be sent across to an authorised recycler.

What are the state-of-the-art dismantling and recycling techniques in the country and around the world.

Awareness Workshop for Informal Sector on Environmental Hazards of e-Waste 21st June 2017: Bihar Industries Association, Patna

Objectives

At the end of the workshop, participants will be able to:

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts

Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities

Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment

Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Session timing	Session topic	Objective of coverage of topic
1630 – 1700 hrs.	Registration	
1700 - 1715 hrs.	Inauguration	
1715 -1730 hrs.	<ul style="list-style-type: none"> - Introduction of participants (20 seconds for each participant) - Introduction of the project (5 minutes by the person who is conducting the workshop) - Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	<i>Participants get to know each other and the topics which will be covered in the sessions during the entire day. Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same</i>
1730 – 1800 hrs.	<ul style="list-style-type: none"> - Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) - Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose off e-waste in the formal chain) - The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	<i>Participants will get to understand the need for formalising so that their livelihoods are secured in the future.)</i>
1800 – 1815 hrs.	TEA BREAK	
1815 – 1845 hrs.	<ul style="list-style-type: none"> - What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) - What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	<i>Participants will get to know the environmental and health hazards of improper recycling of e-waste</i>
1845 – 1915 hrs.	<ul style="list-style-type: none"> - How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) - What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorised recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognised) 	<i>Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.</i>
1945 – 2015 hrs.	<ul style="list-style-type: none"> - Case studies on formalisation of informal sector actors in the country (30 minutes, talking and presenting different case studies of how informal sector actors have formalised and are reaping the benefits if formalisation) 	<i>Participants will get real life examples of informal sector actors who have formalised and are working within the rules</i>
2015 – 2045 hrs.	QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS	
2045 hrs. onwards	Dinner	

Sl. No.	Name	Designation	Organisation	City	Mob.
1	Mr Vijay Kumar			Patna	9386156323
2	Mr Pankaj Kumar			Patna	
3	Md. Shamsad Alam			Patna	
4	Md. Hussain			Patna	9934466830
5	Md. Mansur Alam			Patna	
6	Mr Dinesh Jee			Patna	
7	Mr Alok Vishkarma			Patna	
8	Mr Randhir Kumar			Patna	
9	Mr Hunstar Ahmad			Patna	
10	Mr Meraj Alam			Patna	
11	Mr Badrudin			Patna	9308248259
12	Mr Kukla Baben			Patna	
13	Mr Lalu Prasad			Patna	
14	Mr Suraj			Patna	
15	Mr Sanjay Mishra			Patna	9431442724
16	Mr Surendra Mistri			Patna	
17	Mr Tinku			Patna	9939043963
18	Md. Asraf			Patna	9934002261
19	Md. Najeem			Patna	7654412766
20	Md. Manzar Alam			Patna	9835481252
21	Md. Sakil			Patna	
22	Md. Rustam			Patna	9006447940
23	Md. Taifum			Patna	9934806608
24	Md. Akhtar Alam			Patna	7277933948
25	Md. Wasim			Patna	9835209600
26	Mr Munna			Patna	9431882588
27	Mr Rajesh Kumar			Patna	9006622515
28	Md. Jahid			Patna	
29	Mr Jha Jee			Patna	9934026186
30	Mr Raju Paswan			Patna	8809432651
31	Mr Nitesh Kumar			Patna	8809432651
32	Mr Munna			Patna	9334489988
33	Mr Manoj Paswan			Patna	
34	Mr Jafar Ali			Patna	9771539875
35	Mr Dharmendra Kumar			Patna	
36	Mr Madan Singh			Patna	

37	Mr Arvind		Patna	
38	Mr Sanjeet		Patna	
39	Mr Manish Kumar		Patna	9304096184
40	Mr Arvind Jee		Patna	
41	Mr Kapoor Jee		Patna	
42	Mr Vishal Kumar		Patna	
43	Mr Bishwajeet Singh		Patna	
44	Mr Hare Krishna		Patna	
45	Mr Vishwa		Patna	
46	Mr Nakul		Patna	
47	Mr Sanjay Kumar		Patna	
48	Mr Ravindra		Patna	
49	Mr Rakesh		Patna	
50	Md. Asif		Patna	9708392746
51	Md. Vilash		Patna	9934578786
52	Md. Mauddin		Patna	9708123491
53	Mr Suresh		Patna	
54	Mr Rajendra Prasad		Patna	
55	Mr Mithlesh Rajak		Patna	
56	Mr Jogindar Prasad		Patna	
57	Mr Kamlesh Das		Patna	
58	Mr Ramesh		Patna	
59	Mr Satrudhan Kumar		Patna	
60	Mr Kashi Prasad		Patna	
61	Mr Raj Kumar		Patna	
62	Mr Rajeev Prasad		Patna	
63	Mr Guddu Prasad		Patna	
64	Mr Arun Thakur		Patna	
65	Mr Gulam Ratan		Patna	9572581786
66	Mr Ahmad Ali		Patna	9973154223
67	Mr Pappu		Patna	
68	Mr Nauksad Alam		Patna	
69	Mr Nasir Ali		Patna	
70	Mr K Hasan		Patna	9572992844
71	Md. Jamil		Patna	8434226786
72	Mr Nasim Ali		Patna	9934415997
73	Mr Maksud Alam		Patna	
74	Mr Salman		Patna	

75	Mr <u>Ashan Khan</u>		Patna	
76	Md. <u>Azahar</u>		Patna	
77	Mr <u>Sunil Kumar</u>		Patna	
78	Mr <u>Rahmad Ali</u>		Patna	
79	Md. <u>Akbar</u>		Patna	
80	Mr <u>Saket Aslam</u>		Patna	
81	Md <u>Kalam</u>		Patna	
82	Mr <u>Nurul Haque</u>		Patna	
83	Md <u>Kalam</u>		Patna	
84	Mr <u>Ajay</u>		Patna	
85	Mr <u>Rakesh Kumar</u>		Patna	
86	Mr <u>Sudhanya</u>		Patna	
87	Mr <u>S Mishra</u>		Patna	
88	Ms <u>Sikha Manjhi</u>		Patna	
89	Mr <u>Anil Kumar</u>		Patna	
90	Mr <u>Ranjeet Kumar</u>		Patna	
91	Mr <u>Adesh Kumar</u>		Patna	
92	Mr <u>Pintu</u>		Patna	
93	Mr <u>Vishwajeet Singh</u>		Patna	
94	Mr <u>Rajet</u>		Patna	
95	Mr <u>Adhvesh</u>		Patna	
96	Mr <u>Kamlesh</u>		Patna	
97	Mr <u>Jai Prakash</u>		Patna	
98	Mr <u>Jagnarayan</u>		Patna	
99	Mr <u>Nagendra Kumar</u>		Patna	
100	Mr <u>Nishant Ikka</u>		Patna	
101	Mr <u>Rajshekar</u>		Patna	
102	Mr <u>Anil Kumar</u>		Patna	8434942928
103	Mr <u>Binay Singh</u>		Patna	
104	Mr <u>Suraj Kumar</u>		Patna	
105	Mr <u>Sumer Manjhi</u>		Patna	
106	Mr <u>Janaradhan</u>		Patna	
107	Mr <u>Kailas Kumar</u>		Patna	
108	Mr <u>Sanjeev</u>		Patna	
109	Ms <u>Bindu</u>		Patna	
110	Mr <u>Bablu</u>		Patna	
111	Mr <u>Manesh Kumar</u>		Patna	8935873268
112	Mr <u>Deepak Kumar</u>		Patna	

