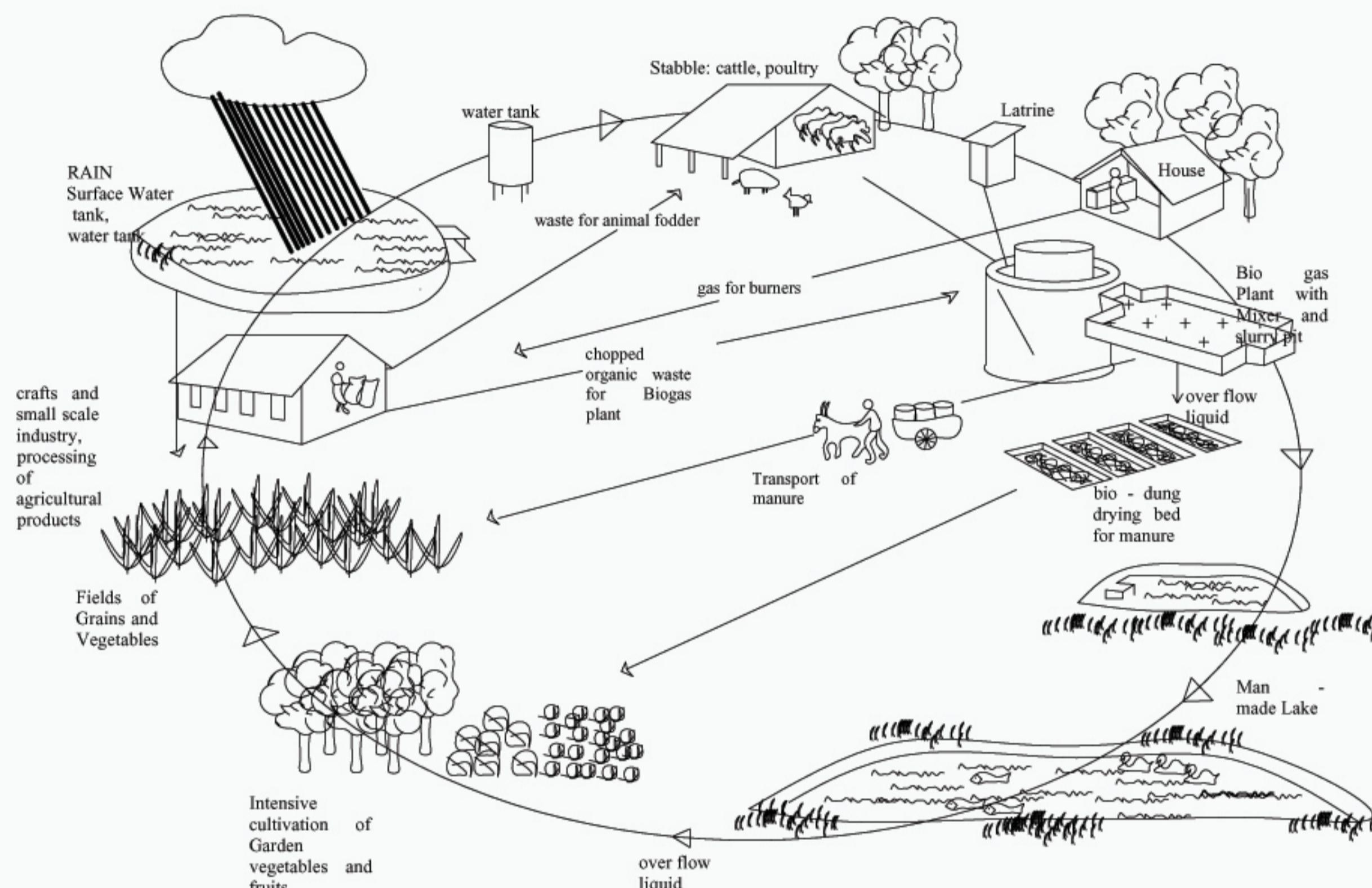


INTEGRATED HABITAT - FARM SYSTEM



RAIN WATER HARVESTING:

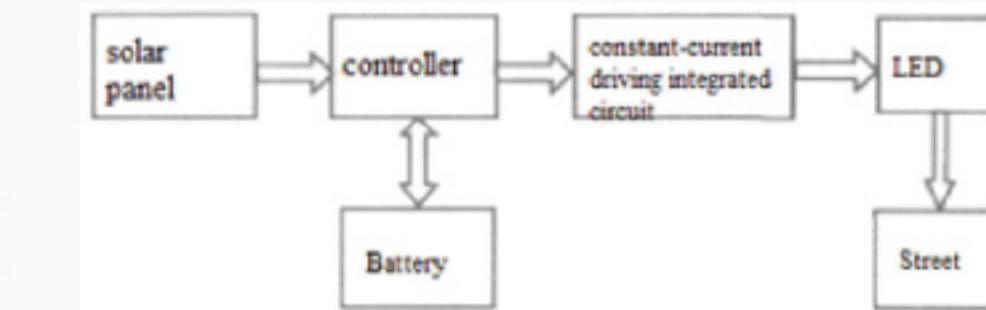


- The existing site itself consists of a contour with lowest points of 6 - 7m.
- The water collected from storm water drains is discharged at the lakes which is also the lowest points in the site.
- This helps in regenerating the ground water table and this water is also used for agriculture.

