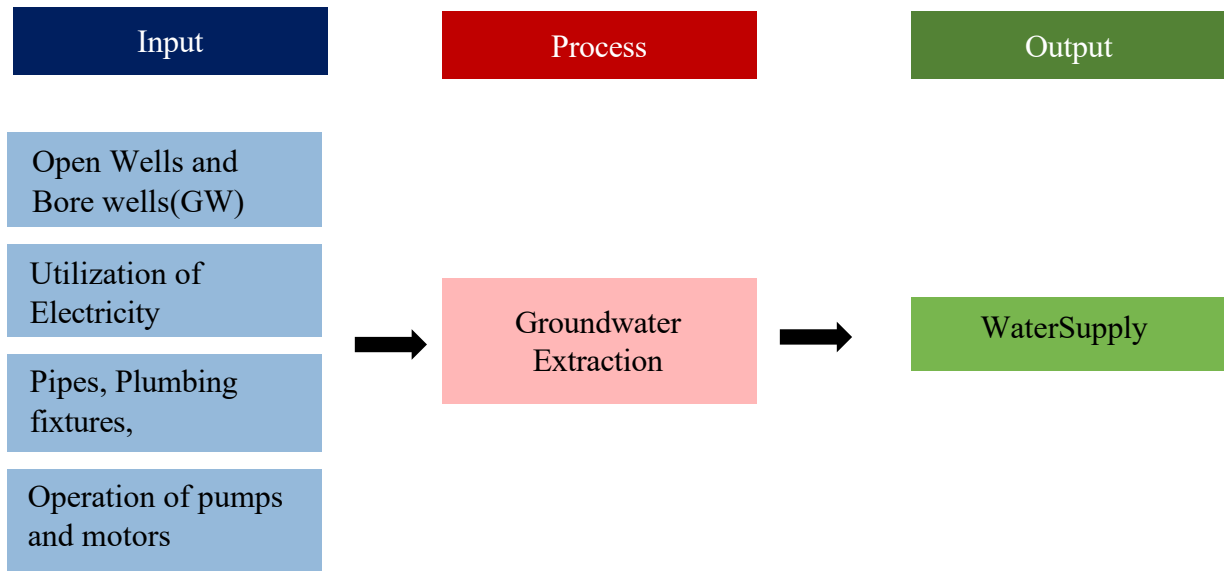
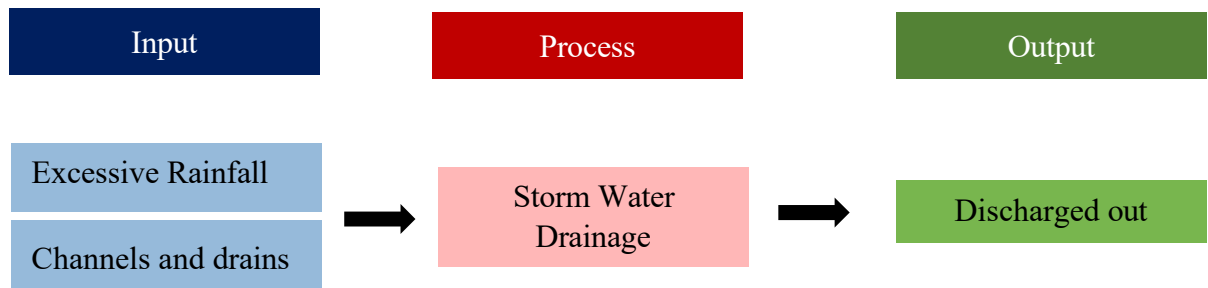


12.12 Annexure-Environmental Process Map



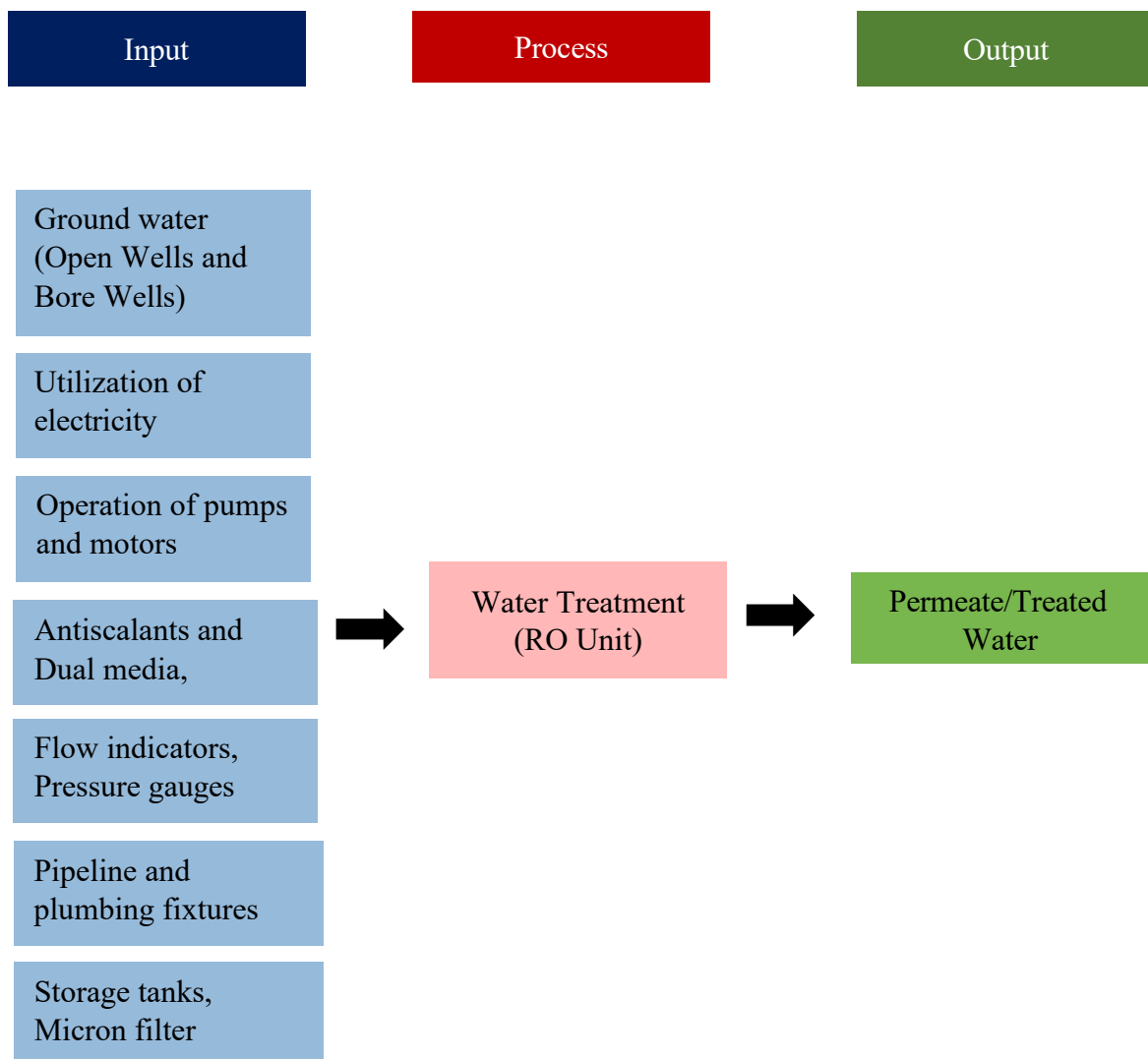
Impacts: Depletion of non-renewable source of energy and CO₂ emission, Generation of noise due to motor and pump operation, Generation of obsolete components, Depletion of renewable source of energy (water).

Fig1. Groundwater extraction



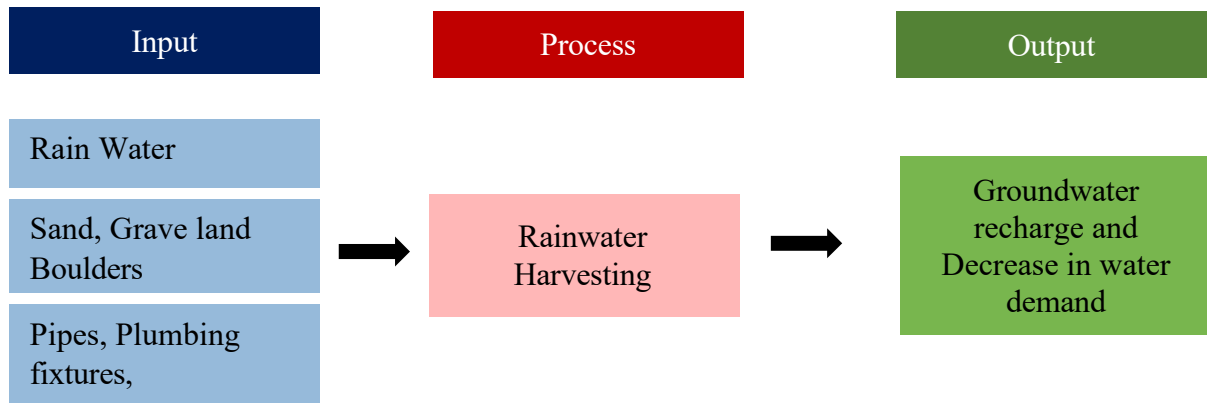
Impacts: Prevention from flood, Reduce soil erosion

Fig2. Storm water drainage



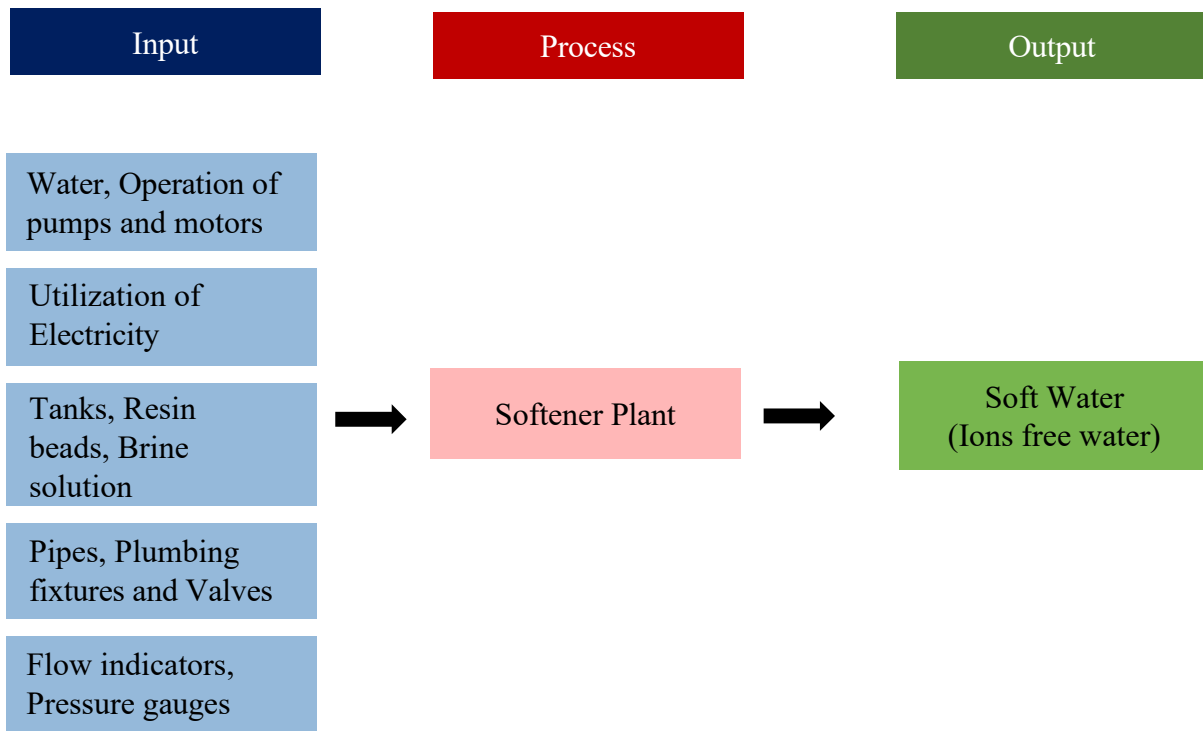
Impacts: Generation of reject water, Depletion of non-renewable source of energy and CO₂emission, Generation of noise due to motor and pump operation, Generation of obsolete components, Spillage of Antiscalant, Depletion of renewable source of energy (water).

