

# FOODPACK LAB2 & ITC

ITC Packaging & Printing Business







- Title : Direct Filling in Carton for Food Products.
- Project Brief :
  - Plastic replacement approach and market is having such solutions, However the concern is the hermetic sealing and barrier requirements.
  - Example : Direct filling of Detergents (video in next slide)
- Properties Expected:
- Barrier Properties WVTR & OTR
- Sealing Hermetic
- Mechanical strength
- Cost effective
- Compostable & Sustainable
- Retention of Nitrogen Flushing
- Retortable/ Microwavable.

### Application products:

- Breakfast Cereals
- Infant Foods
- Ready to Cook / Ready to Eat Foods.
- Beverage Segment (Tea/ Coffee)





# **Direct Fill Packaging Cartons**

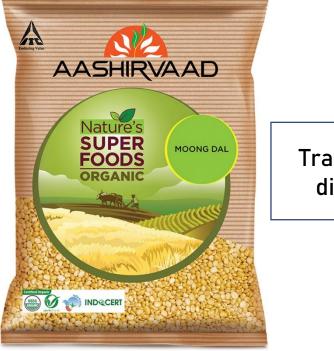












Transition from film to direct carton board



Pic - for reference only







1) Dal / lentils – A type of dried pulses

Current Package Structure – Flexible / Film Packaging: PET + Natural PE







**Products Preferred to Start with** 



#### 2) Soya Chunks – Byproducts left after extraction of soybean oil

Current Package Structure – Flexible / Film Packaging: PET + Natural PE











3) Tea Powders

Current Package Structure 1 – METPET + Paper + PE









Below enclosed are the three widely used product filling production line

Cartonator

Link : <a href="https://www.youtube.com/watch?v=lipB44kxXy8">https://www.youtube.com/watch?v=lipB44kxXy8</a>

## Vertical Form Fill Seal Machine

Link : <u>https://www.youtube.com/watch?v=9sjs0VR9DYY</u>

### Horizontal Form Fill Seal Machine

Link : <u>https://www.youtube.com/watch?v=ikWbyuK\_fpQ</u>







Package Substrate – Paper Board (Additional compostable barrier coatings may be provided over paperboard for enhancing package properties depending on product nature)

Package Profile – We are open to innovative shapes and structures of the package

Package Size 1 – For filling 500g of product Package Size 2 – For filling 1kg of product







# Thank You





