



PLASTIC BAN OR RECYCLING ??





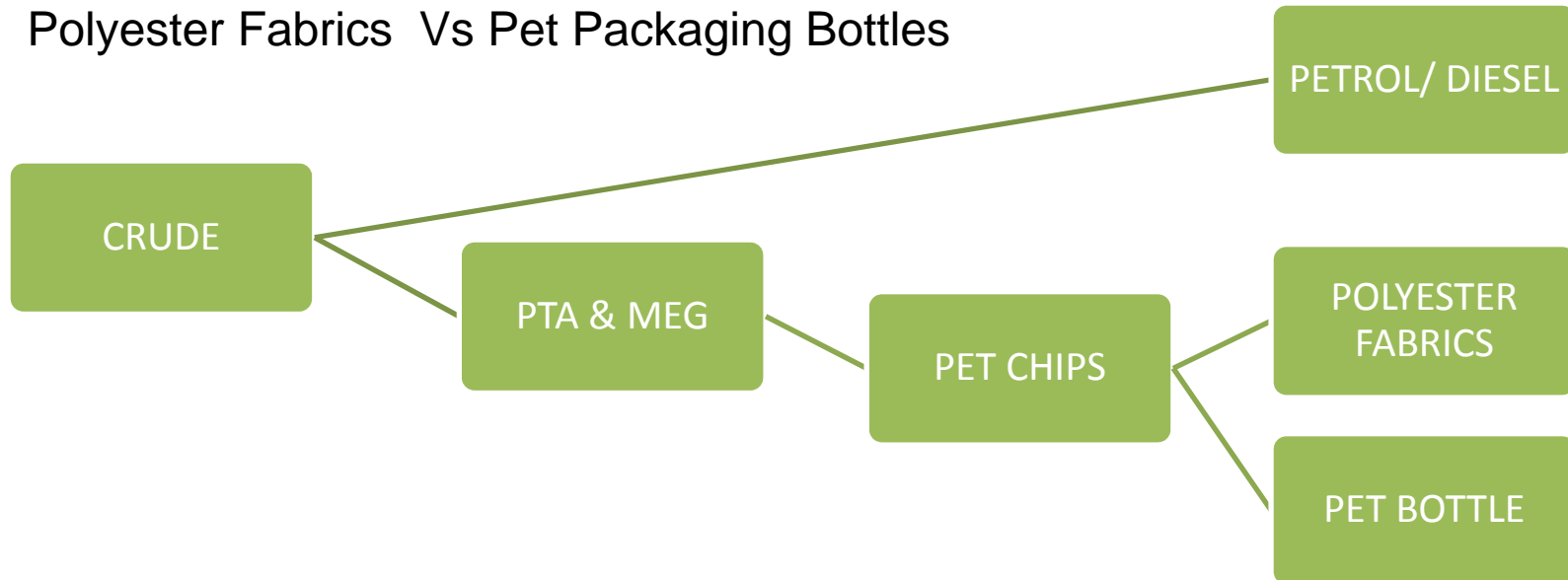
SOLUTION OF PLASTIC WASTE ?



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- Normal Human being is surrounded by n number of plastics

Polyester Fabrics Vs Pet Packaging Bottles





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SOLUTION OF PLASTIC WASTE ?

■ Plastic Packaging:



- Cost Effective
- Easy to Handle

■ Glass/Wood/Paper/Cork:

- More Expensive
- Extra Handling Cost
- More Emission in processing



NO ALTERNATE

There is a need to find effective ways to COLLECT & RECYCLE plastic items with inclusion of all STAKE HOLDERS





PET RECYCLING

- PET recycle industry is very well organized and at GOOD LEVEL in INDIA
- PET Bottle to RECYCLED POLYESTER STAPLE FIBER (RPSF) industry segment & Other Recyclers' segment's installed capacity 850KT Annually, equivalent to 420 Crores of PET Bottles per month
- Collection of these bottles, gives indirect employment to 2 lakh unskilled & uneducated people