Fig3.Reverse osmosis unit



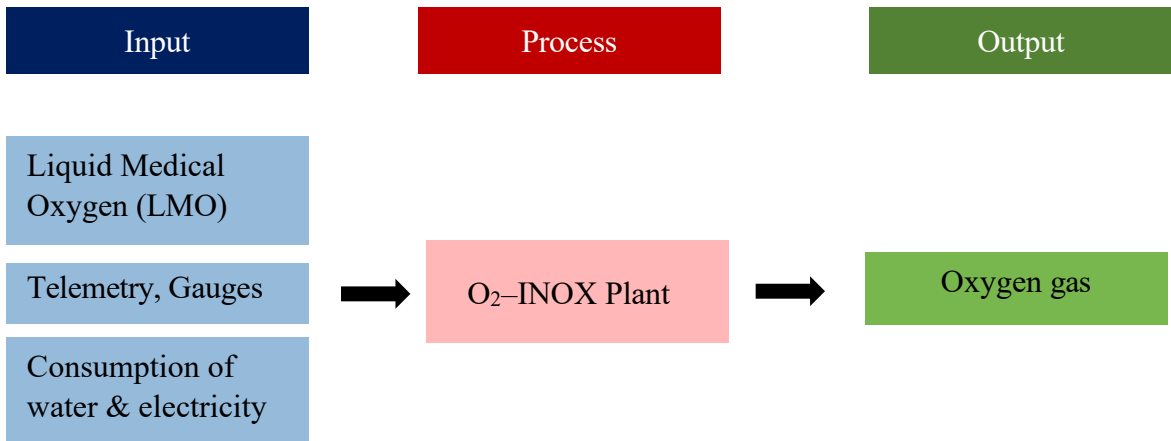
Impacts: Generation of obsolete components and deteriorated layer materials, Increase quality and quantity of groundwater.

Fig4.Rain water harvesting



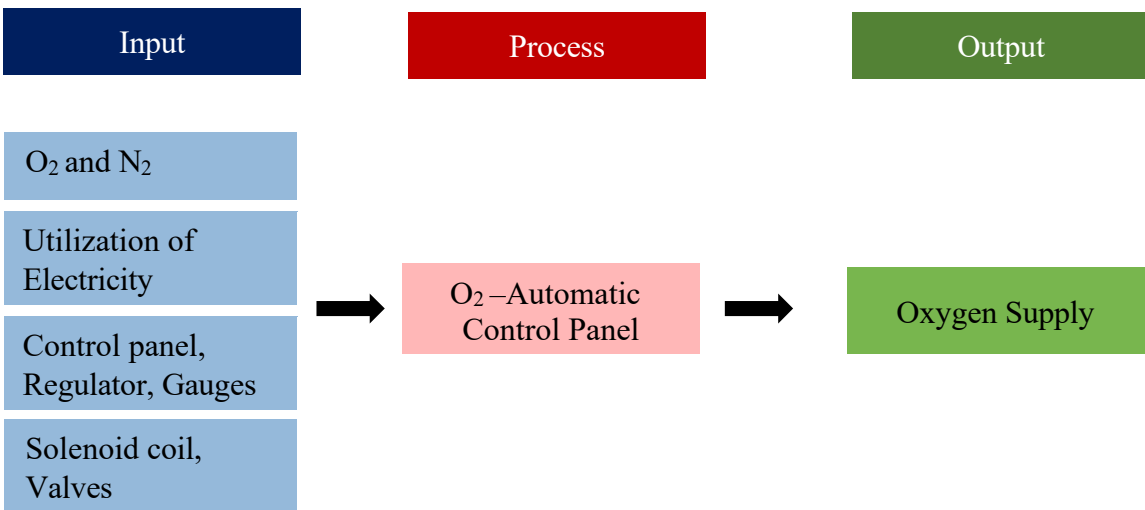
Impacts: Depletion of non-renewable source of energy and CO₂ emission, Generation of noise due to motor and pump operation, Generation of obsolete components, Depletion of renewable source of energy (water), Prevention of scaling effects, Spillage of resin beads & salt.

Fig5.Softener plant



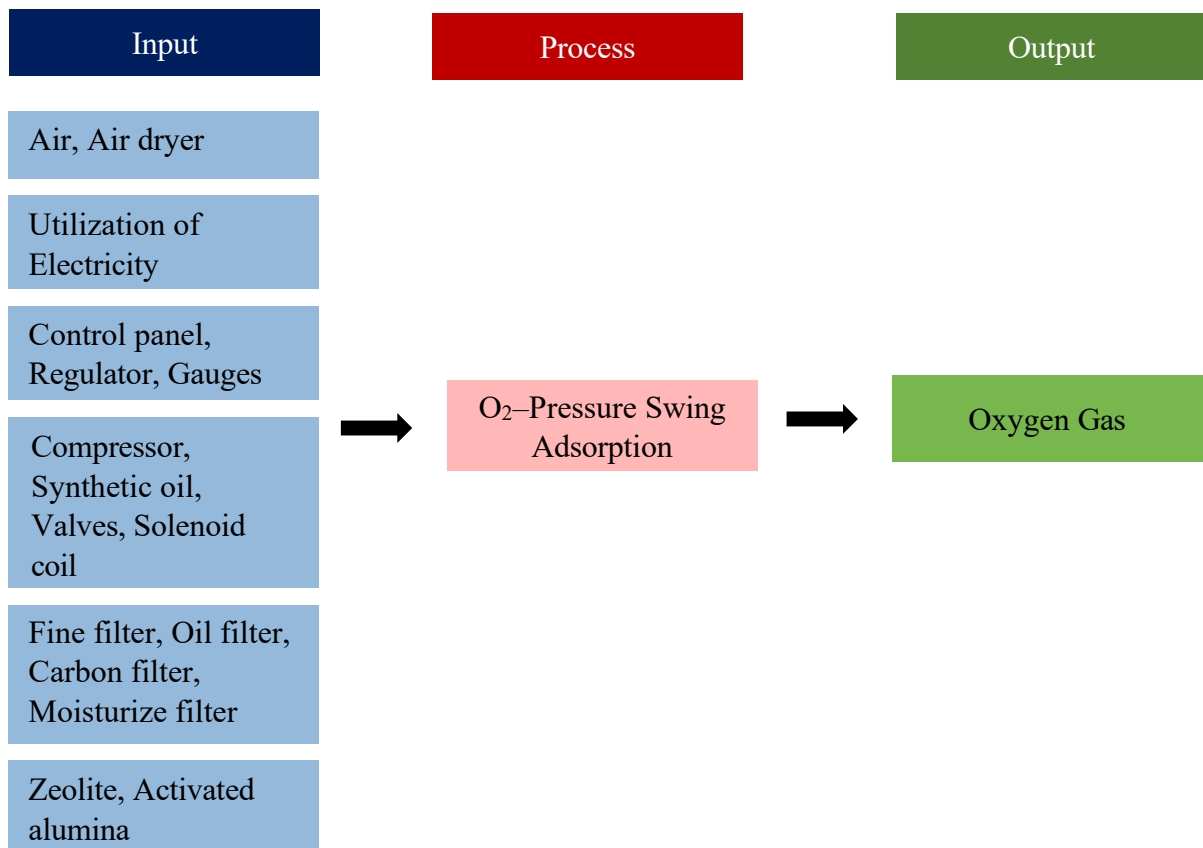
Impacts: Depletion of non-renewable source of energy and CO₂ emission, Generation of obsolete gauges and telemetric components, Depletion of renewable source of energy (water).

Fig6.O₂-INOX Plant



Impacts: Depletion of non-renewable source of energy and CO₂ emission, Generation of obsolete components and used cylinders, Leakage of oxygen.

Fig7.O₂-automatic control panel



Impacts: Depletion of non-renewable source of energy and CO₂emission, Generation of obsolete components and used oil, Generation noise due to compressor operation, Spillage of zeolite and activated alumina

