

**WORKSHOP- REPORT**  
On  
**E-WASTE: PERSPECTIVES AND CHALLENGES**  
*A Multi-stakeholder workshop on E-waste management*  
**24<sup>th</sup> November 2011, Hyderabad**



**Organised**

**By**

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## E-WASTE: PERSPECTIVES AND CHALLENGES

### *A Multi-stakeholder workshop on E-waste management*

24<sup>th</sup> November 2011, Hyderabad

#### AGENDA

0930-1000	Registration	
1000-1045	Inaugural Session	
	Welcome Address	Satish Sinha, Associate Director, Toxics Link
	Chief Guest and Key note address	Sri B. Janardha Reddy I.A.S., Director Municipal Administration Department Government of Andhra Pradesh
	Vote of Thanks	Murali Krishna, Guide Foundation For Development
1045-1100	Tea Break	
1100-1345	Session I <b>Chaired by Dr M. Chandra Sekhar garu, Director Academic Affairs- Jawahar Knowledge Center</b>	
1100-1120	E-waste : Global and national issue	Priti Mahesh, Project Manager, Toxics Link
1120-1150	E-waste Rules and Guidelines	Mr Anand Kumar, Environmental Engineer, CPCB
1150-1220	Initiatives by Andhra Pradesh	Mr Prasanna Kumar, Senior Scientist, APPCB
1220-1240	Unraveling EPR & RoHS	Satish Sinha, Associate Director, Toxics Link
1240-1300	E-waste Management case of Infosys	Mr.Vijaya Raghavan –Senior Manager-Infosys
1300-1345	Question Answer and Discussion Session	
1345 -1430	Lunch	
1430-1600	Session II <b>Chaired by Mr Satish Sinha, Associate Director, Toxics Link</b>	
1430-1450	E-Governance role to reduce E-waste	Mr Madhav, Director- E-Governance, Government of Andhra Pradesh
1450-1510	Environment Protection-Urban Local Bodies Focus on E-waste	Mr Khadhar Saheb, Joint Director- Municipalities, Solid Waste Management Division, Andhra Pradesh
1510-15 30	E-waste initiatives and viewpoints of Industry	V.N Chary-Senior Manager Facilities -Mahindra Satyam
1530-16.00	Question Answers/Discussion Session	
1600-1630	Summing up and Way Forward	

## INAUGURAL SESSION

One Day workshop on E-waste Management in Hyderabad began with the inaugural session. **Mr Satish Sinha**, Associate Director, Toxics Link welcomed all the participants in the workshop. He pointed out that Hyderabad is premier metropolitan city with large focus on the electronics and software industry. The city, being an important business city in the South of India, has a large market for Electrical and electronic equipment. In the current times, the life span of such equipments are becoming shorter, thus resulting in larger discarding and replacement leading to large quantities of E-waste being generated in the city. Therefore, organizing this workshop in Hyderabad and creating awareness on the issue was important. This will help the groups and individuals in the city to work towards a sustainable solution.

**Sri B.Janardhana Reddy, I.A.S.** Director Municipal Administration GoAP, Chief Guest of the workshop opined that “waste in any form is not completely a waste in real sense”. He stated that E- waste is a new phenomenon and it is high time to understand nuances of E-waste. E-waste management should focus on reduce, reuse, and recycle. He said that the department shall be organizing more workshop of this kind to bring about awareness among public on this aspect, and will be interested to seek support of civil society organizations. He also expressed his keen interest to spend whole day in the workshop but his inability to do so due to an urgent engagement.

**Sri B. Janardhana Reddy** lit the lamp in symbol of formal launch of the workshop along with **Mr Satish Sinha, Mr Anand Kumar, Dr M. Chandra Sekhar garu** and **Ms Priti Mahesh**.

**Mr Anand Kumar**, Environmental Engineer, Central Pollution Control Board (CPCB) in his inaugural address informed the gathering about the upcoming E-waste Rules and said that this will facilitate setting up of more recycling units in the country. It will also promote issuing licenses and safer methods of collection, dismantling and recycling. CPCB shall be involved in monitoring and controlling unauthorized and harmful practices in E-waste management.

**Dr Chandra Sekhar** Director Academic Affairs, Jawahar Knowledge Centre told that the Center has keen interest on E-waste management.

Wrapping up the inaugural session, **Mr Muralikrishna** GFFD thanked the speakers. He shared that there was overwhelming response for the workshop. There were more than 100 participants from 6 states. He read out the message sent by the Honorable Minister for IT Shri Ponnala Laxmaiah garu wishing the workshop great success and all cooperation from the Government of Andhra Pradesh.

