National Policy Workshop Webinar Series

On

Countermeasures for Riverine and Marine Plastic Litter in India

12 - 22 May 2020

Session 6: Scenarios to counter plastics litter in river and marine environment by overcoming barriers and identifying enabling measures and shaping roadmap and strategy ahead

Innovation in Plastics
Product Design / Substitutes / Alternatives / Applications – towards conservation
Innovation can be of Multiple Types (5 WAYS)

- Polymer Innovation – Towards Recyclability & Biodegradability
- Packaging Harmonisation – Towards Single Streaming of flexibles
- Delivery & Consumption Innovation – Towards lesser use of Single Use
- EPR Innovation – bringing polluters & conservers together – Plastic Xchange
- Innovation to Commercialisation – Plastic Index for ALL

When to Change
(1) Polymer Innovation

- Ability to delayer the MLP – CreaSolv by Unilever
- Ability to Replace Aluminium as O2 & Moisture Barrier - EVOH by **Dow Retain** – Compatibalizers
- Nylon & Polyester Busters – Additives from Resin Cos
- Back to PolyOlefins from QuantaFuel
- Bio Compostable Plastics – by many players
(2) Packaging Harmonisation

- Harmonization is Happening in Europe why not India
  - Monomerization – Single Family Plastic for Multi Layer
  - Maximum Inerts upto 8%
  - Moving Away from Polyester & Nylon (Non Recyclables)
  - Moving Away from Aluminium (EVOH)

- Harmonisation creates single waste stream

- Gutka Industry moved away from Plastic

- Is FMCG waiting for a BAN for plastics use in Sachets
(3) Delivery Innovation

- Milk Man delivery in our times
- Washable & Reusable Containers
- Common Logistics for Multi brand
- Excellent COVID – Home Consumption
- Food Delivery (BC) 15BN plastics PA - Can it be in Reusable Containers
- Returnable Plastics (Like returnable Glass) for Beverages
(3) Consumption Innovation

- NO Secondary Packaging
- Loose Sales (like Grains in Big Bazaar)
- Bring your Own Container
(4) Plastic Xchange – Bring Polluters & Preventors together

- **Who puts out Plastics into Environment**
  - PIMBOs
  - Bulk Waste Generators
  - Offices / Malls / Apartments
  - Stores / Delivery / Couriers / Ecom
  - Citizens

- **Who takes away plastics from Environment**
  - Municipalities
  - Cement Companies
  - Waste Management Companies
  - Recyclers
  - Waste Pickers

- MOU between Stock Exchange and ProIndia
- Plastic Credit Units (PCU) would be generated by Conservers – like recyclers, municipalities, WM Companies
- PCU would be Required by Polluters
- PCU would be defined, certified like commodity
- PCU would be traded at Xchange
Awaiting National EPR Framework

What’s the Target for Recovery & Recycling for PIMBOs

Is EPR =
1. Awareness
2. Waste Picker Welfare
3. Actual Recovery & Recycling against Plastic Put Out
4. None of the Above
5. All of the Above

Can there be One Model for above and each Stakeholder simply replicates the same

Benefits of Scale & Scope

Can create Plastics Recycling as Industry
When to Change

- Incineration is NOT Recycling
- Incineration is Wasteful & Not Resource Efficient
- Current Practice is due to lack of Collection, Sorting & Recycling Infrastructure
- We do NOT Lack Ideas – We lack Commitment (pls read VGF) for Plastics Circularity

- Plastics to Roads
- Plastics to Tiles
- Plastics to Fuel (Pyrolysis)
- Plastics to Plastics
- Bottle to Bottle

Ready to Change?

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