113	Mr Nitish Kumar			Patna	8434548474
114	Mr Subham Kumar			Patna	7277121710
115	Mr Raj Jee			Patna	
116	Mr Radhe Sarkar			Patna	
117	Mr Uday Prakash			Patna	
118	Mr Suresh Kumar			Patna	
119	Mr Sunil Kumar			Patna	
120	Mr Amit Kumar			Patna	9693145046
121	Mr Anand Kumar			Patna	
122	Mr Rohit Das			Patna	
123	Mr Sohan Kumar			Patna	
124	Mr Rajeev Singh			Patna	
125	Mr Amzesh Kumar			Patna	
126	Mr Rohan Thakur			Patna	
127	Mr Sanjeev Singh			Patna	
128	Mr Aman Kumar			Patna	9122008944
129	Mr Kunal Kumar			Patna	
130	Mr Sanjeet Kumar			Patna	
131	Mr Rakesh			Patna	
132	Mr Vikesh			Patna	8873041028
133	Mr Mantosh Kumar			Patna	
134	Mr Girija			Patna	7549621131
135	Mr H Thaka			Patna	
136	Mr Golu Singh			Patna	
137	Mr Sikanta Kumar			Patna	
138	Md. Villu			Patna	
139	Md. Pavez			Patna	
140	Mr Intiaz Alam			Patna	
141	Mr Pappu Kumar			Patna	
142	Mr Subodh			Patna	
143	Mr Pintu Singh			Patna	
144	Md. Rajak			Patna	

**Total informal sector workers contacted for participation – 500,
No of informal sector workers present at the event 140.**

Media Coverage

No Media Coverage

Background Work Details

Went to the places where Informal Sector people are located with our Partner NGO IEED and officials of IEED made Informal sector aware about the program.

Challenges

It was not a challenge to bring informal sector as I noted the confirmation of 216 people for the program But it became challenge to retain them in the program when it started raining. Everyone started running to save their stuff which was lying outside.

8.1

Patna

21 / 06 / 2017

Month

June

Event Report

Event Report - Workshop for awareness on the hazards of e-waste

Target Audience

Manufacturers

Venue

Bihar Industries Association, Patna

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organised Workshop on Environmental Hazards of E-Waste in Patna on 21st June 2017 for State's electronic manufacturers.

The Workshop was held at Bihar Industries Association, wherein Shri B N Prasad, Chairman-Environment and Waste Management Committee, Bihar Industries Association and Shri Prabhat Kumar Sinha, Chairman-IT Committee, Bihar Industries Association shared their perspective on E-Waste with the audience. Shri Gautam Mehra, Consultant, MAIT conducted the Training Session on the occasion. The manufacturers of electronic products also attended the session.



The key aspects of e-Waste management and the E-waste Management Rules 2016 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

MAIT's additional recommendation for Bihar to enhance its e-Waste Management includes:

Improving the supply chain by providing skill development training and incentives under programmes such as Stand-up India and Start-up India.

Setting-up of collection centres for an organized collection of e-Waste and to make collection of e-Waste a mass movement.

Mandating companies to spend a good proportion of their CSR funds to build better e-Waste collection and processing infrastructure.

Awareness Workshop for Informal Sector on Environmental Hazards of e-Waste 21st June 2017: Bihar Industries Association, Patna

Objectives

At the end of the workshop, participants will be able to:

Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts

Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities

Assist in implementation of the EPR plans for their respective organisations

Assist in training of staff working at shop floor different topics covered in the workshop

Session timing	Session topic	Objective of coverage of topic
0915 – 0945 hrs.	Registration	
0945 – 1000 hrs.	Inauguration	
1000 – 1015 hrs.	<ul style="list-style-type: none"> - Introduction of participants (20 seconds for each participant) - Introduction of the project (5 minutes by the person who is conducting the workshop) - Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	<i>Participants get to know each other and the topics which will be covered in the sessions during the entire day. Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same</i>
1015 - 1045 hrs.	<ul style="list-style-type: none"> - What is e-waste? (5 minutes, which will cover the definition within the rules and the introduction of schedule I within the rules) - Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) - Responsibility of the manufacturers within the ambit of the rules (10 minutes, Introduction to the guidelines laid in the rules, Responsibility of manufacturers as stated in the guidelines to the rules) - Introduction to Extended Producer Responsibility within the ambit of the rules (10 minutes, explaining how the EPR can be implemented, what are the avenues which are defined within the rules, what is the time period for implementation of EPR) 	<i>Participants will get to understand the requirement which manufacturers have to fulfil within the rules and the guidelines which have been stated for implementation. Understanding EPR in the Indian context and its implementation mechanism)</i>
1045 – 1100 hrs.	TEA BREAK	
1100 – 1130 hrs.	<ul style="list-style-type: none"> - How can you prepare an EPR plan for your organisation? (15 minutes, methodologies as allowed within the guidelines to the rules) - How can you finance EPR in the Indian context? (30 minutes, EPR financing models available, EPR financing in the global context, Case studies) 	<i>Participants get to understand in detail how EPR can be implemented and financed within the ambit of the guidelines to the e-waste rules</i>
1130 – 1200 hrs.	<ul style="list-style-type: none"> - How can you set up a PRO for collecting e-waste and implement the rules? (10 minutes, detailing the process of setting up a PRO, the managing of a PRO and collection channels) - How can you set up a collection center for e-waste? (5 minutes, process of setting up a collection center for e-waste) - How can you work with the informal sector for e-waste collection? (15 minutes, examples and case studies of documented model of formal and informal partnerships on e-waste collection within India and select countries) 	<i>Participants get to understand in detail how collection channels can be set up for e-waste collection and targets can be met while working with different stakeholders</i>
1200 – 1230 hrs.	<ul style="list-style-type: none"> - What are the labelling mechanisms for electronics? (10 minutes, bar coding for electronics, data matrix code, BIS code) - Introduction to eco labelling for electronics (5 minutes, 2 case studies from Europe) - Sustainable Consumption and Production (15 minutes, Introduction to circular economy, resource consumption, use of secondary resources) 	<i>Participants get to know about labelling mechanism and use of resources in a sustainable manner</i>
1230 – 1300 hrs.	<ul style="list-style-type: none"> - Health and environment hazards of improper handling of e-waste (15 minutes, composition of e-waste, hazardous elements, environmental and health hazards of materials) - RoHS compliance (5 minutes, hazardous elements, RoHS guidelines within the rules, compliance mechanism) - Managing health and safety standards at workplace (10 minutes, health and safety standards which need to be maintained at workplace, personal protective equipment and its uses) 	<i>Participants get to understand the environmental and health hazards of improper handling of e-waste, the precautions which they need to take at the shop floor to avoid accidents</i>