Fig 8.O₂-pressure swing adsorption

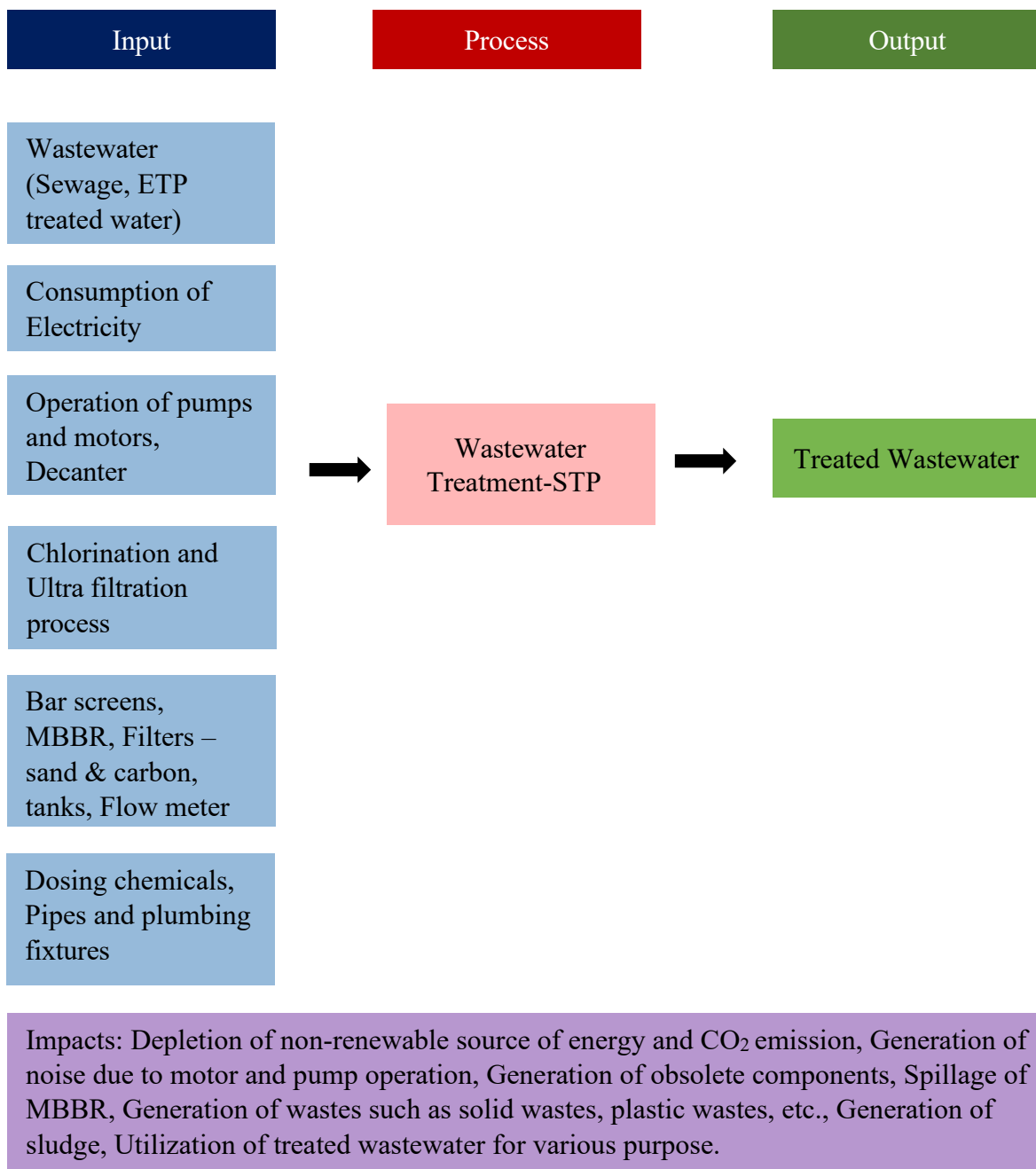


Fig 9. Sewage treatment plant (STP)

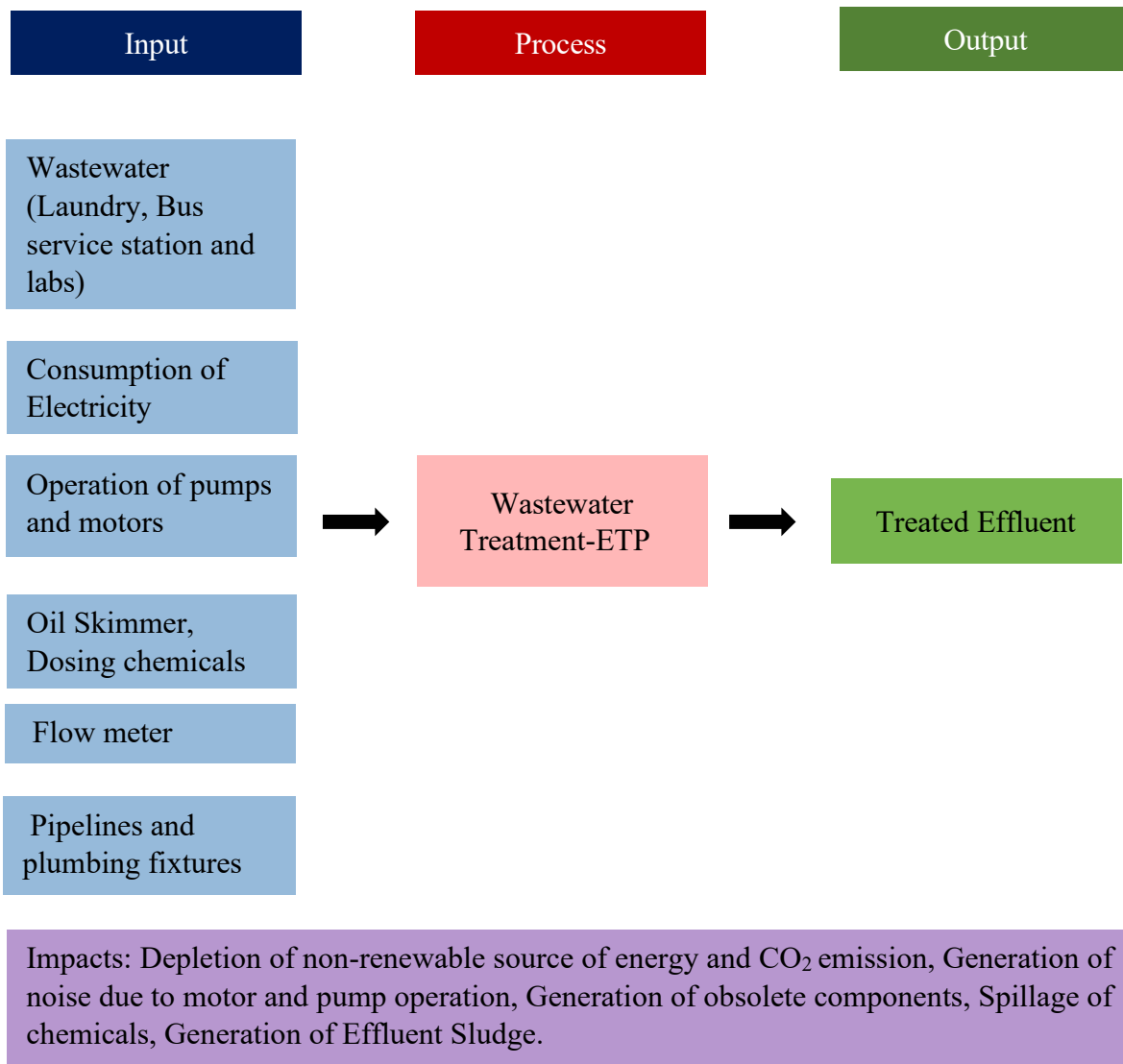


Fig10. Effluent treatment plant(ETP)