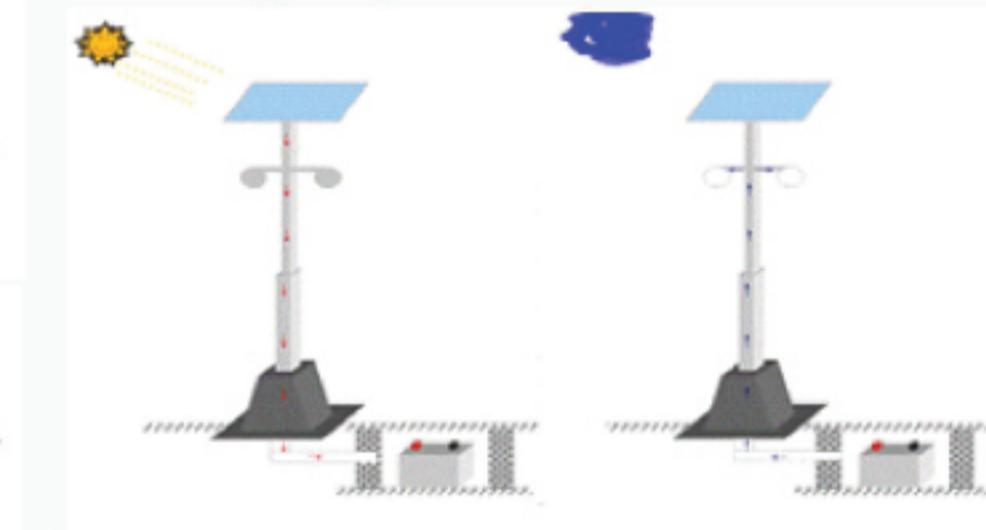
SOLAR POWER



Flow chart

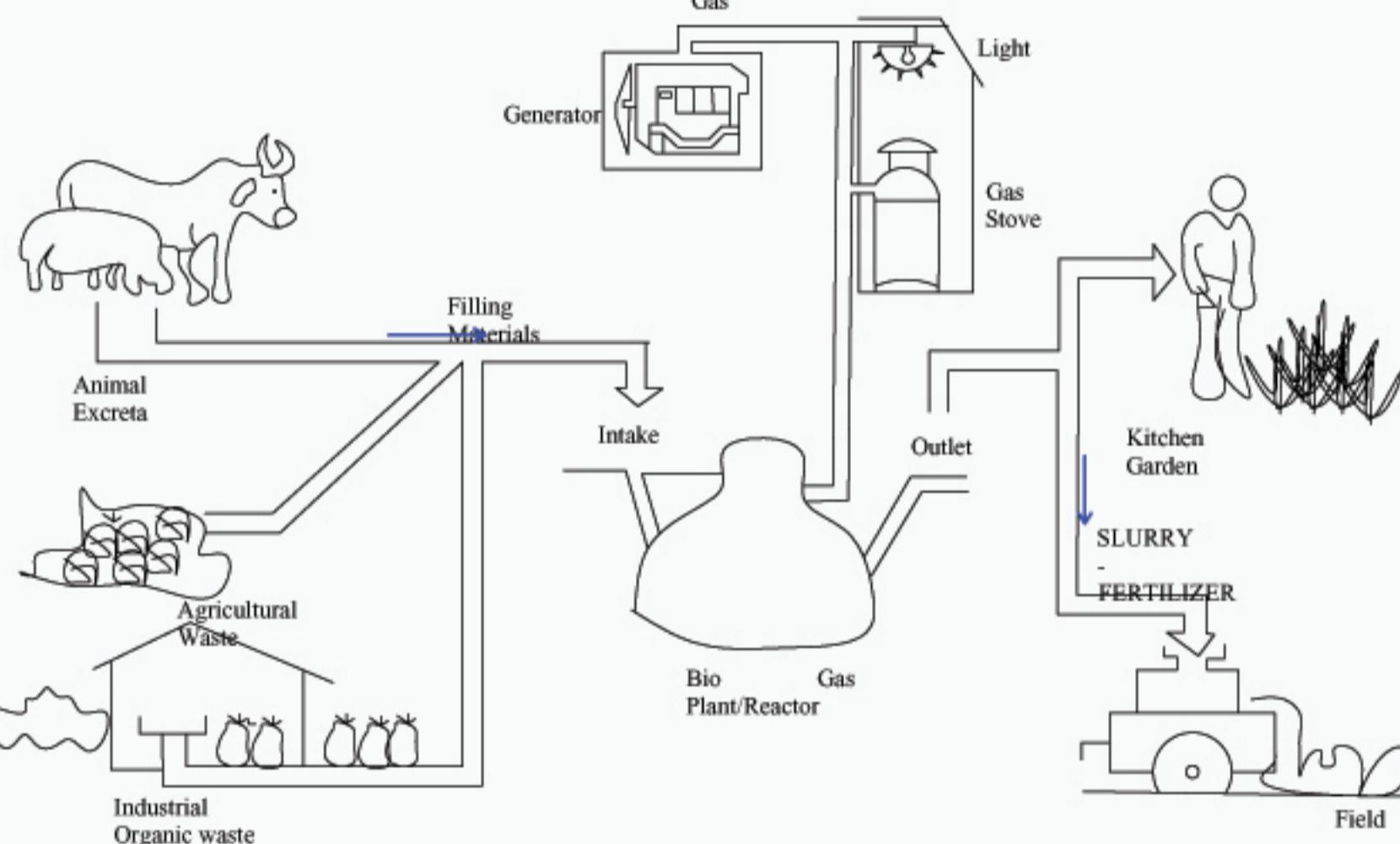