1330 – 1400 hrs.	QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS					
1400 hrs. onwards	LUNCH					
Sl. No.	Name	Designation	Organisation	City	Mob.	Email
1	Mr Anchal Kumar	Director	Sunny Hospitality	Patna	7542030127	anchal.kumar@shri.ac.in
2	Mr Anchal Kumar	Managing Director	PITD	Patna	8826962508	anchal.kumar31@gmail.com
3	Mr. Gyandeep	Manager - Operations	Sunny Hospitality	Patna	9771447803	gyandeeparya48@gmail.com
4	Mr. Mayank Jagnaray	Manager	Bhagwati Metalloys Pvt Ltd	Patna	7277376419	bhagwatinmetalloys@gmail.com
5	Mr. Moam Aliakhaus	Research Analyst	Adelphi	Patna	8049-7643330929	
6	Mr Ajay Kumar	Manager	Dudhwa Power Ltd.	Patna	9834014100	ajkpatna@gmail.com
7	Ms. Rojini Singh	Consultant	Swastik Parvawatan	Patna	8757929573	rojinisingh@gmail.com
8	Mr Sanjiv Verma	Proprietor	Shakti Electronic & Electricals	Patna	9835633059	shakticasind@yahoo.co.in
9	Ms Swastika Verma	Production Manager	Shakti Electronic & Electricals	Patna	9430091254	swastika2008verma@gmail.com
10	Dr G Prasad	Chairman	Bihar Industry Association	Patna	9430284547	
11	Mr Manish Kumar Tiwari	Member-BIA	NSIT	Patna	9894616924	manipat@gmail.com
12	Ms Sanjhya Sinha	Director	SMCT	Patna	9470485198	sinhamonaya@gmail.com
13	Mr. P.K.Sinha	Chairman	CI - Bihar	Patna	9431017775	prebhat.sinha@ci-bi.in
14	Mr Shubhansh Kumar	Regional Manager	Nelson	Patna	8437336977	shubhanshankumar1280@gmail.com
15	Mr Mohit Sharma	Student	NIT, Patna	Patna	9162383973	mohit2910@gmail.com
16	Mr Shakti Jamil	Student	NIT, Patna	Patna	9631750524	shakti@onkps.in
17	Mr. Sanjay Singh	Dy. Director	MAIT	New Delhi	9910990553	sanjay@mit.com
18	Mr Gautam Mehra	Consultant	MAIT	New Delhi	9811010419	gautam.mehra@gmail.com

Total Number of Invitees – 700, Total Present -

13 Media Coverage

No Media Coverage

Background Work Details

Invitation sent to all concerned Govt. authorities.

Challenges

Unavailability of Manufacturer in the City is a challenge

Opportunity

Nil

Learnings

Event should be conducted in evening when their working hours are completed.

Event location should be kept where these people are residing in large numbers so that commuting problem doesn't persist.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Invited	200
Attended	0

09

Puducherry

29 / 07 / 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Puducherry on 29th July 2017 for State's formal sector.

The Workshop was held at Hotel Annamalai International Puducherry, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The manufacturers and dealers of electronic waste were invited to attend the session.

To enhance awareness amongst stakeholders involved in e-waste management in urban areas thereby encouraging environmentally sound recycling through collective effort of all relevant stakeholders in the value chain



Trainer expressed following points to the manufacturers on E-Waste:

To create an E-waste collection channelization system

Reduce Hazardous substances in Electrical and Electronic components

Responsibilities of different stakeholders within the rules who are disposers of e-waste

What are the steps which one needs to take when handling e-waste that is collected and

Workshop on Environmental Hazards of E-Waste for Manufacturers

Target Audience

Informal Sector

Venue

Hotel Annamalai International, Puducherry

must be sent across to an authorized recycler?

Extended Responsibilities to producers to manage a system of E-waste collection/ take back and channelizing to a registered dismantler/recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW

The role which the formal sector can play within the rules

What are the environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

How can they become a formal collection partner within the ambit of the rules?

What are the state-of-the-art dismantling and recycling techniques in the country and around the world?

What are the overall health and environmental hazards of improper recycling of e-waste?

Importance of proper recycling of e-waste

Impact of disposing e-waste in soil & water



Objectives

- Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
- Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
- Assist in implementation of the EPR plans for their respective organizations
- Assist in training of staff working at shop floor different topics covered in the workshop

Session timing	Session topic	Objective of coverage of topic
1530 – 1550 hrs.	<ul style="list-style-type: none"> Registration, HI Tea & Snacks 	
1550 -1630 hrs.	<ul style="list-style-type: none"> Introduction of participants Introduction of the project Introduction of the topics that will be covered in the workshop Introduction to Eco-labelling Sustainable Consumption and Production 	
1630 – 1720 hrs.	<ul style="list-style-type: none"> E-waste background Introduction to e-waste rules Responsibilities of manufacturers within the rules who are disposers of e-waste Extended Producer Responsibility Building blocks to an internal policy on e-waste Creating awareness on e-waste 	
1720 – 1735 hrs.	<ul style="list-style-type: none"> EPR Plan and its financial mechanism setting up and managing a PRO for collecting e-waste and implement the rules setting up collection centre and working with informal sector for collection 	
1735 – 1745 hrs.	Labelling mechanisms	
1745 – 1800 hrs.	<ul style="list-style-type: none"> Health and environment hazards of improper handling of e-waste RoHS compliance Managing health and safety standards at workplace 	
1800 – 1830 hrs.	QUESTION/ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS	



Background Work Details

A list of manufacturers was provided by MAIT which were contacted through phones before the event and a day before the event as well. Mr. Vivek visited & invited them personally for the event. Mr D. Soundara Pandin (ITTA Puducherry) supported in mobilizing the formal sector & even helped in bookings of the venue for the event.

Challenges

- Several NGOs were contacted but they could not support.
- Scrap dealers were not in support so they refused to attend the event.
- Mobilizing formal sector is a challenge.
- Nobody was interested to join such sessions as their business would get affected.