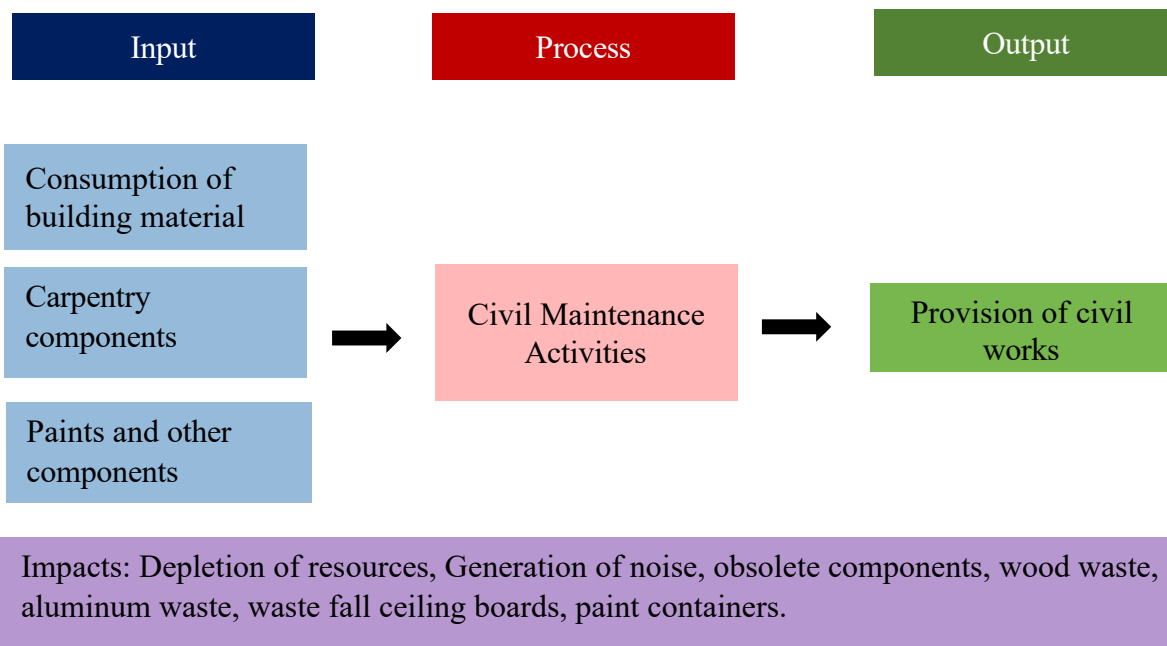


Fig11.Civil maintenance activities

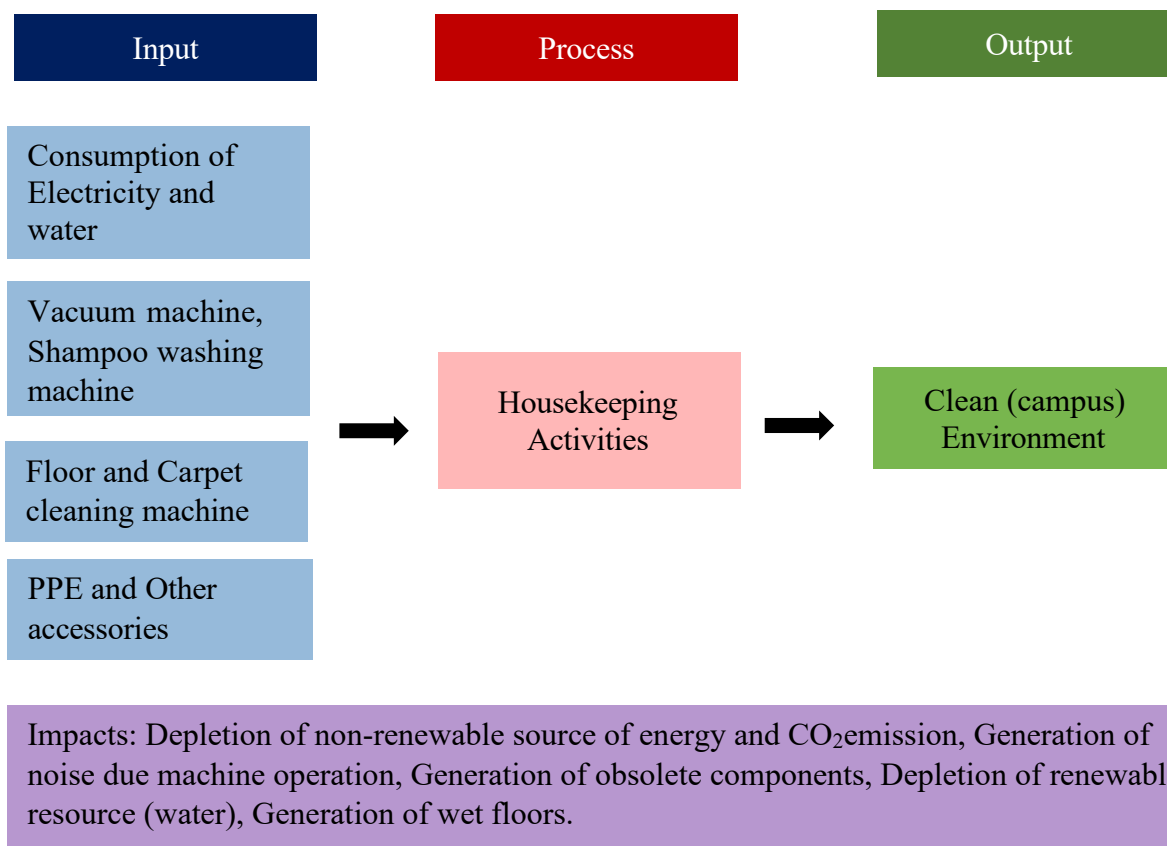
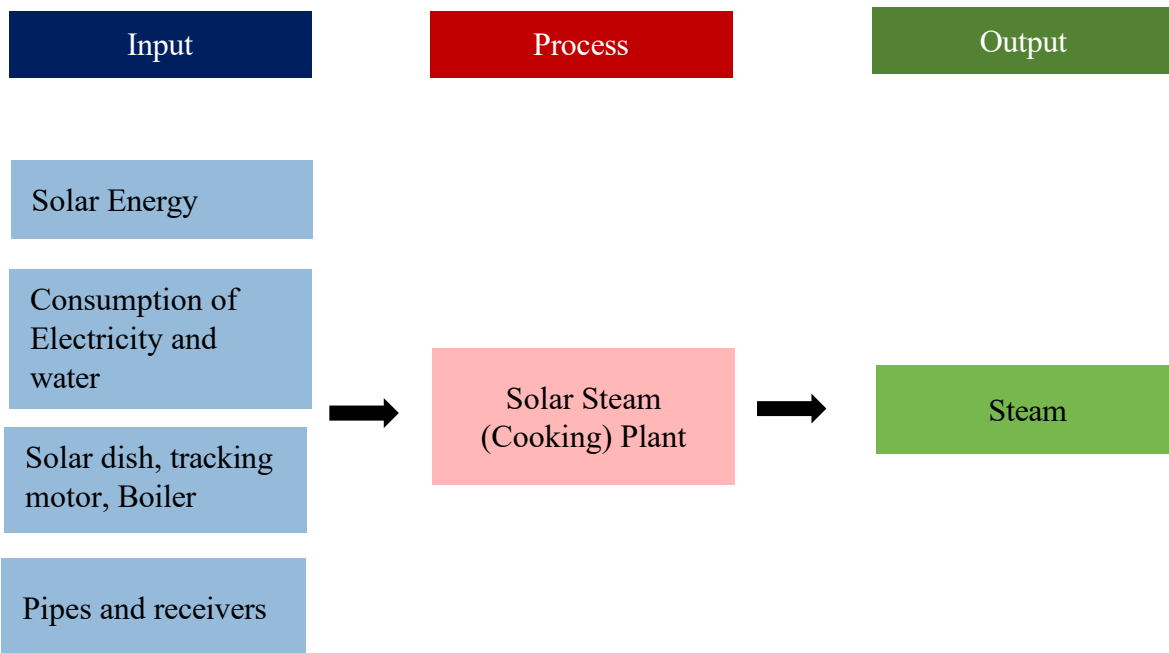
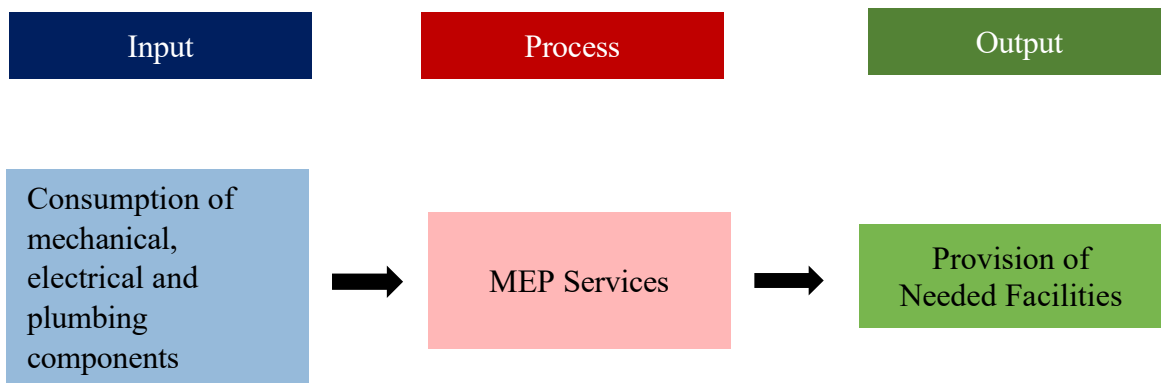


Fig12.Housekeeping activities



Impacts: Depletion of non-renewable source of energy and CO₂ Generation of obsolete components, Spillage of chemicals, Deposition of dust in solar dish.

Fig13. Solar steam plant



Impacts: Generation of obsolete components, Generation of damaged pipes, Depletion of resources.

