

Q3.

Ans AD WASTE SCREENING.

- ① Waste screening is the essential operation of all solid waste treatment plant.
- ② Screens are used for achieving efficient separation of particles through dependence on differences plus particle size with respect to any two dimension.

③ Now a days, screening is an essential parts of waste management and it enables the recovery and recycling of valuable material as well as the processing of waste to fuel, such as fire-derived fuel (TDF) for instance.

B) Screening equipment

① Drum Screens.

a) A drum screen is a mechanically robust reliable and easy to use machine as it has now only a few moving parts.

b) It is best suited for screening compact earth, wood, light construction waste, biomass, and sand, for instance.

(iii) As the structure of machine is simple it is also affordable and easy to service.

2) Disc Screens

i) Disc screens are capable of screening almost any material, and they are particularly good for waste processing.

ii) In addition, a disc screen takes less space than a drum screen.

(iii) A 6-9 feet (2-3 meter) disc screen perform the same job as a 16-19 feet (5-6) meter equivalent drum screen.

3) Vibrating Screens

i) Vibrating has rather limited and specific uses, they are mainly used to screen aggregate. In addition, vibrating screen are rather expensive.

(ii) They are not as reliable as other screening solution and they have relatively high fuel consumption.