

ELECTRONIC WASTE: CONCERNS OF MOBILES IN JHARKHAND

UMESH KUMAR¹ & D N SINGH²

¹Electronics & Communication Engineering, Department of Science & Technology, Jharkhand, GWP Ranchi,
Tharpakhana, Ranchi, India

²Joint Secretary, Department of Science & Technology, Bihar, SBTE, Patna, India

ABSTRACT

Technological advancement leads to growth which leads to further expectations and this trend goes unabated till an optimal / sustainable growth pattern is thought off and achieved. Advancement is a two sided sword which leads to achievement and pushes to concerns also. Growth of communication and electronic industry is very suitable example for this. Rapid modernization has lead to environmental degradation which has given birth to multiple threats. As unique opportunity and threats perception can be visualized in case of mobiles also. It has eased the life but has posed problems also. Starting from e waste concerns, regulatory measures, depletion of precious & rare materials, increase in toxicity & harardness, socio economic to cultural evasion can be seen. The instrument hardly weighing 80 to 100 gm has multiple aspects. The constituent's recovery, reuse, recycling provisions and awareness regarding these are major areas which have to be highlighted and thought about. Strict adherence from user side for preservation of materials, modification, concerns regarding EPR, take back recycling, reuse and proper disposal mechanism development has to be adequately addressed by the producers. The role of regulatory agencies is very important, enactment and enforcement of available legislative and regulatory measures can result in better environment & sustained development.

In all one can say that recovery of around 90 % material can be achieved from extraction from the wastes resulting in lessening in use of virgin materials for production. Lessening of e waste generation is the best policy for reduction of e waste and this can be achieved by awareness. Best tool for effective and sustained e waste management is to create awareness, frame requisite policy, sustainable model development and proper implementation of this model. The creation of awareness may need to include topics in the curricula of professions courses.

KEYWORDS: Coverage, Extraction, Hazards, Mobiles, Residuals, Technology, Tele Density, Waste Generation