Fig14. Mechanical electrical and plumbing services

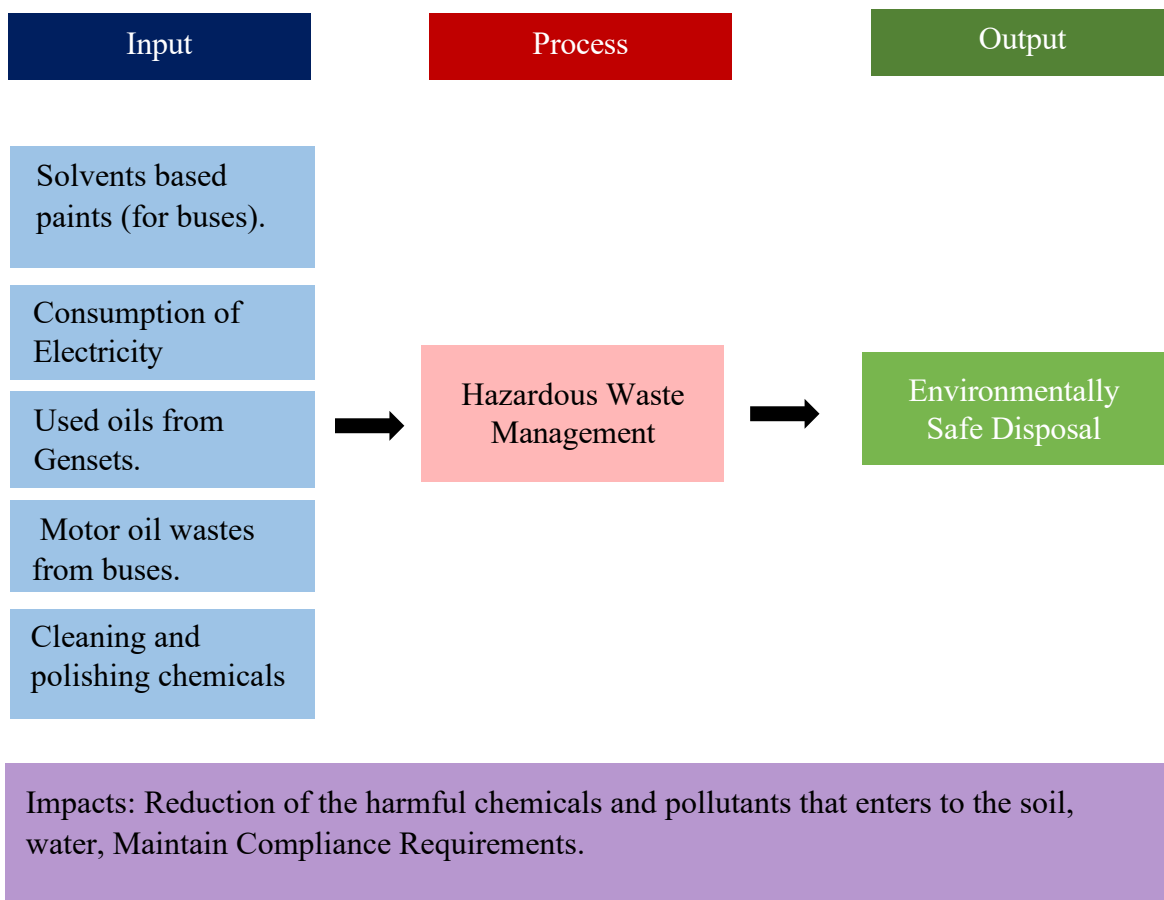


Fig15.Hazardous waste management

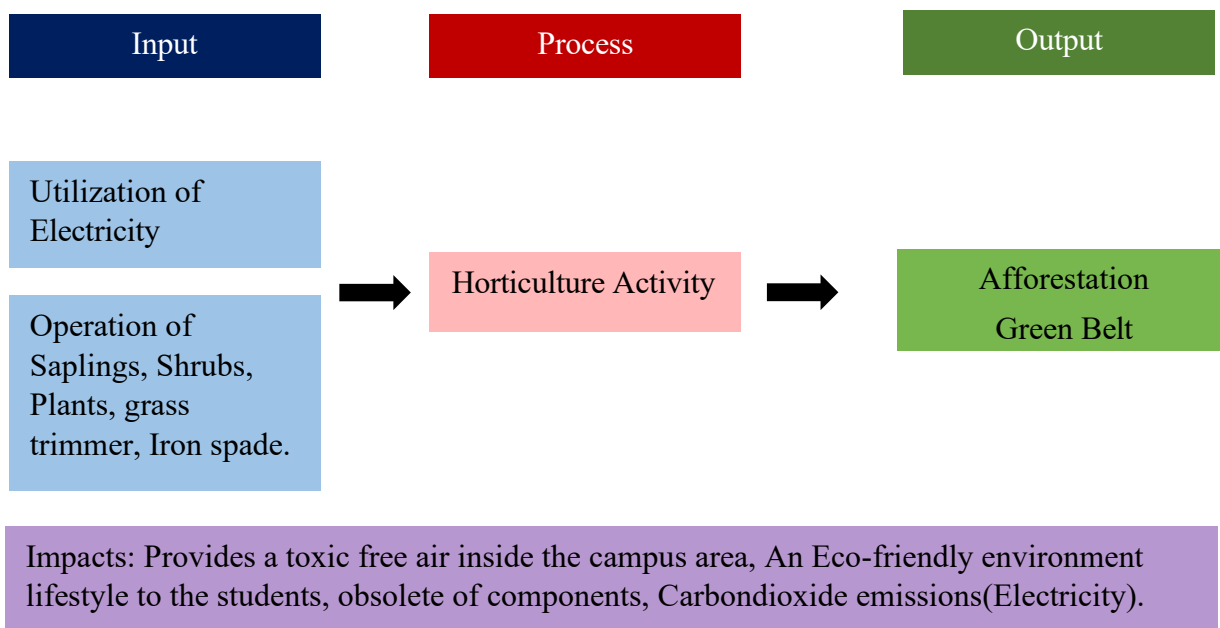


Fig 16. Horticulture activity

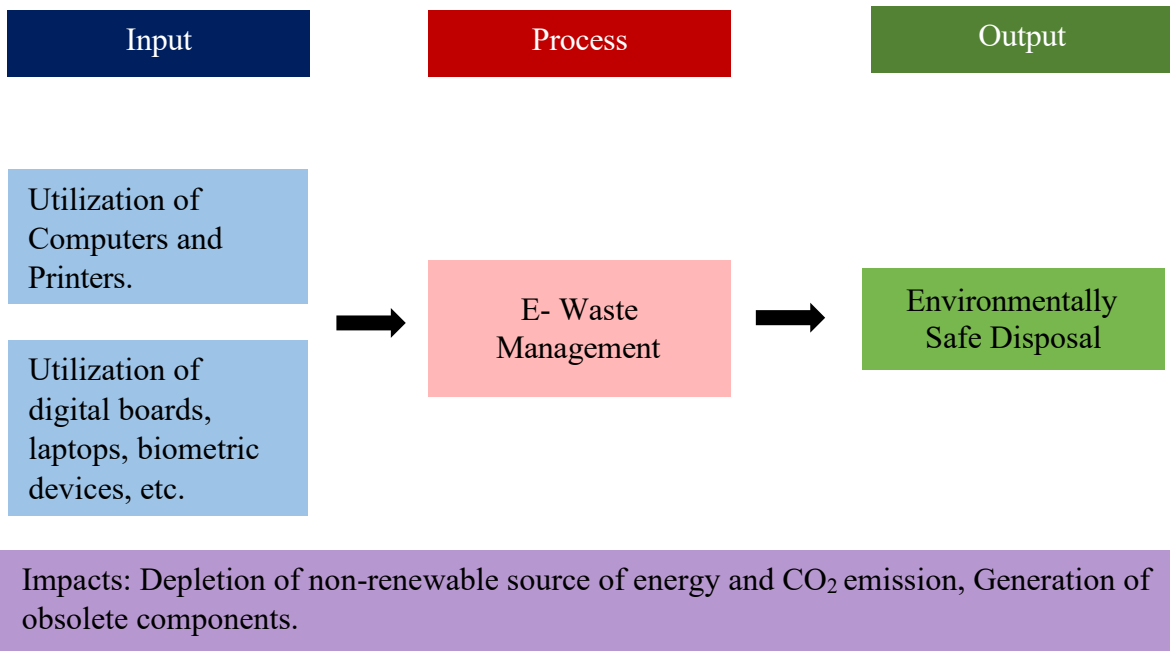


Fig17. E-waste management

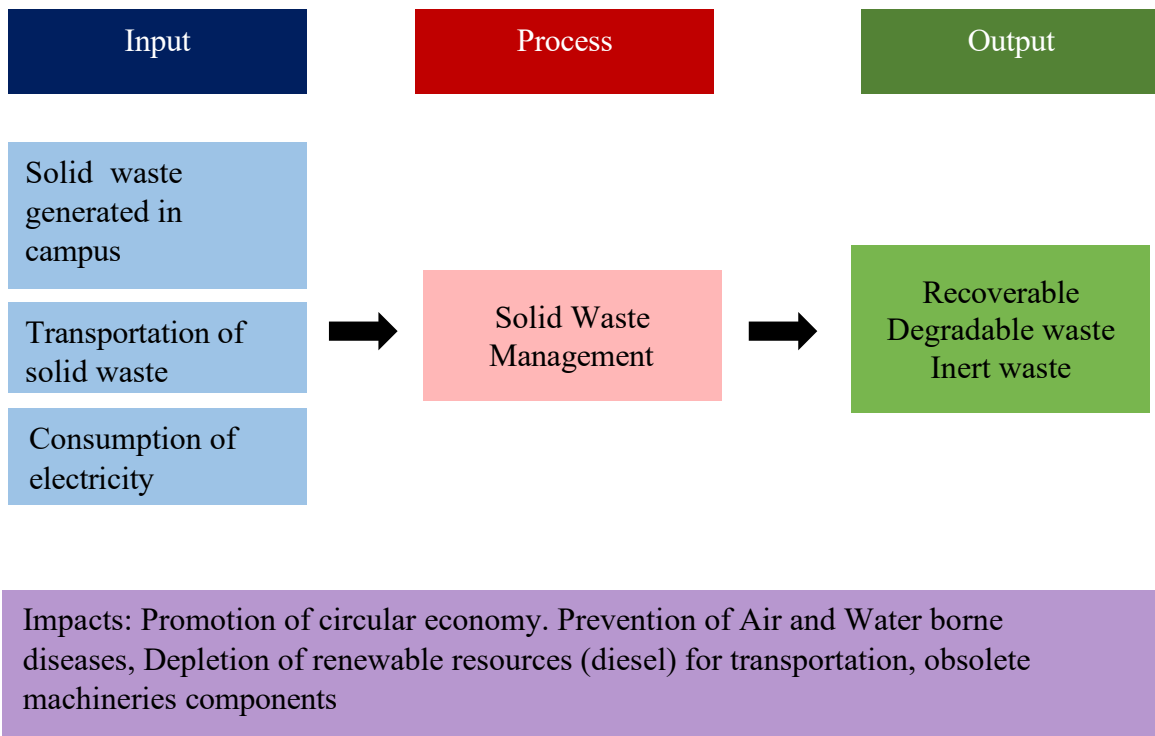


Fig18. Solid waste management