## SESSION I

The first technical session began with the presentation on “E-waste: Global and National Issue by **Ms Priti Mahesh**, Project Manager, Toxics Link. In her presentation, she mentioned about the tremendous growth in the electronics market globally which makes it world’s largest and fastest growing manufacturing industry. The last decade has also seen India emerging as one of the largest markets for electrical and electronic products and the recent studies have estimated that India might be generating around 5 lakh tones of waste of electrical and electronic equipment annually. She classified various types of E-waste arising from electrical and electronic items and listed various items such as Computers, Mobiles, Television, DVDs, Radio, Washing Machine, Refrigerator, Toaster, Mixer etc and also highlighted the toxicity related to these. She described

some of the challenges due to the informal recycling industry, leading to health and environmental concerns. She also mentioned the issue of illegal imports of E-waste. On a positive note she said that E-waste recycling industry was growing with around 23 registered recyclers (with CPCB) in the country.

This was followed with presentation by **Mr Anand Kumar** Environmental Engineer, CPCB on “E-waste rules and guidelines”. He spoke about the E-waste Rules which will come into force in May 2012 and explained the different roles and responsibilities assigned to stakeholders. He said that there are now 47 licensed and authorized recyclers are in the country (including CPCB and SPCBs). There are three types of processes in E-waste management such as collection centres, dismantlers, and recyclers. But these establishments have to be authorized and licensed for regulations. For now lot of dismantling is done in informal sector which he hoped will change with the new regulation.

**Mr Prasanna Kumar**, Senior Scientist, APPCB spoke about “Initiatives by Andhra Pradesh”. Through his own example he tried to explain that individuals have so much e-waste at home which they just store. He emphasized on promotion of safer methods of dismantling and recycling.

**Mr Satish Sinha**, Toxics Link presented on ‘Unraveling EPRs and RoHS’. He described the concept of EPR, i.e. Extended Producer Responsibility and its application in E-waste management. He explained essential elements of an Effective EPR Program and the tools required for the same. EPR is understood as a policy principle to promote total life cycle environmental improvements of product systems by extending the responsibilities of the manufacturer of the product to various parts of the products' life cycle, and especially to the take back, recovery and final disposal of the product. He stressed on the fact that some of the metals in E-waste are not only rare but precious and the need for sustainable management. He emphasized on the responsibility of producer for recycling of E waste. There are 3 types of processing that happens: 1) Collection 2) Dismantling and 3) Recycling. But currently this sector is unorganized and informal. Many questions were raised at producer responsibility for waste reduction and recycling. He explained the concept of individual producer responsibility and collective producer responsibility in E-waste management. As the manufacture has capacity to recover material, it should be made responsible for the management. He also explained the need to implement RoHS or Restriction on Hazardous substances.

## SESSION II

The post lunch session began with a talk by **Mr Madhav**, Director E-Governance, Government of Andhra Pradesh on “E-Governance and role to reduce E-waste”. He mentioned that when he was invited to participate and speak on E-waste management, he was bewildered as E-Governance and E-waste management are oxymoron, means contradictory to each other. He highlighted that E-governance will facilitate better efficient utilization funds to intended beneficiaries and reduce scope for pilferage but admitted that technology is the culprit in generating huge quantities of E-waste material. He said that there is a need to design tools for capacity utilization, thus reducing usage of hazardous elements in the equipment.

The next presentation was by **Mr Vijaya Raghavan**, Senior Manager, Infosys on “E-waste management case of Infosys and perspective”. He stressed on the company’s focus on E-waste management. The company works for the betterment of 1) Bio-diversity 2) Conservation of natural resources and 3) E-waste management. It has kept bins for collecting E-waste in its premises which is used by the employees and is then sent to registered recyclers. The company also donates used desk tops/computers to schools run by Government and private institutions. He expressed concern on the low return due to the cost factor. Customers expect return on the equipment that is discarded. Infosys even supplied E-waste collection bins to

colonies in metropolitan cities such as Hyderabad and Bangalore. Participants felt that donating used computers to government as part of their E-waste disposal approach should be discouraged as the school will not be able to dispose these items later on. Participants felt that companies like Infosys should not only be responsible but allocate adequate funds for establishing recycling units and promoting safer and eco-friendly methods of dismantling and recycling.

**Mr Khadhar Saheb**, Joint Director, Municipalities, Solid waste management division, GoAP on Environment Protection-Urban local bodies shared his experience on E-waste issue. He had done pioneering work into turning Suryapet municipality in the state as model municipality. He felt regulation only cannot facilitate adoption of best practices but every citizen should follow these methods voluntarily and enrich human health and ecology.