Outcomes

- People showed interest and asked questions related to the points discussed.
- Audience mostly convinced on the topic & realized its importance.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Invited	20
Actual	30



Detailed list of Attendees

Manufacturers/ Formal Sector			
S.No.	Name	Contact No.	Organization
1	K.Ramu	9843067022	(Prop.) Electro Point Services
2	R.Trivedi	0413-2671141	G.L Electronics
3	S.Rajesh	0413-2671142	G.L Electronics
4	R.Jayapal	9345400639	Gateway Power System
5	P.N.Prasad	9360699909	Microplus Computers
6	P.Vetrivel	9840886813	Yennes Interprises
7	R.Saravanan	9843045374	Trishul
8	R.Ganga Sekar	9842345951	C.E.O-Auro Autech
9	S.Kandasamy	9843071622	Jai Solar
10	S.Prabakaran	9585513427	Energy Power
11	Brahamanand Pareek	9500889195	Om Corporations
12	P.Kathir	9791852130	Silicon System
13	V.Arun Subhu Rangan	9894643700	Qtch Service
14	V.Pwdar	9443344890	Vedwa System
15	Rajesh	9345458277	Iwdica Computers
16	M.Sridhar	9345427972	Sukkra Traders
17	R.Raja	9842314864	Pondy Computers
18	Hans RAJ Jain	9443468820	Ruchika Enterprises
19	R.Arauidhan	9842334440	Shemrock Traders
20	Ramesh Soni	9443245557	Auro Enterprises
21	V.Sabarinathan	9443413600	V.V Computers
22	M.Krishna Kumar	9443317544	Awai NGO
23	G.Sankar	9443429638	
24	K.Kandaramy	8220016784	Lenovo India
25	D.Soundarapandian	9443731929	Computer Sale
26	P.B.Ramanan	9943709000	Datamax Technologies Pvt. Ltd
27	C.Ganessan	9994494323	Nexinin Info. Tech
28	Swamy	-	
29	Anthony	8825748623	NGO
30	A.Saravanan	9884144563	Pentanodes

9.1

Puducherry

29 / 07 / 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Puducherry on 29th July 2017 for State's informal sector.

The Workshop was held at Oulgarete Municipality Office and Bharti Park Puducherry, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event, supported by Shri Anthony Raj(Avvai Village Welfare Society) for Tamil translation. The informal sector was invited in the event.



Trainer expressed following points to the informal sector on E-Waste:

To create an E-waste collection channelization system

Reduce Hazardous substances in Electrical and Electronic components

Responsibilities of different stakeholders within the rules who are disposers of e-waste

What are the steps which one needs to take when handling e-waste that is collected and

Workshop on Environmental Hazards of E-Waste

Target Audience

Informal Sector

Venue

Oulgarete Municipality Office

must be sent across to an authorized recycler?

Extended Responsibilities to producers to manage a system of E-waste collection/ take back and channelizing to a registered dismantler/recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW

The role which the informal sector can play within the rules

What are the environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

How can they become a formal collection partner within the ambit of the rules?

What are the state-of-the-art dismantling and recycling techniques in the country and around the world?

What are the overall health and environmental hazards of improper recycling of e-waste?

Importance of proper recycling of e-waste

Impact of disposing e-waste in soil & water



Objectives

- Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
- Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
- Assist in implementation of the EPR plans for their respective organizations
- Assist in training of staff working at shop floor different topics covered in the workshop

Session timing	Session topic	Objective of coverage of topic
1130-1145	<ul style="list-style-type: none"> Introduction of participants (20 seconds for each participant) Introduction of the project (5 minutes by the person who is conducting the workshop) Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	<ul style="list-style-type: none"> Participants get to know each other and the topics which will be covered in the sessions during the entire day. Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
1145-1200	<ul style="list-style-type: none"> Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose off e-waste in the formal chain) The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	<ul style="list-style-type: none"> Participants will get to understand the need for formalizing so that their livelihoods are secured the future.)
1200-1230	<ul style="list-style-type: none"> What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	<ul style="list-style-type: none"> Participants will get to know the environmental and health hazards of improper recycling of e-waste
1230-1245	<ul style="list-style-type: none"> How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorized recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognized) 	<ul style="list-style-type: none"> Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.
1245 –1300	<ul style="list-style-type: none"> What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done) 	<ul style="list-style-type: none"> Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1300–1330	<ul style="list-style-type: none"> Case studies on formalization of informal sector actors in the country (30 minutes, talking and presenting different case studies of how informal sector actors have formalized and are reaping the benefits if formalization) 	<ul style="list-style-type: none"> Participants will get real life examples of informal sector actors who have formalized and are working within the rules
1330–1345	<ul style="list-style-type: none"> QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	

Background Work Details

Our representative Mr. Vivek Lall along with Mr. Anthony Raj, member of NGO -Avvai Village Welfare Society (assigned by Mr Krishna Kumar, President AVWS) went to the places where informal sector was located.

Mr. S Guruswamy General Manager, Swachatha Corporation was very instrumental in mobilizing informal sector & helped in mobilizing the waste collectors, supervisors and scrap dealers.

Mr. R S Ramesh (Municipal Commissioner) provided his conference hall for arranging the first session for informal sector.

Mr. Anthony Raj (AVWS) helped in communicating with people in local language. He also translated and delivered the topics in local language in both the sessions.

Special thanks to NGO AVWS for their support as Mr. Anthony (assigned by AVWS to support) made painstaking efforts with Mr Vivek for mobilizing informal sector.

Event Attendees

Supervisors
Scrap Dealers
Electronic Mechanics
Electronic Repair Workers
Recyclers

Challenges

Local Scrap Dealers and unauthorised dealers don't want their workers to get educated as this would hamper their business.

According to supervisors if the informal sector gets educated about it they will demand more wages which will in return affect their business/ profits.

Cold and rude behaviours of scrap dealers and supervisors was seen.

Limitations

Climate of the place was unfavourable due to which travelling became a problem.

Commuting for Informal sector for workshops is major issue as they limited means and ways for travelling- Low/ no spending capacity.

People were reluctant to attend as it would affect their daily wages.

No motivation was seen, people at ground level being uneducated are only concerned about their livelihood

Outcomes

Two Successful sessions back to back were held. They showed up interest and asked for questions related to the points discussed. They agreed to adopt different measures and methods on e-waste management.

Support

Need support from local bodies to engage with people of different fields and mobilize them. NGOs and volunteers that are specially working in fields related to waste management should be asked to provide the support during events. Permissions to conduct such workshops at public places should be provided.