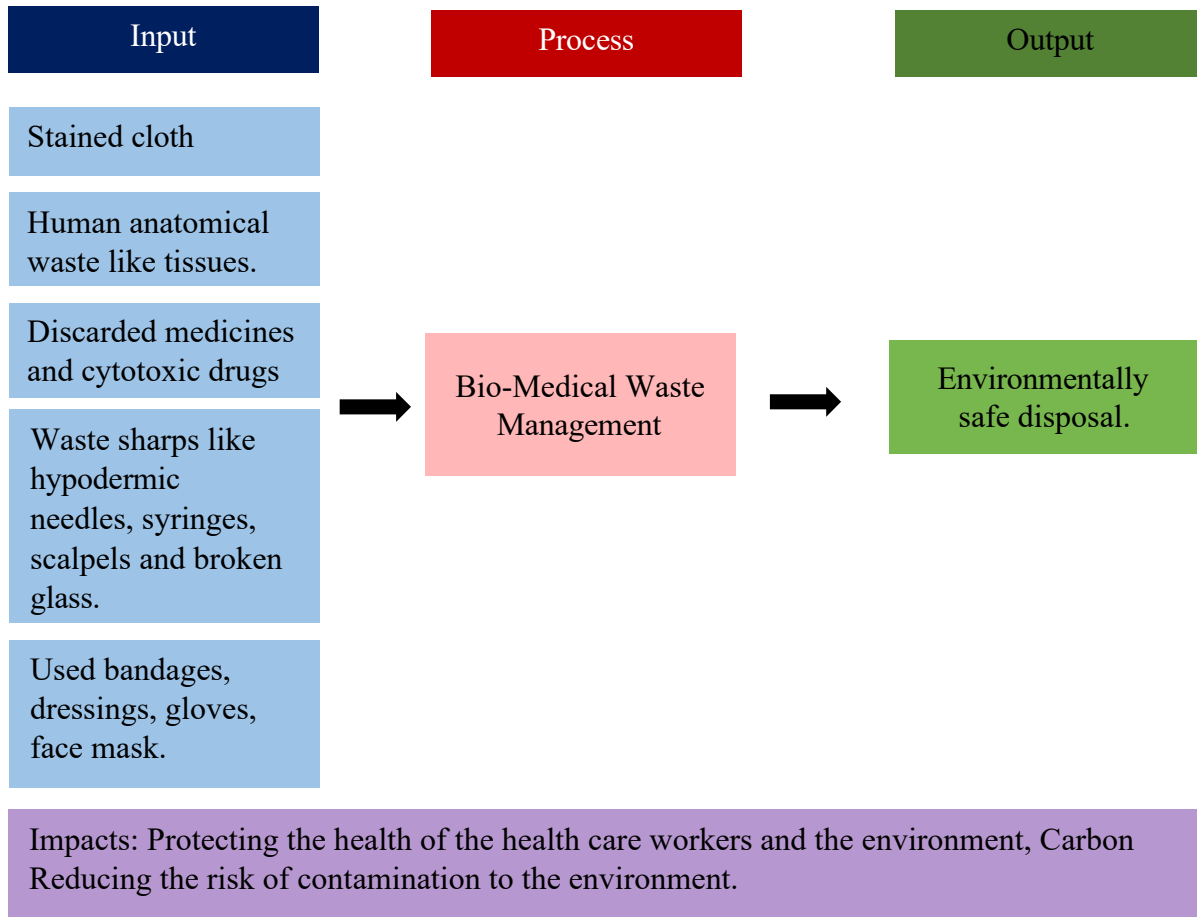


Fig19.Bio-medical waste management

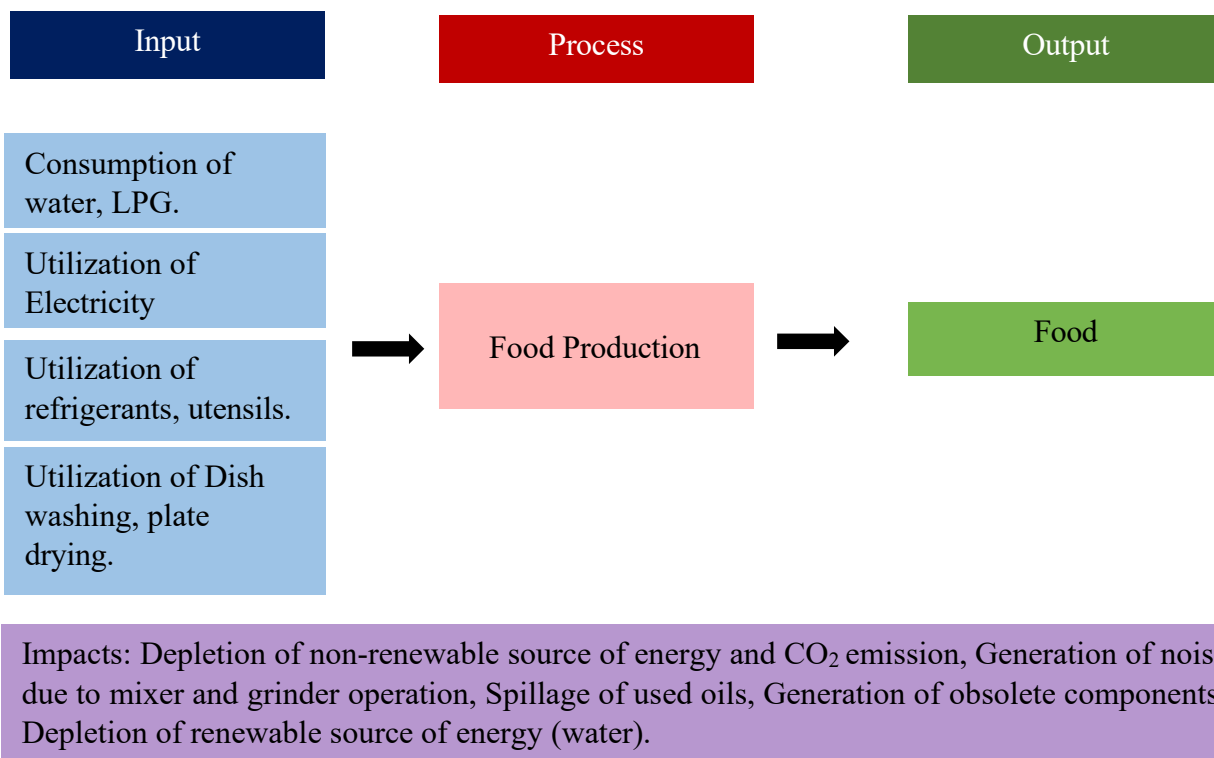


Fig20.Operationof food production

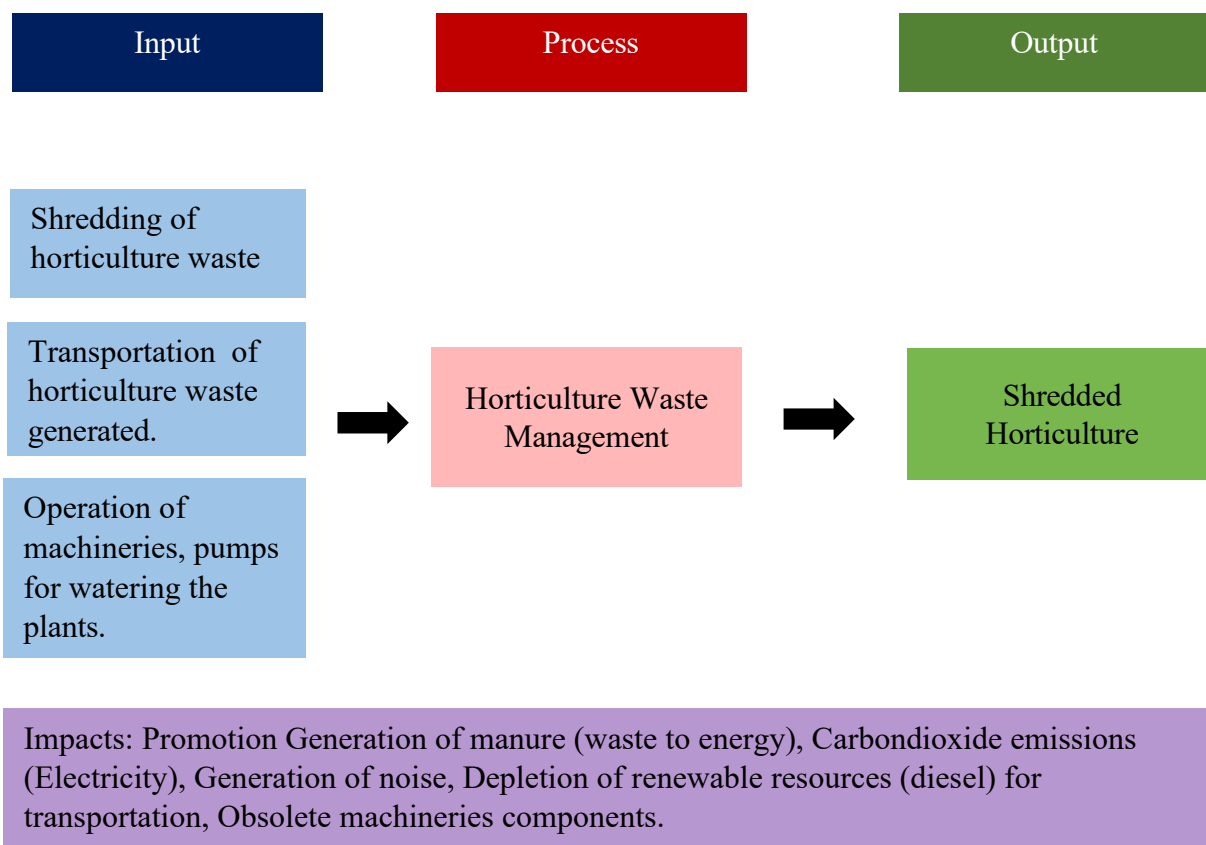


Fig21.Horticulture waste management

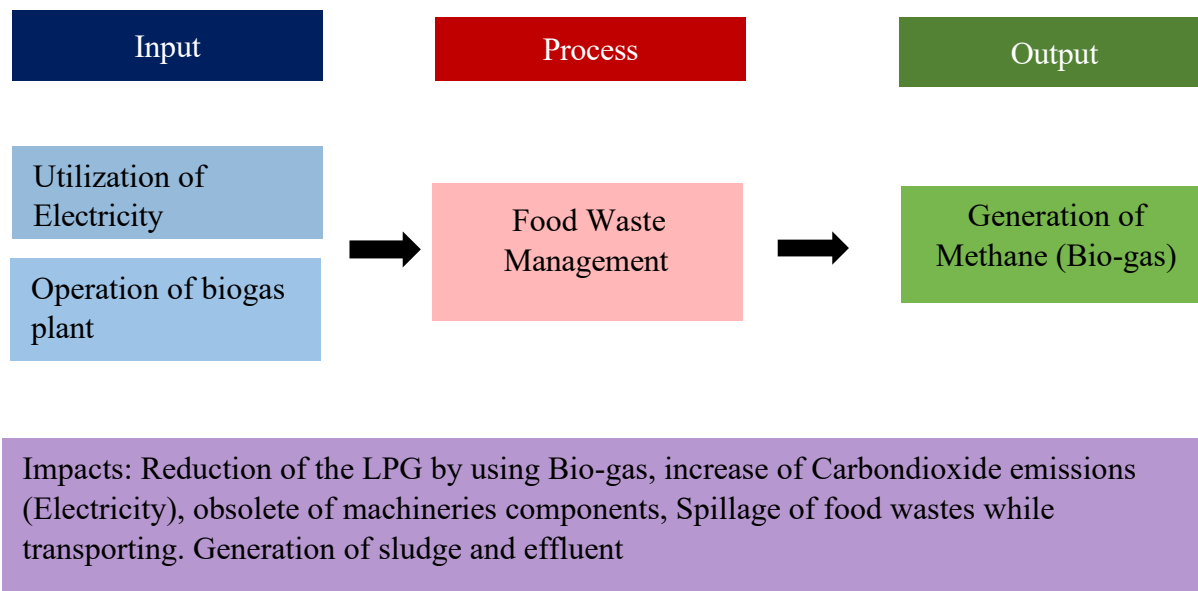
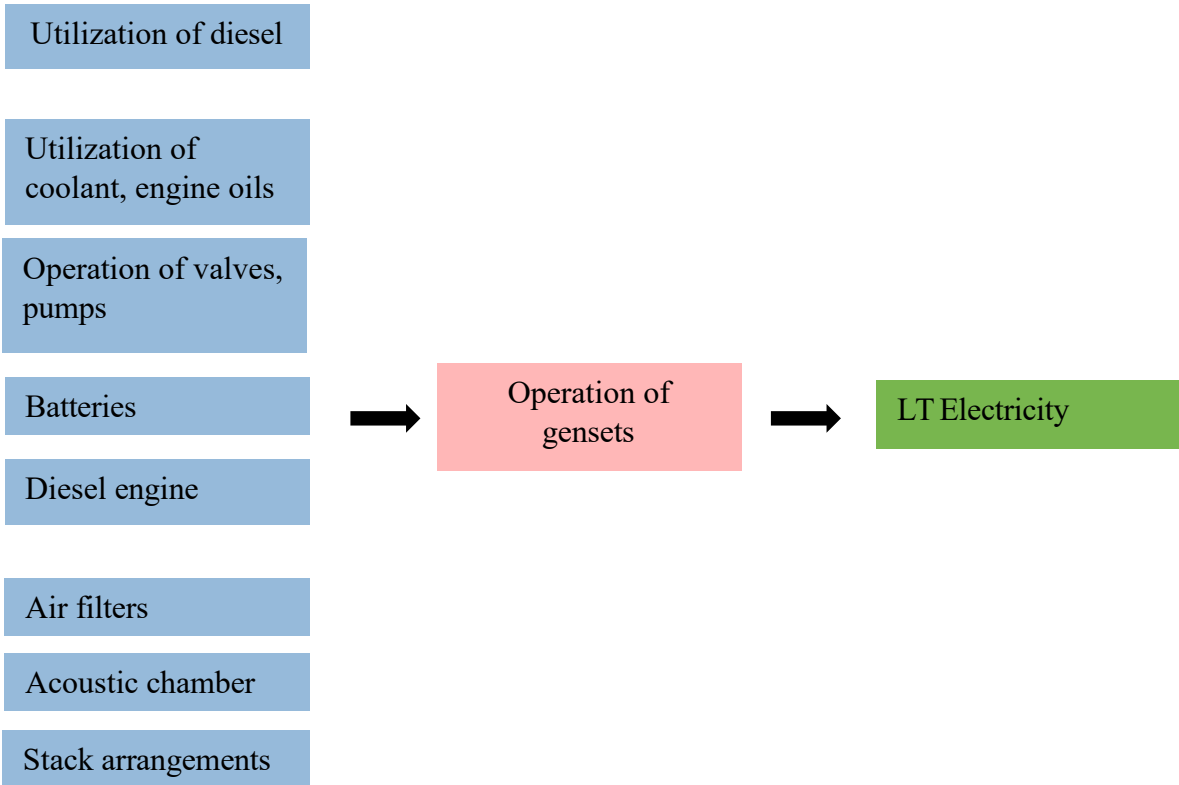
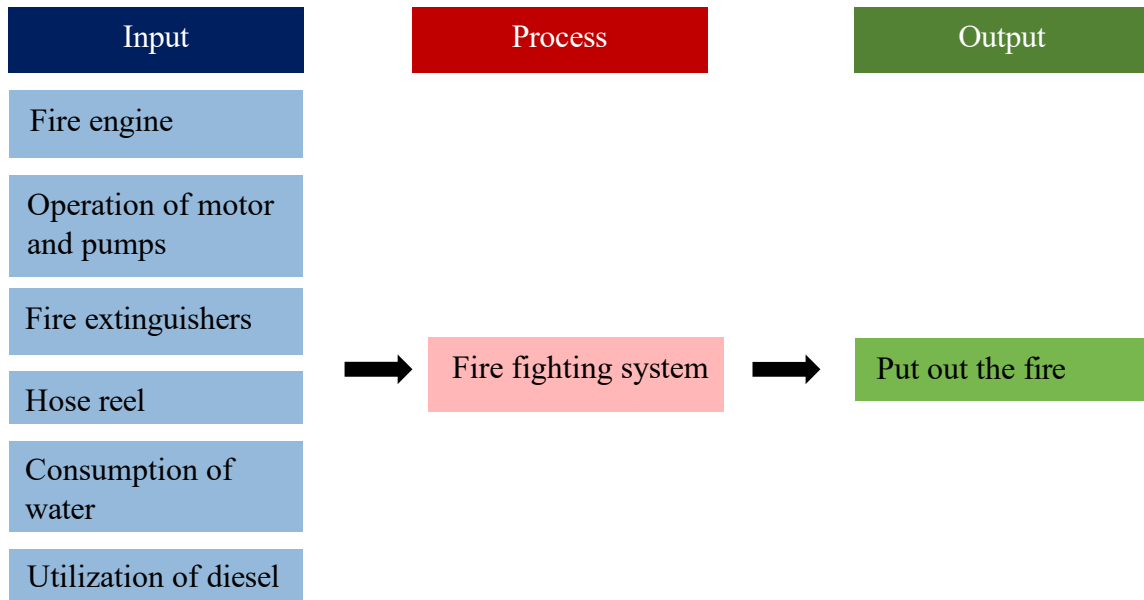