The last speaker in the workshop was by **Mr V.N. Chary** Senior Manager Facilities, Mahendra Satyam who spoke on “E-waste initiatives and viewpoints of Industry”. He mentioned that the company has tie-up with recyclers to whom it supply all the E-waste generated by the company. The employees of the company are encouraged to deposit used items in the collection bins set up in its premises and other work places. He said that the company generates awareness through mailers, road shows and pamphlets.

Mr Satish Sinha wrapped up the last session and thanked all the resource persons and speakers. He thanked participants for their active participation and he also thanked the media for covering the event. He thanked Mr Muralikrishna GFFD for taking all efforts in inviting stakeholders and making the workshop a huge success. He expressed hope that this was the first step and will encourage stakeholders in the state to be more active. He urged the Government to start working towards sustainable management of E-waste.

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**Registration**  
**E-Waste Management Workshop on 24<sup>th</sup> November 2011**  
**By Toxics Link and GFFD**

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## Some of the Press coverage in the local media

HYDERABAD 26 NOVEMBER 2011 FRIDAY ₹2.50 PAGES 28 LATE CITY EDITION

THE NEW INDIAN EXPRESS

# Electronic Goods Dealers to Collect E-waste

Speakers at a workshop on E-waste management say all stakeholders in the industry should be roped in for effective disposal of electronic waste

**Express News Service**

Hyderabad: Old television sets, cell phones and computers make up for 5 lakh tonnes of junk every year and the pile is growing at a rate of 15 per cent, if statistics are to be believed.

A one-day workshop on 'E-waste management' at the National Institute of Micro, Small and Medium Enterprises in Yousufguda on Thursday concentrated on various aspects of implementation of e-Waste (management and recycling) Rules approved by the Environment ministry in May 2011.

To be implemented from May 2012, the new rules hold dealers of electronic products solely responsible for ensuring collection of e-waste and transporting it to the recycling plant.

"The estimated target of collection by two e-waste recycling plants in the state will probably be a modest 20 to 40 per cent of the total waste generated," said Prasanna Kumar, a senior scientist at the Andhra Pradesh Pollution Control Board. Hyderabad generates 3,800 metric tonnes of e-waste annually ranking fifth in the country, according to a study conducted by the Environment Protection and Training Research Institute in 2011.

According to the new set of rules, dealers are to file returns of the waste collected to the state PCB every year.

"The collection of e-waste can be done by producers by providing drop-boxes to consumers. So far no nodal ministry or agency has been earmarked to oversee the implementation," said Satish Sinha, associate director of NGO Toxics Link, a organiser of the workshop. Involved in drafting of the bill on e-waste management, he stressed on the need to bring together various stakeholders in effective disposal of e-waste.

The informal sector which functions through scrap-collectors will be brought on-board by licensing them as collectors, who will further pass on the waste to dismantling and recycling units," said Anand Kumar, environmental engineer at the Central Pollution Control Board.

The scrap-dealers usually attempt recovery of precious metals such as gold and palladium used in manufacture through processes which also release residues of lead, chromium, cadmium, mercury and bromine fire retardants which pose health hazards to workers and are toxic to the environment. The value of the heavy metals has been limited below harmful limits in the rules issued by the ministry.

The workshop saw participation from IT professionals, manufacturers, students and members of NGOs as well as academicians.

**RECYCLING E-WASTE**

- Dealers to file returns of e-waste collected every year to PCBs.
- Scrap-collectors to be licensed and asked to pass on waste to recycling and dismantling units.
- Value of harmful metals like lead, chromium, cadmium and mercury to be limited below toxic limits.



**B. Janardhan Reddy, Satish Sinha (right) and Priti Mahesh participating at an E-waste management workshop**



E-waste management workshop at Ni-msme yusafguda in Hyderabad  
On 24<sup>th</sup> November 2011 Conducted by TOXICS LINK and GUIDE FOUNDATION FOR DEVELOPMENT  
Paper clippings



FRIDAY, NOVEMBER 25, 2011

# THE HINDU

INDIA'S NATIONAL NEWSPAPER SINCE 1878

## State urged to draw up plan on e-waste management

Special Correspondent

**HYDERABAD:** Toxics Link, an NGO working in the area of e-waste management, has exhorted the State government to formulate a policy for disposing off/recycling the waste generated by out of use electrical and electronic equipment.