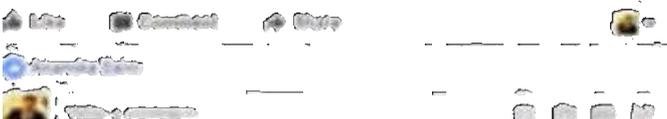
Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



MAIT - (Manufacturers Association Of Information Technology) and 4 new photos.

Regarding the sector which is most affected by the hazardous impacts of E-Waste. MAIT organized the workshop in association with the Ministry of Electronics & IT, CEAMA and NASSCOM Foundation in Puducherry.



20	D.Pourua Sarthy	7358391409	43	Raghu	8678951470
21	M.Savtuel	7358391402	44	S.Vibnesh Kumar	8056586097
22	N.Kumaran	7358391428	45	G.Harharan	9442484612
23	M.Vigneshwaran	9500938917	46	K.Arun Kumar	9781430638

Invited 100

Actual 46

Detail list of Attendes

S.no	Name	Contact No.	S.no	Name	Contact No.
1	N.Kumaran	7358391430	24	R.Coumaran	7358391415
2	S.Mununesa	7358391416	25	M.Vazhmunj	7358391414
3	C.Siva kumar	7358391417	26	D.Pourtua Sarthy	7358391408
4	S.Kumar	7358391409	27	M.Savtuel	7358391402
5	D.Manivilan	7358391410	28	N.Kumaran	7358391426
6	E.Ramarjan	7358391419	29	M.Vigneshwaran	9500938917
7	D.Tamil Selvan	7358391404	30	Raghu	8678951470
8	S.Inandan	7358391420	31	S.Vibnesh Kumar	8056586097
9	P.Elangouav	7358391421	32	G.Hariharan	9442484612
10	S.Suresh	7358391405	33	K.Arun Kumar	9781430638
11	A.Anbaresam	7358391412	34	R.Vishnu	8754379541
12	P.Prabhakaran	7358391427	35	Lio John Raj	8220717651
13	G.Arul Kumar	7358391425	36	N.Jagadeesh	7639612235
14	R.Ravi	7358391406	37	S.Vignesh	8680925255
15	S.Santosh	7358391411	38	R.Mano	9940854624
16	R.Suresh	7358391407	39	D.Arul Prakash	9843587979
17	A.Pascal Germian	9944080294	40	A.Seenvvasan	7358391422
18	R.Coumaran	7358391415	41	M.Saravanan	9994880808
19	M.Vazhmunj	7358391414	42	M.Vigneshwaran	9500938917

9.2

Puducherry

29 / 07 / 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Puducherry on 29th July 2017 for State's informal sector.

The Workshop was held at Oulgarete Municipality Office and Bharti Park Puducherry, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event, supported by Shri Anthony Raj(Avvai Village Welfare Society) for Tamil translation. The informal sector was invited in the event.



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What are the steps which one needs to take when handling e-waste that is collected and

Workshop on Environmental Hazards of E-Waste

Target Audience

Informal Sector

Venue

2nd Session -- Bharti Park, Puducherry

must be sent across to an authorized recycler?

Extended Responsibilities to producers to manage a system of E-waste collection/ take back and channelizing to a registered dismantler/recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW

The role which the informal sector can play within the rules

What are the environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

How can they become a formal collection partner within the ambit of the rules?

What are the state-of-the-art dismantling and recycling techniques in the country and around the world?

What are the overall health and environmental hazards of improper recycling of e-waste?

Importance of proper recycling of e-waste

Impact of disposing e-waste in soil & water



Objectives

- Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
- Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
- Assist in implementation of the EPR plans for their respective organizations
- Assist in training of staff working at shop floor different topics covered in the workshop

Session timing	Session topic	Objective of coverage of topic
1330-1345	<ul style="list-style-type: none"> Introduction of participants (20 seconds for each participant) Introduction of the project (5 minutes by the person who is conducting the workshop) Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	<ul style="list-style-type: none"> Participants get to know each other and the topics which will be covered in the sessions during the entire day. Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
1345-1400	<ul style="list-style-type: none"> Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose off e-waste in the formal chain) The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	<ul style="list-style-type: none"> Participants will get to understand the need for formalising so that their livelihoods are secured in the future.)
1400-1430	<ul style="list-style-type: none"> What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components of e-waste) What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	<ul style="list-style-type: none"> Participants will get to know the environmental and health hazards of improper recycling of e-waste
1430-1445	<ul style="list-style-type: none"> How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorised recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognised) 	<ul style="list-style-type: none"> Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.
1445 –1500	<ul style="list-style-type: none"> What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done) 	<ul style="list-style-type: none"> Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1500–1515	<ul style="list-style-type: none"> QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	

LUNCH

Background Work Details

Our representative Mr. Vivek Lall along with Mr. Anthony Raj, member of NGO -Avvai Village Welfare Society (assigned by Mr Krishna Kumar, President AVWS) went to the places where informal sector was located.

Mr. S Guruswamy General Manager, Swachatha Corporation was very instrumental in mobilizing informal sector & helped in mobilizing the waste collectors, supervisors and scrap dealers.

Mr. Anthony Raj (AVWS) helped in communicating with people in local language. He also translated and delivered the topics in local language in both the sessions.

Special thanks to NGO AVWS for their support as Mr. Anthony (assigned by AVWS to support) made painstaking efforts with Mr Vivek for mobilizing informal sector.

Event Attendees

Event Attendees

Electronic Repair Workers

Recyclers

Challenges

Local Scrap Dealers and unauthorised dealers don't want their workers to get educated as this would hamper their business.

According to supervisors if the informal sector gets educated about it they will demand more wages which will in return affect their business/ profits.

Cold and rude behaviours of scrap dealers and supervisors was seen.

Limitations

Climate of the place was unfavourable due to which travelling became a problem.

Commuting for Informal sector for workshops is major issue as they limited means and ways for travelling- Low/ no spending capacity.

People were reluctant to attend as it would affect their daily wages.

No motivation was seen, people at ground level being uneducated are only concerned about their livelihood.

Outcomes

They showed up interest and asked for questions related to the points discussed.

They agreed to adopt different measures and methods on e-waste management.