Fig22.Food waste management



Impacts: Used oils. Depletion of non-renewable resources, SO_x, NO_x, PM, HC, CO emissions due to burning of fuels, GHG emissions due to burning of fuels, generation of noise, obsolete filters, batteries, pumps and valves, other obsolete components

Fig23.Operation of gensets



Impacts: GHG emissions due to burning of fuels (diesel), SO_x, NO_x, PM, HC, CO emissions due to burning of fuels (diesel), Generation of used oils, Generation of hazardous waste due to the operation of fire extinguishers

Fig24.Firefighting system

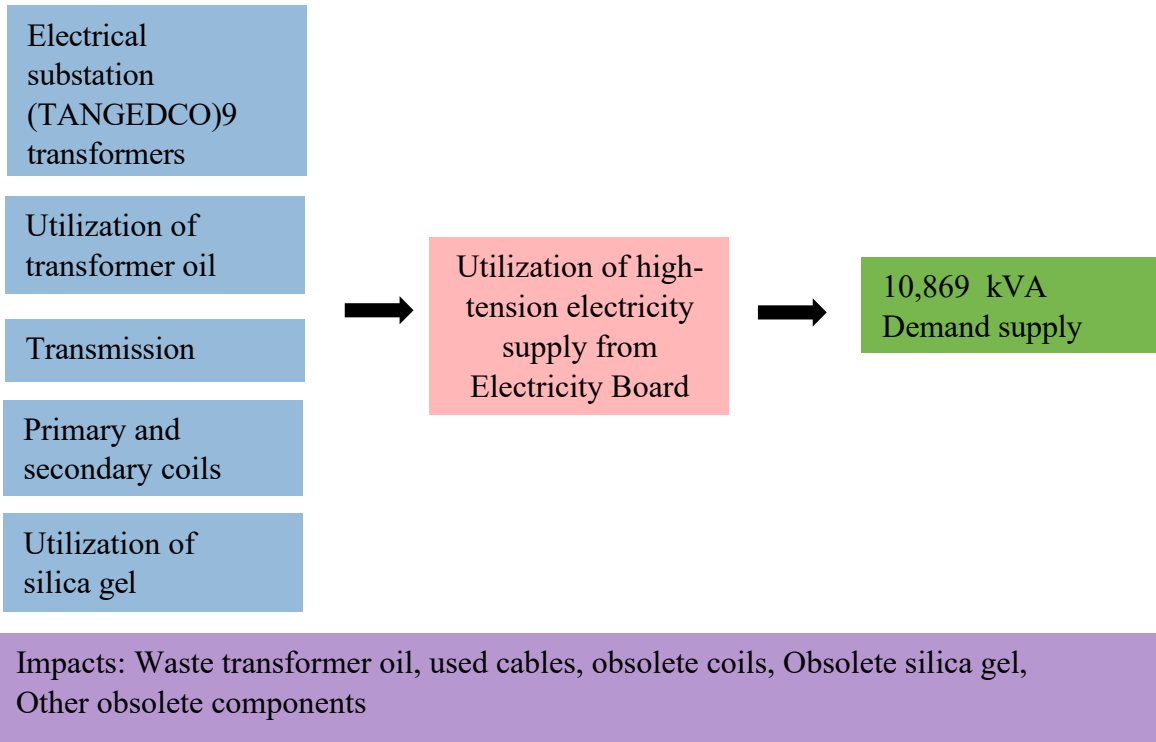


Fig25.Utilization HT electricity supply from EB

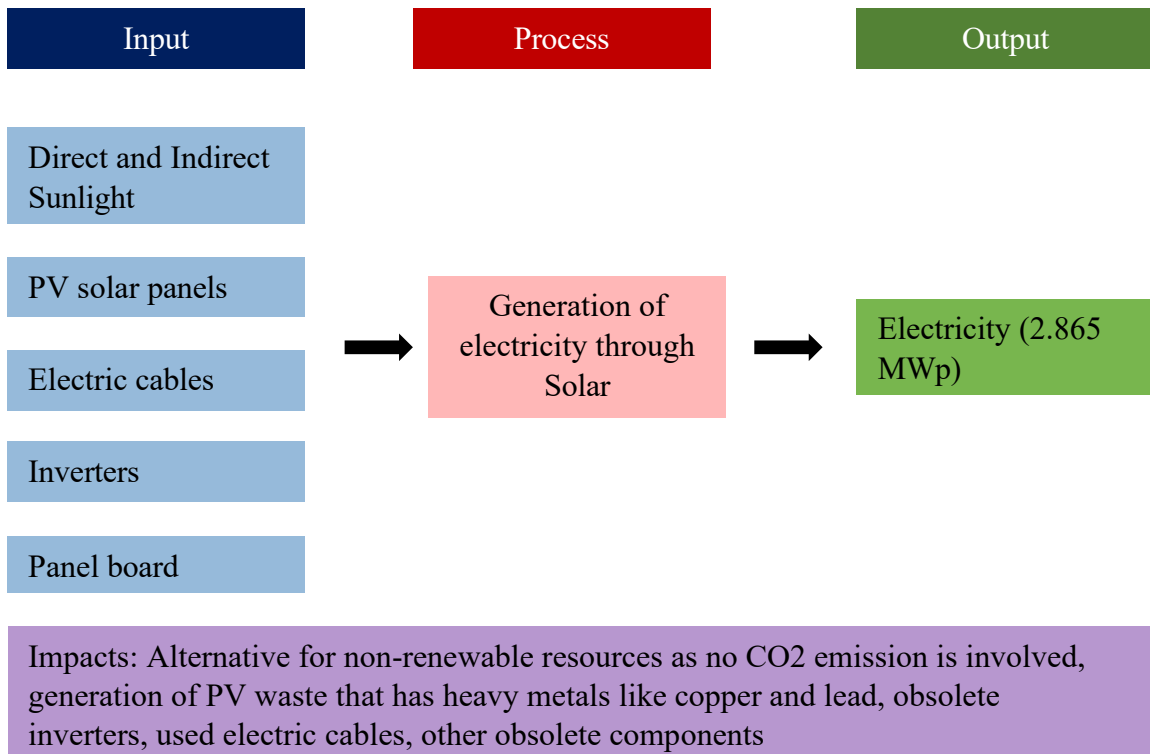
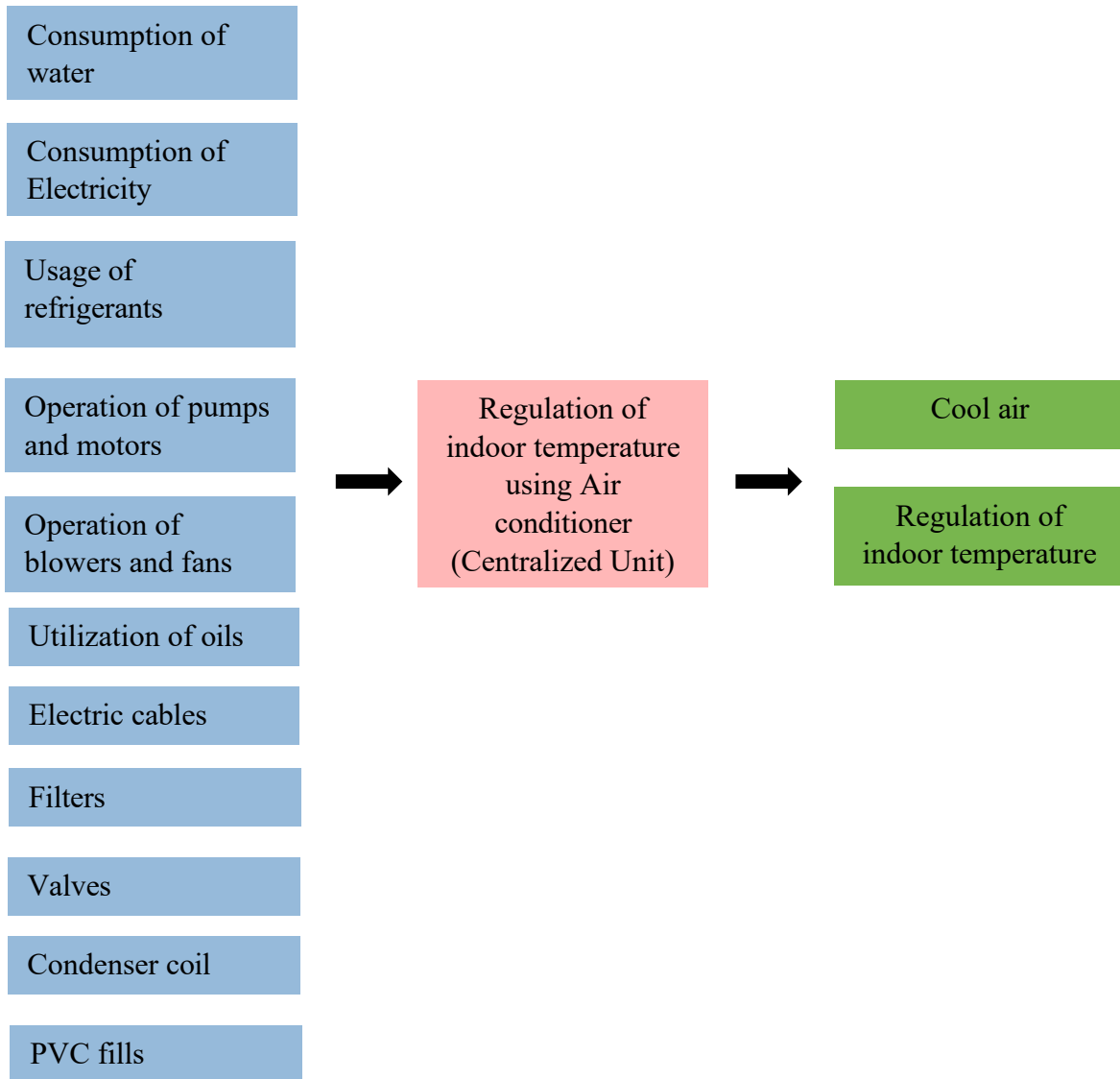


Fig 26. Generation of electricity through Solar



Impacts: Leakage of refrigerants, depletion of non-renewable resources, generation of wastewater, obsolete pumps, motors, valves, filters, used electric cables, obsolete fans and blowers, metal scraps (duct, condenser coils), obsolete coils, other obsolete components, water leakage, oil wastage, obsolete PVC fills

