**Pest control & garbage disposal**

Pest control – pest move from dirt to food & transfer microorganisms which could cause serious diseases in human. Cleanliness is the key to pest control.

 Cockroaches live & breed in dark & damp places. They move from garbage & drainage to food contaminating with diseases causing bacteria. Good ventilation & lighting discourage pets. Permitted insecticide must be used regularly depending on the infestation. Cockroach trap should be used.

Flies cannot chew solid food so they released a fluid on food to liquefy it .This fluid contains harmful bacteria every two to three munites.Garbage bin &food containers must be tightly covered. Potholes & doors must be closed or covered to prevent entry.

Insects infesting cereals & pulses are generally called as stored grain insects. Tiny holes on dal or chana indicates presence of insects. All cereals, pulses & flours must be checked thoroughly while received. Food infected with insect must be discarded immediately. FIFO system be strictly followed in the category of foods & over stocking should be avoided.

Rat spread many diseases. They destroy much more than what they can eat. Store room door must be closed tightly without leaving any gap in between. Rat traps must be used to catch the rats.

Garbage disposal – In the food industry, waste must be disposed off regularly & efficiently to prevent the contamination.

It is classified into three main groups

* Solid waste
* Liquid waste
* Gaseous waste

In solid waste there are two types -

1. Garbage – It is the waste mater result from the preparation, cooking & consumption of food. It includes inedible scraps of food which needs to be disposed off. Its includes vegetable & fruits, skin, rotten & spoil food. Bones skin feather ect.
2. Refuse – Any waste material that is not a food item. Example – bottle,cans, bag,napkin, toothpick,tissue paper etc.

STORAGE OF GARBAGE

It is important to store garbage correctly before it is disposed off. It shouldn’t be left overnight near the kitchen area. This area is warmer than the other area & decay is faster here. The ideal storage area is in the yard behind the premises. Garbage should be filled in a bin this bins should be kept in a coolest place. In some hotels there is a garbage collection room where they maintain the proper temperature.

New technology can be used if possible –

* Vermiculture
* Recycling

Liquid waste / sewerage

Liquid waste includes waste water from sink & drains from the kitchen. Dish washing area, laundry, bathrooms, and other drain from the buildings. It also contains chemical like pesticides, detergents etc. as far as possible sewage should be disposed off in a public sewage system.

Gaseous waste

It includes smokes & fumes come out from kitchen especially when wood or cool is used. This will pollute the environment so proper layouts of chimney & exhaust fans are required.

VERMICULTURE –

Vermiculture is a cheap, practical, innovative technology which conserves the hums contain of soil. This is activated with the help of the earthworm Pheritima olongata. Aerobic bacteria multiply in the gut of the earthworm &decomposed waste like sugars, starch, cellulose &protein into hums &simple forms which can be easily assimilated by plants. The burrowing action of the worm tills the soil ten times deeper than the traditional plough. It increases property & aeration by breaking up the soil.

Vermiculture can be done in garbage bin & or in soil in garden beds were vermicasting can be applied.

RECYCLING –

This is the reprocessing of waste products so that they can be reused. One way of utilizing the energy from waste food is by using it as feed for pigs and poultry. It should be collected separately, taking care not to mix other refuses like cans, broken glass, etc.Waste food may be used for poultry feed after it is boiled well, shredded, dried and enriched with minerals. Destruction of all pathogens are required, otherwise they may feed their way into the food of animals and ultimately reach the food consumed by humans.

RECYCLING NON-BIO DEGRADEBLE WASTE

All kinds of glass, plastic, polythene, paper and metal can be regarded. Each of these should be collected in separate containers or bags and sent for recycling. This will reduce the volume of garbage to be disposed off daily and indirectly reduce pollution.

This use of recycled plastics is, however, not permitted in the food industry.

BIOGAS – Is another new technology specially used in agriculture field.