Support

Need support from local bodies to engage with people of different fields and mobilize them. NGOs and volunteers that are specially working in fields related to waste management should be asked to provide the support during events. Permissions to conduct such workshops at public places should be provided.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop





Invited

150

Actual

108

Detailed list of Attendees

Name	Name	Name	Name
Lakshmi	Malaiamma	Kasturi	Dhanalakshmi
Anjalakshmi	Ganasundari	Kajal	Priya
Muthulakshmi	Vimala	Thamaravull	Davakun
Manjula	Thaismma	Sasasu	Selvamani
Kala	Dhanalakshmi	Arravalli	Mohnmall
Alamelu	Lalitha	Sagunthi	Ammahunna
Manonmani	Meena	Saguntala	Kosilambal
Anusuya	Sulachana	Muthulakshmi	Kosilambal
Baby	Neela	Kumari	selvamani
Kalyani	Priya	Suhay	Meena
Lakshmi	Thanamoyhi	Amastham	Vadavall
Neha	Mariya	Sivazayanic	Ruhumani

Mariya	Rani	Rajavall	Muthulakshmi
Anjalashi	Muthulakshmi	Ran	Sengoni
Malige	Baby	Selui	Zaya
Vimal	Anjalachi	Vasantha	Lalitha
Muthulakshmi	Vadavalli	Sagunthala	Rani
Maliammal	Maliga	Rani	Anjalachi
Dhanalakshmi	Lakshmi	Saratu	Anjalachi
Sagunthala	Muthulakshmi	Engaualli	Thayamai
Dhanalakshmi	Zaya	Sunitha	Latha
Muttulakshmi	Dhanalakshmi	Krishnavari	Kuppamal
Sellafangi	Sukathra	Vijay	Priya
Eagavalli	Amma	Minnal Sodi	Anjalichi
Anjalatchi	Muthulakshmi	Zayalakshmi	Santha
Subathra	Lakshmi	Arumuj	Chandra
Baby	Egavali	Nagamal	Sethi
Selvambal	Kosilambal	P.Murgan	Kashturi
Pavalahodi	Sellagangi	Paul	Anjala
Muthulakshmi	Kosilambal	Anjalachi	Eageuall
Valli	Selu N	Muthulakshmi	Manga
Kaliammal	Thamilarasi	Kahamar	Rama
Pushpa	Anjalichi	Siva	Chelhi
Sumita	Santha	Sarvan	Rajanlal
BagaLakshmi	Chandra	Muthulakshmi	Saguthul
Anneleish	Sethi	Manjula	Muthulakshmi
Chamel	Kashturi	Anu	Lalita
Erusual	Anjala	Uall	Manga
Rajsuh	Eageuali	Baby	Rama
Anjalichi	Kuppamal	Kaha	Kuppamal
Marionmani	Akmal	Ammch	Baby

9.3

Puducherry

/ 08/ 2017

Month
August

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Puducherry on 31st August 2017 for State's informal sector.

The Workshop was held at Hotel Annamalai International- No. 479, Kamaraja Salai, Saram, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event, supported by Mr. Anthony Raj AVVAI Village Society for Tamil translation. The informal sector was invited in the event. Special thanks to Mr. Khaleel Rahman, Member Scrap Trader Association, Mr. Pravin Kumar, Secretary, Puducherry Traders Federation and Mr. Balu, General Secretary, Puducherry Traders Federation for their help and making the event successful.

Trainer expressed following points to the informal sector on E-Waste:

To create an E-waste collection channelization system.

Reduce Hazardous substances in Electrical and Electronic components.

Responsibilities of different stakeholders within the rules of e-waste

Steps, which one needs to take when handling e-waste that is collected and must be sent

Awareness Workshop on Environmental Hazards of E-Waste

Target Audience
Informal Sector

Venue
Hotel Annamalai International-
No. 479, Kamaraja Salai,
Saram, Puducherry

across to an authorized recycler.

Extended Responsibilities to producers to manage a system of E-waste collection/ reverse logistics and channelizing it through a registered dismantler/recycler.

Responsibilities to Urban Local Bodies for orphan products and for waste found mixed with MSW (Municipal Solid Waste).

Environmental and health hazards of toxic substances that are released when e-Waste is improperly recycled

On becoming formal collection partner within the ambit of the rules

The state-of-the-art dismantling and recycling techniques followed globally

Impact on health and environment due to improper disposal/ recycling of e-waste



Objectives

- Demonstrate enhanced knowledge and understanding on E-waste and its social and environmental impacts
- Map their personal aspirations as E-waste managers and subsequently manage the same at their facilities
- Assist in implementation of the EPR plans for their respective organizations
- Assist in training of staff working at shop floor different topics covered in the workshop

Session timing	Session topic	Objective of coverage of topic
1700-1715	<ul style="list-style-type: none"> Introduction of participants (20 seconds for each participant) Introduction of the project (5 minutes by the person who is conducting the workshop) Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	<ul style="list-style-type: none"> Participants also get to speak for 20 seconds on how they perceive the workshops and what are the likely expectations with which they are attending the same
1715-1745	<ul style="list-style-type: none"> Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose of e-waste in the formal chain) The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can play a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) 	<ul style="list-style-type: none"> Participants will get to know the environmental and health hazards of improper recycling of e-waste.
1745-1800	<ul style="list-style-type: none"> What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) What are the overall health and environmental hazards of improper recycling of e-waste (15 minutes, explaining the environmental impacts and health impacts on children, women and men through improper recycling of e-waste) 	<ul style="list-style-type: none"> Participants will get to understand the need for formalizing so that their livelihoods are secured the future.
1800-1830	<ul style="list-style-type: none"> How can you become a formal collection partner within the ambit of the rules (10 minutes, explaining how they can become formal collection agents for specific sets of stakeholders as has been provided for in the guidelines to the rules) What are the steps which one needs to take when handling e-waste that is collected and has to be sent across to an authorized recycler? (20 minutes, what are the steps within the guidelines to the rules which the informal sector needs to take to ensure that they are formally recognized) 	<ul style="list-style-type: none"> Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers. Representatives from manufacturers will be invited specifically to conduct this session so that both sets of stakeholders are able to assess the needs of each other and draw strategies towards mitigating risks of working with each other.
1830 –1900	<ul style="list-style-type: none"> What are the state of the art dismantling and recycling techniques in the country and around the world? (30 minutes, a film will be shown and different methods of working of recyclers which will be able to showcase how environmentally sound recycling can be done) 	<ul style="list-style-type: none"> Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1900 onwards	<ul style="list-style-type: none"> QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	

Background Work Details

Our representative went to the various places where informal sector was located. After days of search we were able to identify & locate our target (informal sector in Puducherry).

Mr. Pravin Kumar, Secretary, Puducherry Traders Federation, Mr. Balu, General Secretary, Puducherry Traders Federation & Mr. Khaleel Rahman helped in mobilizing informal sector & the waste collectors, supervisors and scrap dealers.

Event Attendees

E-waste/Scrap Dealers

E-waste collectors

Challenges

It very difficult to mobilize the informal sector because there are no proper places where informal sector is located.

Engaging with these people & convincing them to attend the workshop was a challenge as they fear some legal proceedings against them

Language is the biggest barrier in Puducherry, as mostly informal sector is illiterate- none speak Hindi & very less understand English.

Local Scrap Dealers and unauthorised dealers don't want their workers to get educated as this would hamper their business.

During initially interactions cold and rude behaviours of scrap dealers was seen.