Street lighting for Solar

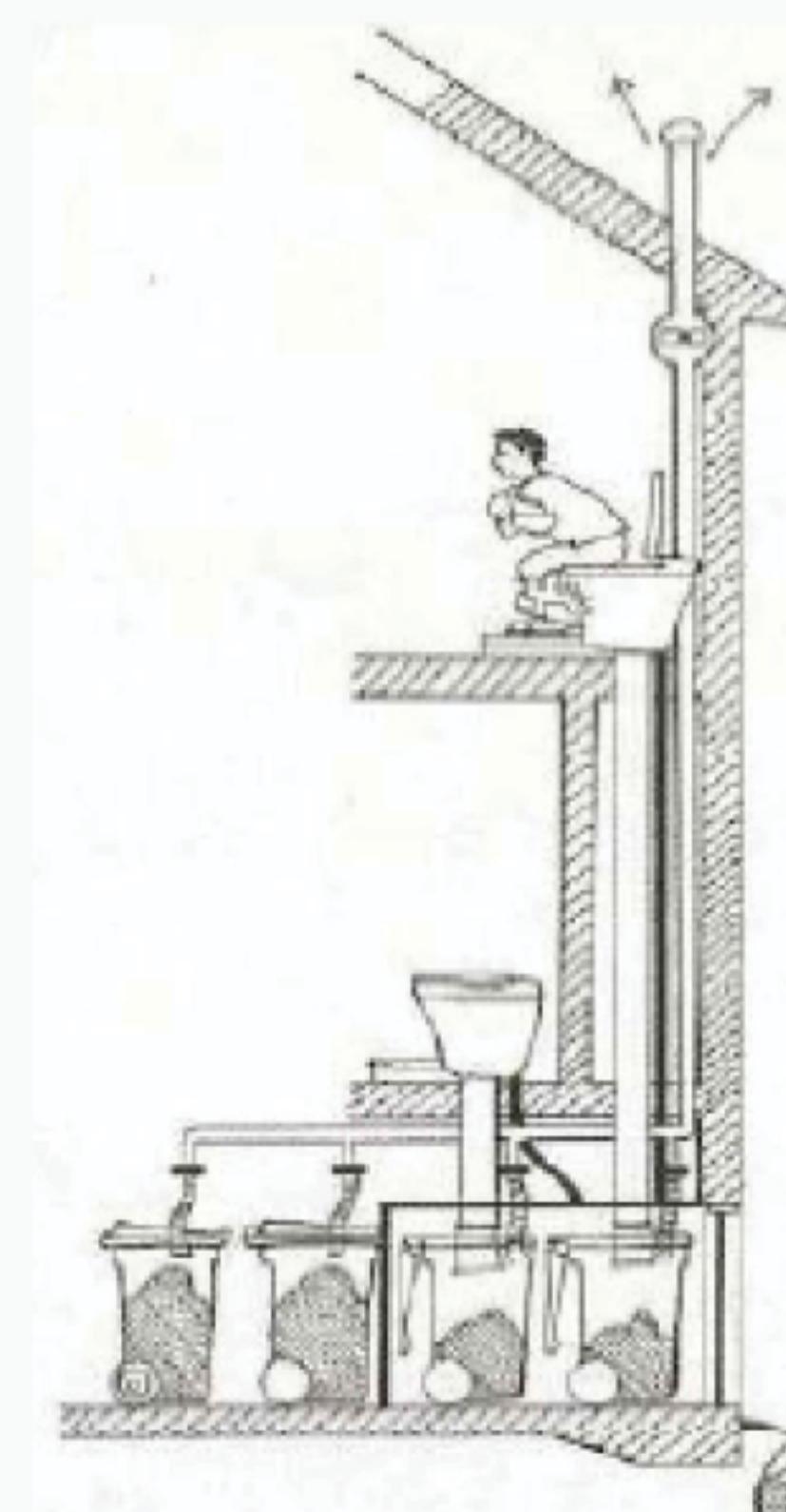


Cross section of contours

BIO - GAS TECHNOLOGY:



ECO - SANITATION IN MULTI STOREYED BUILDINGS



Urine Collection

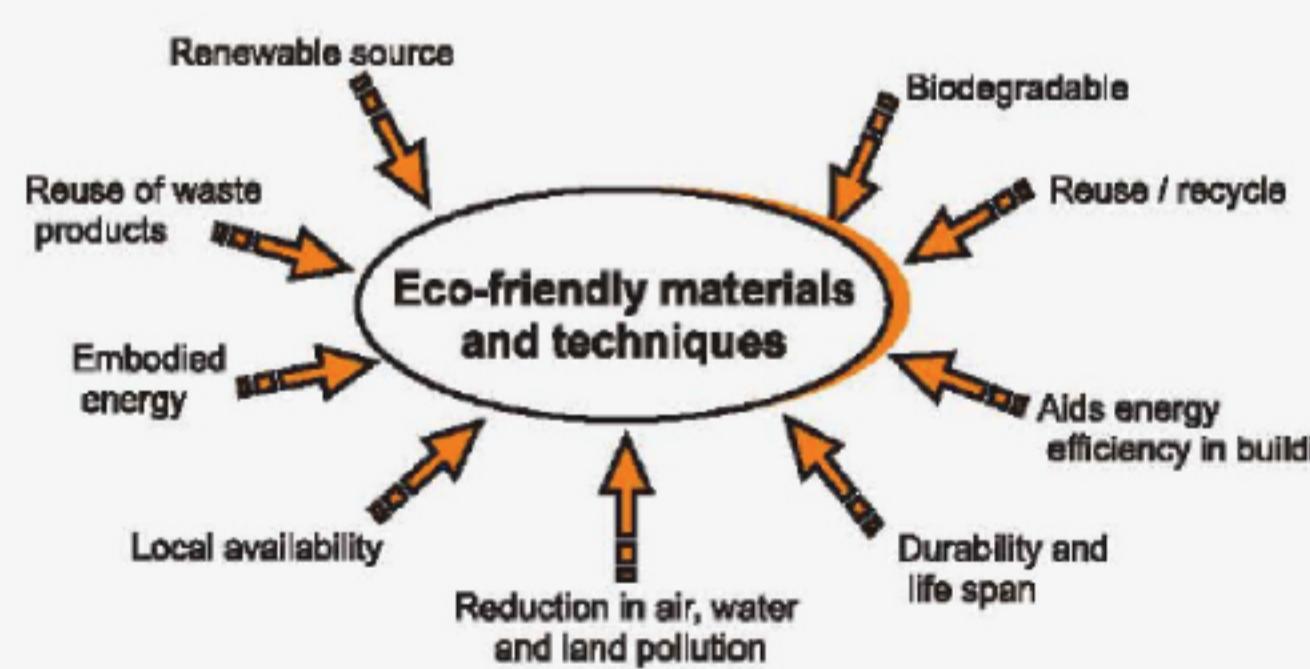


Faeces Collection

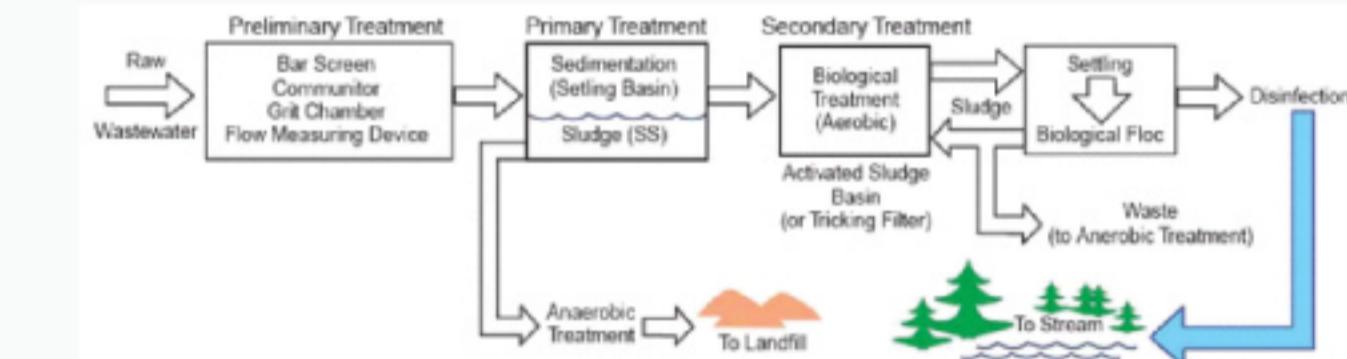


PROPERTIES OF ECO - FRIENDLY MATERIALS

Properties of eco-friendly building materials and techniques



Waste water treatment



Merits of Ecosan:

- Treats human excreta and urine as a useful resource rather than as waste.
- Environmental friendly and prevents pollution caused by conventional sanitation systems.
- No water is needed for flushing (an individual saves 6-8 litres per day).
- No additional treatment process/infrastructure is needed to treat the waste collected.
- Reduces expenditure on chemical fertilizer as compost of excreta and urine is rich in NPK (i.e. Fertilizer needed to grow food for one person can be met by reusing his excreta and urine collected in an Ecosan toilet).
- Prevents pollution caused by chemical fertilizer for agriculture. Enriched compost and urine increases the yield of crops when used as fertilizer.



Name of student : Lakshmi Gayathri
Hall Ticket No: 15011NB005
Subject: Design Thesis 2017
Drawing Sheet Name: Site Plan
Scale: NTS

Guide: Prof. Dr. S. Kumar

Sheet No.: 19



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