PET RECYCLING

WE AT JB ECOTEX

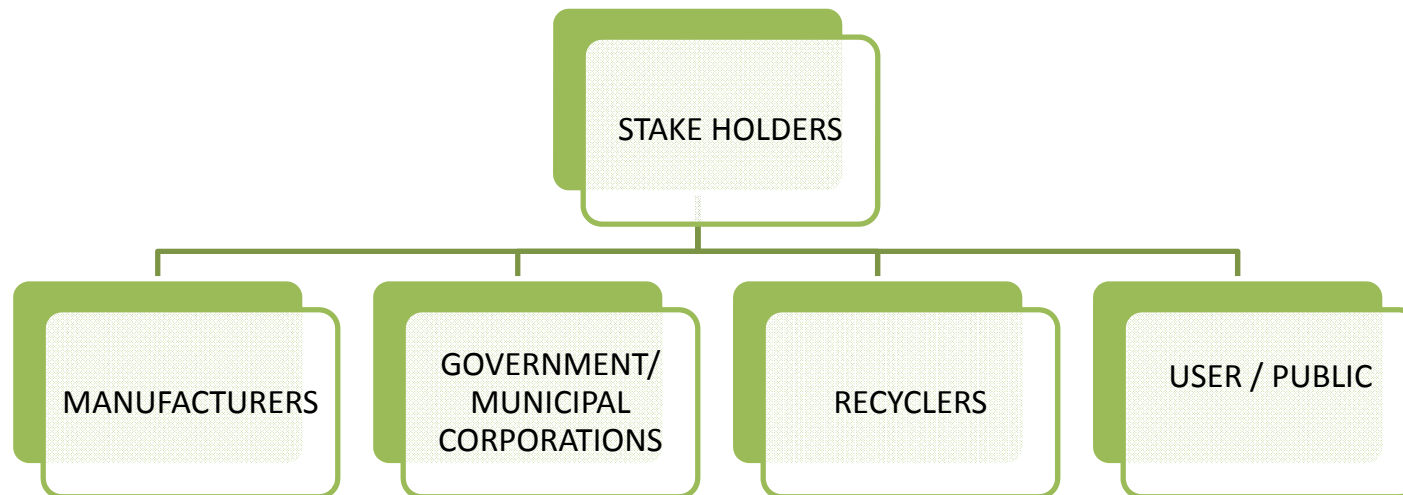
RECYCLES 200 TONNES PET WASTE PER DAY
EQUIVALENT TO 1.2 Crore PET BOTTLES





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RESPONSIBLES FOR PLASTIC CHAIN





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Plastic Product Manufacturers

- Manufacturing plastic items using one type of plastic given no technical problem for example a toothbrush has 3-4 kind of materials which ultimately goes to land filling or burning
- Clear, printed or embossed name (English & Hindi) of the plastic along with it's recycle number
- Avoid using plastics which are recyclable but non collectable





Plastic Product Manufacturers



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F I B E R - R E I N C A R N A T E D

- Use only single type of label for branding
 - At present Labels are of BOPP & PVC
 - Why can't PET, If not then BOPP can be standardized
- Standard Material and Color for Water or Cold drinks Bottle Caps
 - At present caps are of HD , LD & PP
 - Why can't PET , if not than make anyone as standard
- Big 20 liter water bottle of PET & PC, Why not only PET ?
- No Green & Blue bottles if not necessary





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Standard method to apply labels on bottles





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Goverenments / Municipal Corporations

- Incentivize recycling activities by means of followings: -
 - Refund of GST to recyclers and downstream chain
 - Subsidize cost of project (capital/interest/power etc)
 - Significant export incentives for recycled products
Eg: In Asia, Bangladesh gives export incentives for pet flakes from recycling of waste pet bottles





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INCENTIVES

NEW
RECYCLING
INDUSTRIES

MORE
DEMAND OF
PLASTIC
WASTE

MORE PRICE
REALISATION
TO RAG
PICKER

MORE
PEOPLE
COLLECTING
WASTE

MORE
COLLECTION
OF WASTE





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Goverenments / Municipal Corporations

- Government research institutions for technology development to separate mixed content garments
- Compulsory use of certain % of recycled fiber/filament into garments
- Govt. Controlled Body with participation of all kind of plastic recyclers for
 - Standardization of material of different plastic products/packing methods
 - No Use of Non Recyclable/ Hard to Recycle/ Non Collectable material
Eg: Milk pouches are of PE but gets mixed with household food waste, can't be segregated so unnecessarily goes to land fill sites





Goverenments / Municipal Corporations

- WET WASTE ??
- DRY WASTE ??

Clear Nomenclature for Waste Separation





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Goverenments / Municipal Corporations **RVMs (Reverse Vending Machines)**

A ROUGH ESTIMATE OF SINGLE RVM

COST	3 Lakh
BOTTLES PER DAY	500 OR 8.5 KG OR INR 200
FIXED Employment to Unorganized Sector	NO

▪ Instead of RVMs, amount proposed for RVMs should be directly transferred to Recyclers / NGOs by some mechanism

▪ **NO FLAKE OF PET BOTTLE
ONLY COMPRESSION**

10000 RVM = Rs.300 crores = 30000 tonnes annually

INDIA's DOMESTIC CONSUMPTION AROUND 830,000 TONNES (2015-16)





Ratlam Railway Station

Actual

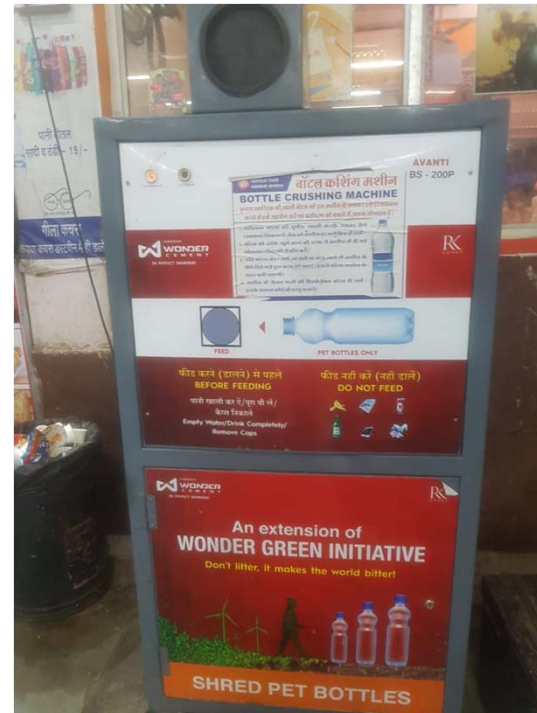
Reverse

Vending

Machine



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General Public Awareness

- Dedicated Government Wing for Awareness in General Public
 - Use of social media for awareness about recyclability of plastic waste
 - Dedicated one page in news papers & magazines explaining about recycling
 - Plastic waste awareness related videos/animated videos in Public Domain





Let Us All Pledge To Do The Following Wherever Possible

Reduce Usages

Reuse Products

Recycle Maximum

Recover Energy From Whatever Is Not Recyclable