Fig 27.Operation of chiller plants

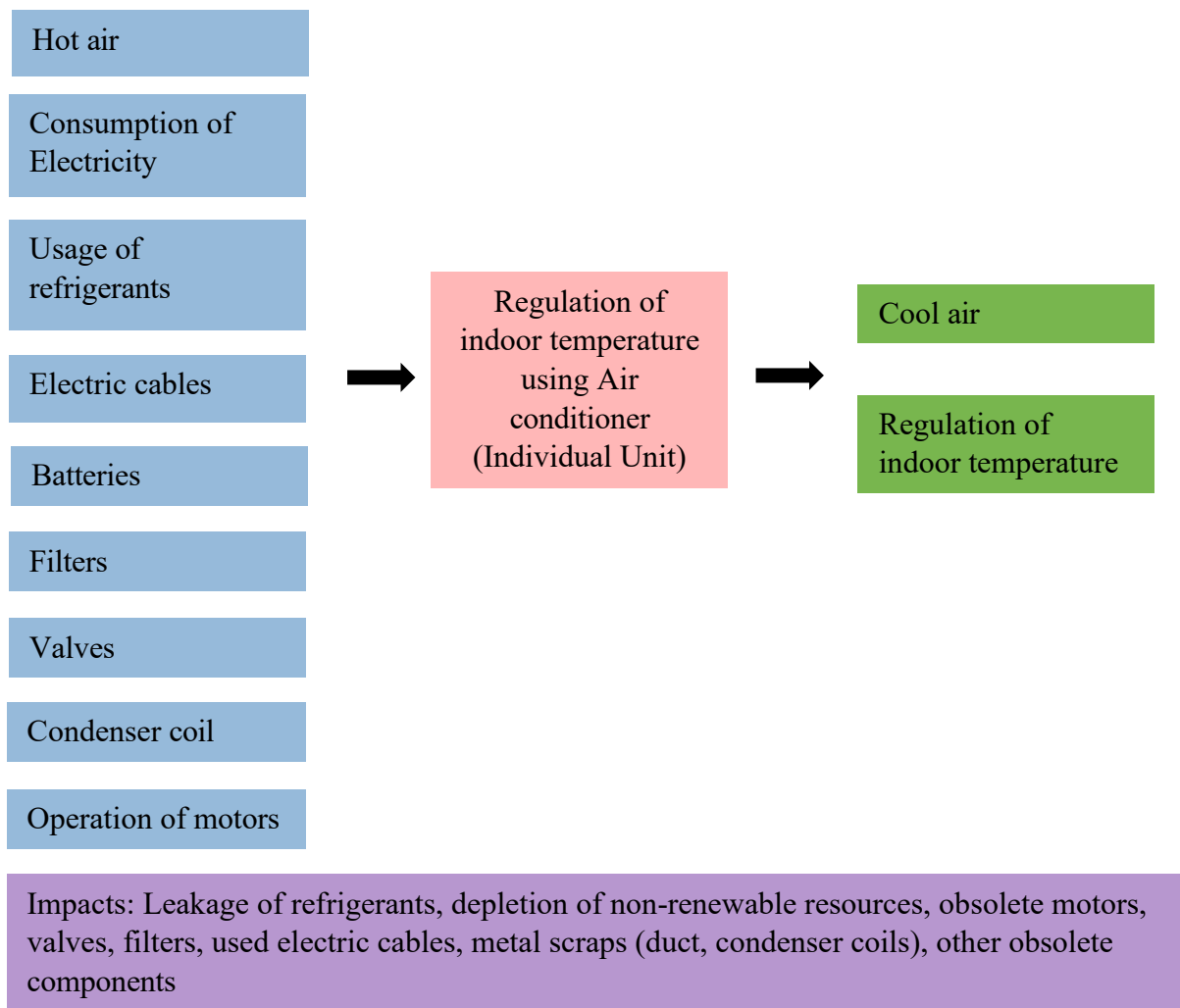
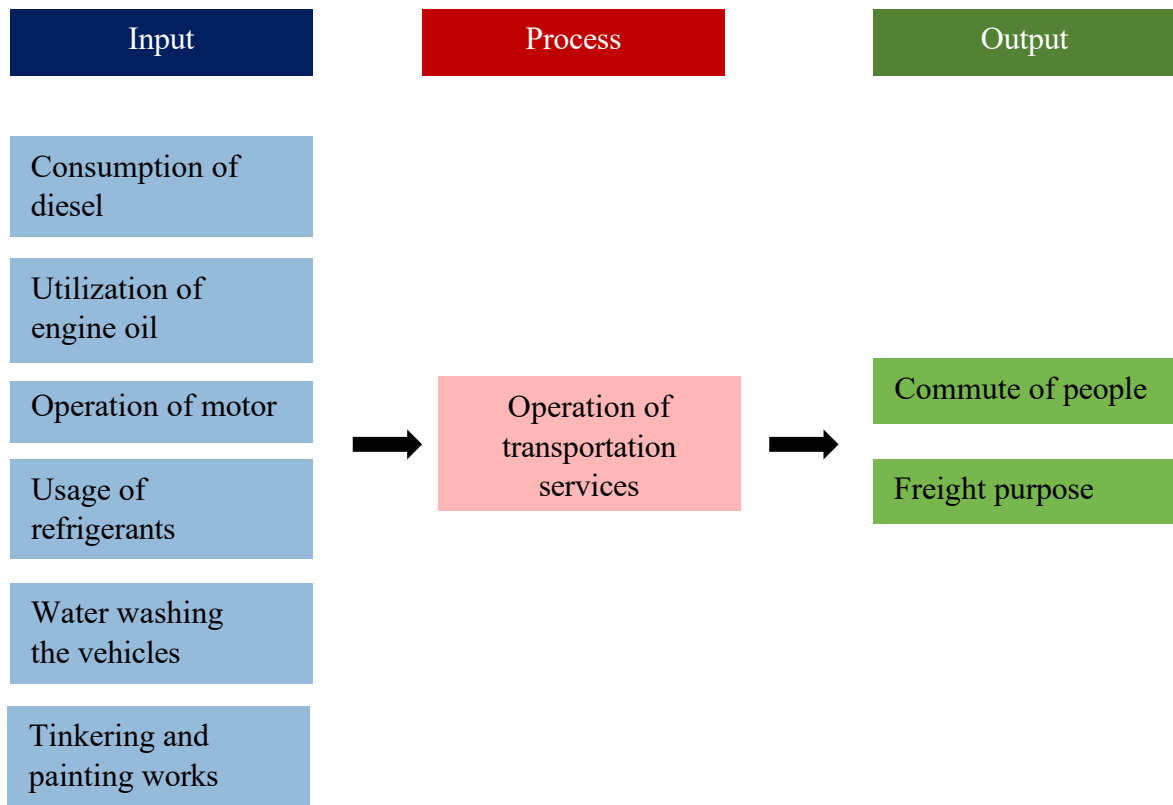


Fig 28.Operation of unit Air Conditioner



Impacts: Used oils, generation of noise, Improved mileage due to maintenance, generation of effluent during water wash, waste cans and tins, depletion of non-renewable resources, leakage of refrigerants that has high GWP, worn-out tires, release of air pollutants and GHG emissions due to burning of fuel, other obsolete components, release of VOCs into the atmosphere during painting works, obsolete body components (windows, doors, bumpers) and obsolete motors

Fig 29. Operation of transportation services

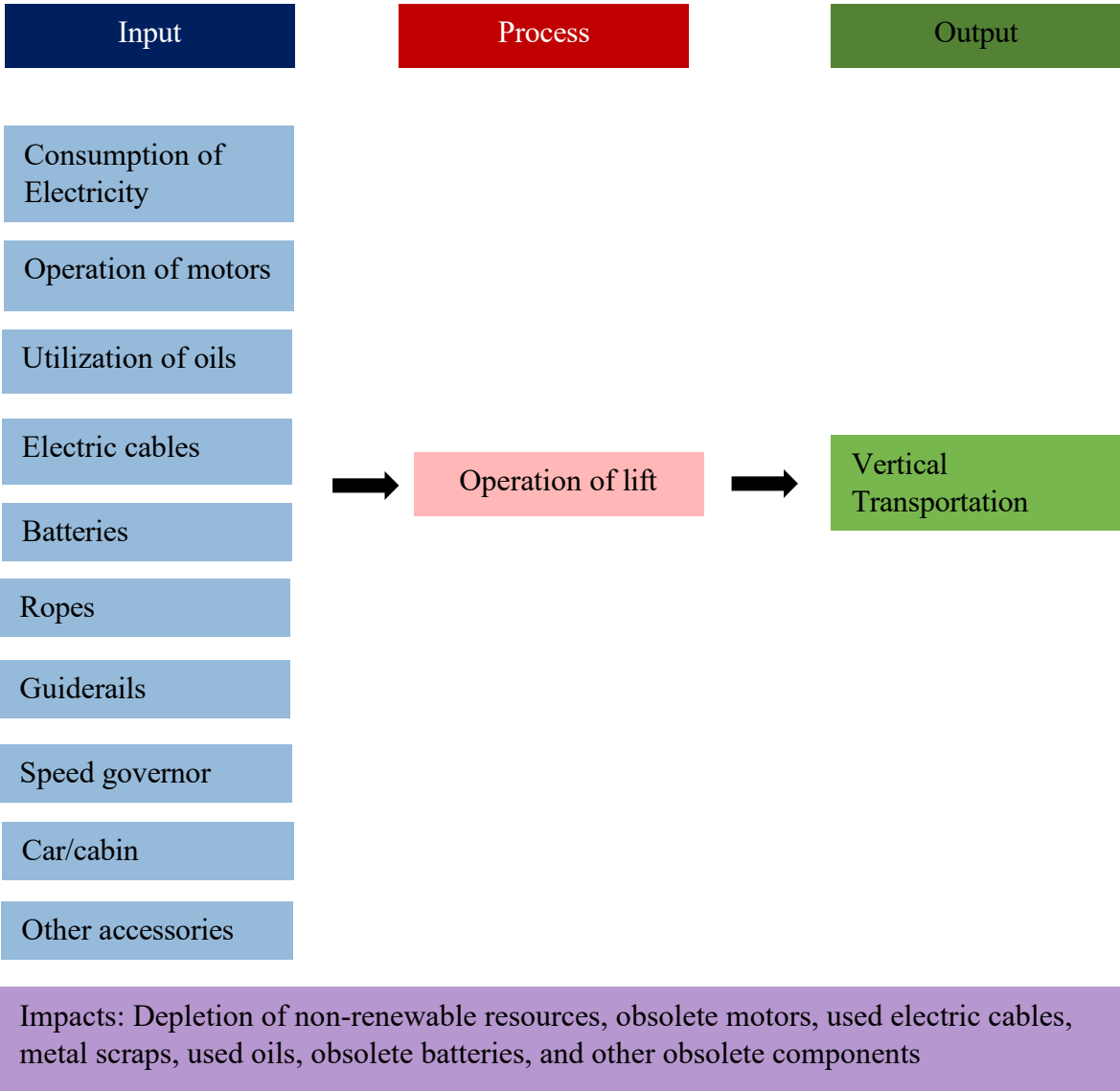


Fig 30. Operation of lift