Limitations

Commuting for Informal sector for workshops is major issue as they have limited means and ways for travelling- Low/ no spending capacity.

People were reluctant to attend as it would affect their daily wages.

No motivation was seen, people at ground level being uneducated are only concerned about their livelihood.

Outcomes

Session held was successful.

Participants showed up interest and asked for questions related to the points discussed.

They agreed to adopt various measures and methods on e-waste management.

Support

Need support from local bodies- data base of people involved in e-waste business & support to engage with people of different fields and mobilize them.
Permissions to conduct such workshops at public places should be provided on shorter notice.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop

facebook

E-WASTE AWARENESS WORKSHOP

MAIT
29 July

For Formal
Hotel Annamalai International
No.475, Kamaraja Salai, Saram, Puducherry, 605013
Timings: 3:00 PM till 6:00 PM

For Informal
Oulgaret Municipality, Office Jawahar Nagar, Kavery Nagar,
Reddiarpalayam, Puducherry, 605009
Timings: 12:00 Noon till 2:00PM



Invited 150 Actual 108 Recorded 65 Detailed list of

Attendees

Name	Contact Number	Name	Contact Number
K Suresh	8608762095	P Karan Gata	9940737557
Aithamen	9487062007	Sld Loogi	9345486353
Aismoon	9443616799	Naman	9952959599
M. Notorojom	9952989599	M.Ahamd	9642276728
Deslvaganesh	9150028834	M.Moaamad	9360540835
R.Pandian	9940970933	K.R. Abdhrour	9489955192
A.Mahamed Gbouse	9791930688	M Aharmad	8883704848
M.Ashaff Au	9566956609	J. Abdul	9965039878
Sa Innimards	9655316311	A. Azeez Rahman	9188564453
T Shiv Kumar	9894927607	M.Abdul	9789227347
Sas Varun	7708223856	M.Shqui	9597462171
Saharun	9600831078	M.Shadkhumi	9894351822
Rahul	9944961684	M Murti	7418989980
R.Logana	9944961468	Thanga	9943427150
K Kumar	7092502187	B. Raman	9344791259
G Mankendon	9894274551	Mjn Jafferai	9003531380
X Moaamend	9443471104	Rahim	9842388526
V.Aadiovasion	9899508229	V.P Murugan	9894427050
K Vadiveh	9003278403	G.Parthirum	9443076405
G Mani	9443534648	P. Swamy	9488829824
V Raja	8608778434	R.Maamorthda	9443790116
Jp Raja Singh	9894335611	S. Mol. Shabhi	9993434386
Sarjuman	9994655495	S. Shamurthy	9993077209
R Pusrushojhaman	9843936454	Ranjeet	9443469101
M. Santosh	9062993223	J. Kaleel Rahman	9443602492
S.Savari Rajan	9887000077	M.Vigneshwaran	9500938917
M.Vigneshwaran	9500938917	Raghu	8678951470
Raghu	8678951470	S.Vibnesh Kumar	8056586097
S.Vibnesh Kumar	8056586097	G.Hariharan	9442484612
G.Hariharan	9442484612	K.Arun Kumar	9781430638
K.Arun Kumar	9781430638	R.Vishnu	8754379541
R.Vishnu	8754379541	Lio John Raj	8220717651
Lio John Raj	8220717651	N.Jagadeesh	7639612235
N.Jagadeesh	7639612235	R.Coumaran	7358391415
M.Vazhmunj	7358391414	M.Savttuvel	7358391402
D.Pourtua Sarthy	7358391408	N.Kumaran	7358391426

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Ranchi

23 / 07/ 2017

Month

July

Event Report

MAIT, Ministry of Electronics & IT, NASSCOM Foundation and CEAMA organized Workshop on Environmental Hazards of E-Waste at Ranchi on 23rd July 2017 for State's informal sector.

The Workshop was held at Plaza Chowk Car Parking Basement Ranchi, Shri Gautam Mehra, Consultant, MAIT conducted the Training Session at the event. The electronic garbage collectors from the informal sector attended the session.

waste Management Rules 2017 were highlighted in the Workshop. The Workshop also focused on responsibilities of manufacturers, bulk consumers under the new e-Waste Management Rules to raise awareness on e-Waste management.

The main aim of the Workshop was to raise awareness across various levels of society to reduce the adverse impact of e-Waste on environment and health arising out of the polluting technologies used in recycling in the unorganized sector

Trainer expressed following points to the informal sector on E-Waste:

Responsibilities of different stakeholders within the rules who are disposers of e-waste

What are the steps which one needs to take when handling e-waste that is collected and must be sent across to an authorized recycler?

The role which the informal sector can play within the rules

What are the environmental and health hazards

Awareness Workshop on Environmental Hazards of E-Waste

Target Audience

Informal Sector

Venue

Plaza Chowk Car Parking Basement, Near Plaza Cinema Hal, Lalpur, Ranchi

of toxic substances that are released when e-Waste is improperly recycled

How can they become a formal collection partner within the ambit of the rules?

What are the state-of-the-art dismantling and recycling techniques in the country and around the world?

What are the overall health and environmental hazards of improper recycling of e-waste?

Importance of proper recycling of e-waste

Impact of disposing e-waste in soil & water



Objectives

At the end of the workshop, participants will be able to:

Demonstrate knowledge and understanding on E-waste management and its social and environmental impacts
Assist in spreading awareness within their kith and kin at the place where informal sector recycling is happening unchecked

Learn ways and means in which they can formalize and not use ways and means to work which will have adverse impact on their health and environment

Session timing	Session topic	Objective of coverage of topic
1500 – 1530 hrs.	<ul style="list-style-type: none"> • HI TEA & SNACKS 	
1530 -1540 hrs	<ul style="list-style-type: none"> • Registration 	
1540 – 1600 hrs.	<ul style="list-style-type: none"> • Introduction of the project (5 minutes by the person who is conducting the workshop) • Introduction of the topics that will be covered in the workshop (5 minutes with a small brief covered in 2 points each for different sessions) 	Participants will get to understand the need for formalizing so that their livelihoods are secured in the future.)
1600 – 1630 hrs.	<ul style="list-style-type: none"> • Introduction to e-waste rules (5 minutes, 2011 rules and the revised 2016 rules) • Responsibilities of different stakeholders within the rules who are disposers of e-waste (10 minutes, explaining how different disposers have been mandated to dispose off e-waste in the formal chain) 	Participants get to know the e-waste rules and responsibility of every stakeholder.
1630 – 1650 hrs.	<ul style="list-style-type: none"> • The role which the informal sector can play within the rules (15 minutes, explaining how the informal sector through the collection network can plan a very important role to ensure that e-waste moves into the formal sector and is recycled in an environmentally sound manner) • What are the environmental and health hazards of toxic substances that are released when e-waste is improperly recycled? (15 minutes, explaining the toxicity and health hazards related to elements in different components if e-waste) 	Participants will get to know the environmental and health hazards of improper recycling of e-waste
1650 – 1730 hrs.	<ul style="list-style-type: none"> • What are the overall health and environmental hazards of improper recycling of e-waste • How can you become a formal collection partner within the ambit of the rules 	Participants get to understand in detail how they can sustain their livelihoods by becoming formal collection agents and attach to manufacturers/recyclers.
1730 – 1740 hrs.	<ul style="list-style-type: none"> • What are the state of the art dismantling and recycling techniques in the country and around the world? 	Participants will get to learn of how environmentally sound recycling is done and should be done so that health and environment hazards can be mitigated
1740 – 1755 hrs.	<ul style="list-style-type: none"> • Case studies on formalisation of informal sector actors in the country (15 minutes, talking and presenting different case studies of how informal sector actors have formalised and are reaping the benefits if formalisation) 	Participants will get real life examples of informal sector actors who have formalized and are working within the rules
1900 onwards	<ul style="list-style-type: none"> • QUESTIONS AND ANSWER SESSION ALONG WITH FEEDBACK FROM ALL PARTICIPANTS 	
Food Distribution		