Toxics Link associate director Satish Sinha lamented that Pollution Control Boards in several States were yet to draw up plans for putting in place an effective mechanism

of collection, transport and disposal of e-waste. Though existing legislation on Hazardous Waste (management and handling) covers aspects like generation, storage and disposal of hazardous waste, the rule dealt with computer components not computers as a whole as scrap.

Mr. Sinha was addressing the participants at a workshop on 'E-waste: Perspectives and Challenges' organised by Guide Foundation for Development here on Thursday. He stressed the

need for regulation on import of computers as the developed countries were dumping their e-waste in India.

There had been significant developments since the issue came to the fore in 2003, but there were many milestones to be achieved. "The issue is equally serious as the municipal and hazardous waste and poses serious challenges," he said.

Municipal Administration director B. Janardhan Reddy participated as chief guest in the inaugural.

E-waste management workshop at Ni-mame yasaiguda in Hyderabad  
On 24<sup>th</sup> November 2011 Conducted by TOXICS LINK and GUIDE FOUNDATION FOR DEVELOPMENT  
Paper clippings

**నమస్తే తెలంగాణ**  
షుబ్రహ్మణ్యం 25 నవంబర్ 2011

**హైదరాబాద్ వ్యూహపరిశీలనలో పర్యావరణానికి ముప్పు**

హైదరాబాద్, నవంబర్ 24 (ఆంధ్రజ్యోతి) - హైదరాబాద్ నగరంలోని నిమ్మలపాళెం వద్ద ఉన్న టెక్నాలజీ పార్కులో జరిగిన వ్యూహపరిశీలనలో పర్యావరణానికి ముప్పు ఉందని నిపుణులు హెచ్చరించారు. ఈ సందర్భంగా పర్యావరణ శాస్త్రవేత్తలు, పరిశ్రమల ప్రతినిధులు, అధికారులు కలిసి సమావేశమై, పర్యావరణానికి ముప్పు తెచ్చేలా ఉన్న పనులను నిలిపివేయాలని, పర్యావరణ శాస్త్రవేత్తల సలహాలను పాటించాలని నిర్ణయించారు. ఈ సందర్భంగా పర్యావరణ శాస్త్రవేత్తలు, పరిశ్రమల ప్రతినిధులు, అధికారులు కలిసి సమావేశమై, పర్యావరణానికి ముప్పు తెచ్చేలా ఉన్న పనులను నిలిపివేయాలని, పర్యావరణ శాస్త్రవేత్తల సలహాలను పాటించాలని నిర్ణయించారు.

E-waste management workshop at Ni-mame yasaiguda in Hyderabad  
On 24<sup>th</sup> November 2011 Conducted by TOXICS LINK and GUIDE FOUNDATION FOR DEVELOPMENT  
Paper clippings

**ఆంధ్రజ్యోతి**  
షుబ్రహ్మణ్యం 25 నవంబర్ 2011

**హైదరాబాద్**

**ఈ-వేస్ట్ మేనేజ్మెంట్ పై అవగాహన సదస్సు**

హైదరాబాద్, నవంబర్ 24 (ఆంధ్రజ్యోతి) - హైదరాబాద్ నగరంలోని నిమ్మలపాళెం వద్ద ఉన్న టెక్నాలజీ పార్కులో జరిగిన ఈ-వేస్ట్ మేనేజ్మెంట్ పై అవగాహన సదస్సులో పర్యావరణ శాస్త్రవేత్తలు, పరిశ్రమల ప్రతినిధులు, అధికారులు కలిసి సమావేశమై, పర్యావరణానికి ముప్పు తెచ్చేలా ఉన్న పనులను నిలిపివేయాలని, పర్యావరణ శాస్త్రవేత్తల సలహాలను పాటించాలని నిర్ణయించారు.

**ఎలక్ట్రానిక్ వ్యర్థాలతో పర్యావరణానికి ముప్పు**

హైదరాబాద్, నవంబర్ 24 (ఆంధ్రజ్యోతి) - హైదరాబాద్ నగరంలోని నిమ్మలపాళెం వద్ద ఉన్న టెక్నాలజీ పార్కులో జరిగిన ఎలక్ట్రానిక్ వ్యర్థాలతో పర్యావరణానికి ముప్పు ఉందని నిపుణులు హెచ్చరించారు. ఈ సందర్భంగా పర్యావరణ శాస్త్రవేత్తలు, పరిశ్రమల ప్రతినిధులు, అధికారులు కలిసి సమావేశమై, పర్యావరణానికి ముప్పు తెచ్చేలా ఉన్న పనులను నిలిపివేయాలని, పర్యావరణ శాస్త్రవేత్తల సలహాలను పాటించాలని నిర్ణయించారు.

