Practical Exercise 13

Study of packaging system of milk

Objective

To know about the packaging material and machinery used for packaging of fluid milk

Requirements

Milk, LDPE (Low density polythylene) roll, VFFS (Vertical from fill seal) packaging machine

Procedure

- i. Place the packaging roll in the roller assembly
- ii. Connect the film to pouch forming assembly
- iii. Switch on UV (Ultra Violet) lamp provided for sterilizing the film
- iv. Check the teflon tapes of horizontal seal and vertical seal for proper integrity
- v. Check the water connection to sealer head
- vi. Set the pouch size to either 500ml or 1000ml
- vii. Fill the milk to buffering tank of packaging machine
- viii. Start the machine in manual mode

- ix. Check for seal integrity whether it is sended properly or not and weight of the pouch
- x. Store the packed pouches in cold room

Observations

Make and model of the VFFS machine	
Capacity of machine	litre per hour
Type of milk	
Quantity of milk	kg
Thickness of the film	micron
Weight of 500ml pouch	g
Weight of 1000ml pouch	g
Number of 500ml pouches obtained per minute	
Number of 1000ml pouches obtained per minute	

REVIEW QUESTIONS

- 1. What is the procedure for operating vertical from fill seal (VFFS) packaging machine?
- 2. What is the purpose of UV lamp in the packaging machine?
- 3. Why checking of seal integrity important?
- 4. How will you determine capacity of packaging machine in terms of milk pouch per hour?