Background Work Details

Went to the places where informal Sector people are located and made them aware about the program. & the waste collectors, supervisors and scrap dealers.

Challenges

Due to heavy rains people didn't turned to the event
The event day was Sunday and market was closed so people didn't turn up.

Recommendations

Market should be targeted where the scrap dealers are located.
E-waste hubs managers should be targeted and should be made aware about the event so that they can make these collectors understand the importance of the same.

Learnings

On working days and after their working hours completed the event should be conducted.

Outcomes

People understood the importance of proper e-waste management.

Social Media Coverage

Event announcement post was published on Facebook, Twitter and LinkedIn before the workshop



Invited	200
Actual	81



Detailed list of Attendees

me	Contact	S.no	Name	Contact
Arajeet Yadav	9431591701	28	Sunil Kumar	9973255427
Anil Yadav	9304041525	29	Mahesh Kumar	
Akajeet Singh	9931553515	30	Sunny Singh	
Aryi Jaiswal	9835781621	31	Aryan Ji	
Ajay Yadav	9973513223	32	Nitish Pal	
Akllan Verma	9304031544	33	Arman	
Ajendra Prasad	9334316806	34	Kuldeep Lal	9430389764
Anjay Kumar	9334616458	35	Binod Ram	7761804360
Akdeep Kumar Gupta	9835320458	36	Amarjeet Sahu	7545826510
Araj Batra		37	Deepak Kumar	
Anal Srivastava		38	Vishal Singh	
Arendra Yadav	9955361563	39	Bhola Prasad	
Aashi Roy		40	Sohan Raj	
Ashavir		41	Sanjay Kumar	9334016458
Anarjeet Sahu		42	Vijay Yadav	9973513223
Anoj Jaiswal	9308032545	43	Akhilesh	8578045546
Akesh Gupta		44	Meganshah	9507842037
Ashankar		45	Sanjay Sharma	
Aarnath Kumar		46	Abhinav Kumar	
Anil Kumar Jaiswal	9334055205	47	Anil Jaiswal	9835781621
Anadra Prakash Singh	9835142322	48	Sunil Kumar	9973295427
Akesh Kumar	9905157303	49	Gaurav Kumar	
Athik Rosan	9955450503	50	Pappu Sah	
Anit Kumar		51	Rakesh Das	
Araj Kumar		52	Anoop Gupta	
Anay Shah	9128914205	53	Jaisakar	
Aksheshwar	7549074913	54	Manoj Kumar M	7360971471

S.no	Name	Contact
55	Viraat Roy	
56	Amit Kumar	
57	Vinodh Kumar	
58	Ashish Pandey	9546743399
59	Rohit Kumar	7808217942
60	Ramesh Paswan	
61	Arpit Keshri	
62	Sumit Kumar	
63	Dev Kumar	
64	Aman Kmar	7654900603
65	Sintu Sah	9128914205
66	Vinay Kumar	
67	Maheswar Saheb	
68	Amit Jaiswal	
69	Jeetendra Kumar	
70	Nikhil Singh	
71	Vikash Jany	
72	Mahendra Kumar	851980245
73	Amar Kumar	9122773009
74	Mnna	
75	Baljata Sahu	8404854147
76	Vinod Kumar	7209740817
77	Santosh Kumar	9570329652
78	Umesh Prasad Sha	9534928796
79	Pintu Kumar	
80	Nitesh	
81	Vikash Keshri	

Acknowledgements

This report was made possible thanks to the support of many individuals who joined hands with NASSCOM Foundation, MAIT and CEAMA in the Pilot Phase of the 'Awareness Programme on Environmental Hazards of Electronic Waste' under the Digital India Initiative.

The report was conceptualized and prepared by Rajalakshmi Rajagopal, Assistant Director-Programs and Regional Lead -Telangana & AP and Sandipan Sarangi Assistant Manager NASSCOM Foundation. It was made possible by excellent contributions and insights from some very talented people and we would like to take this opportunity to thank each one of them.

We also thank the Ministry of Electronic & Information Technology (MeitY) and NASSCOM for the constant encouragement and support. We also thank our co-partners MAIT, CEAMA and Strategos Advisory Services for being supportive and great team players.

We also thank our implementation partners, Officials from the respective State Pollution Boards, Department of IT, NIELIT, Municipal Corporations and other Govt. Department as well Members of the Academia and Civil Society for their support, participation and commitment towards the initiative, in each of the cities.

Our sincere thanks to R. Chandrashekhar, President, NASSCOM for taking time and building perspectives under this project. The report would not have been possible without the constant support and encouragement of Shrikant Sinha, CEO NASSCOM Foundation and Bishakha Bhattacharya, Senior Director & Head - Public Policy and Government Affairs at NASSCOM.

We express our sincere gratitude to the ten NGO partners who worked tirelessly on this project –

Centre for Child and Women Development (CCWD) – Bhubaneswar
Environ - Guwahati
Institute of Social Research and Development (ISRD) -Imphal
Madhya Pradesh Vigyan Sabha- Indore
Society for Direct Initiative for Social and Health Action (DISHA)- Kolkata
Divye Parivaran Evam Gram Vikas Sanstha - Moradabad
Communicare Trust - Panjim
Institute of Environment and Eco Development (IEED) - Patna
Avvai Village Welfare Society - Puducherry
Bharatiya Lok Kalyan Sansthan (BLKS) - Ranchi

We sincerely hope that the work done in the pilot phase in each of the 10 cities will be further shaped by the officials at the city level thus building robust e-waste management practices.

Report designed By : Devolv Studio

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