

### Concept Presentation School Building Renovation At Jorpati

### **Existing Scenario**



**Unfinished interior layout** 



Water logging inside building



**Unfinished floor and railings** 



Haphazard elevation, different window sizes



Unfinished exterior, broken windows & door,absence of floor slab in 1st floor



Broken plaster works, no grills



No proper planning of floors



**Use of different materials** 

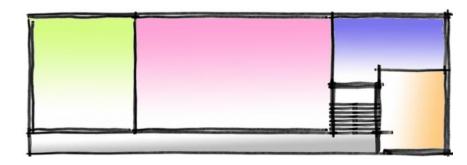
## Scope of Renovation



## Floor Zoning

#### **Ground Floor**

- Kitchen/ Dining
- Classrooms
- Toilets
- Computer Lab



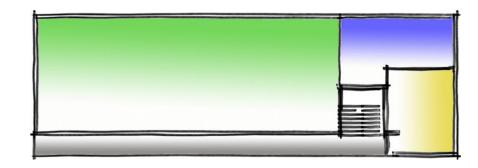
#### **First Floor**

ClassroomsLibraryToilets



#### **Second Floor**

Girls' DormitoryStudy AreaToilets





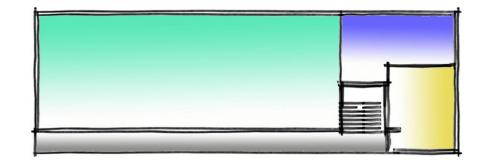
## Floor Zoning

#### Third Floor

Boys' DormitoryToiletsStudy Area

#### **Fourth Floor**

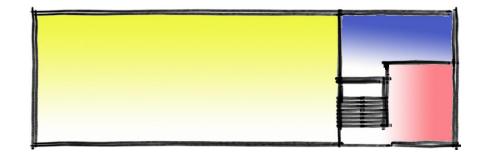
SuitesMeeting RoomOffice (Staffs)





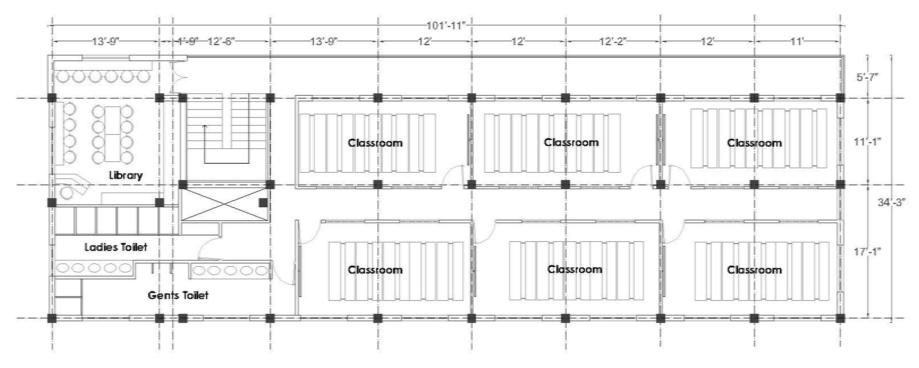
#### **Fifth Floor** Principal's Office

TerracePuja Room



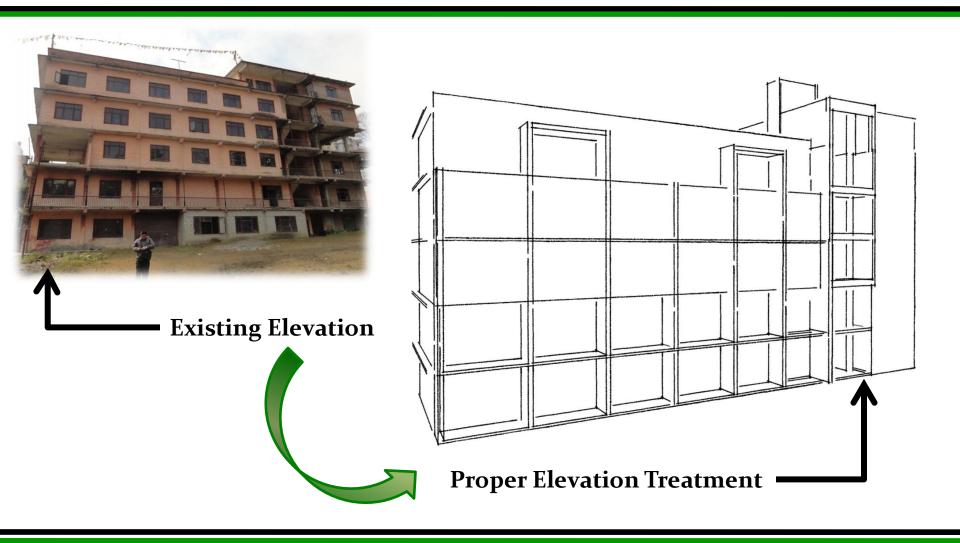


#### **Example:**



Typical Plan with Classroom







- •Floor finish
- •Plastering
- •Painting
- •Change Door/ Windows frames and shutters
- •Add grills in windows
- •Wall additions or Removal/ Change of railings, etc. as per
- design
- •Electrical layout



•Lower ground level to curb water logging inside ground floor

•Addition of floor slab in first floor

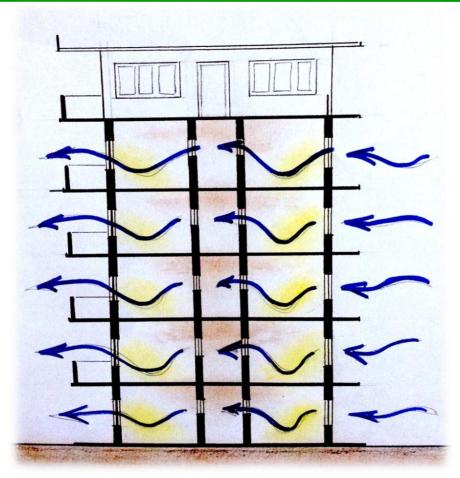
•Provision of Toilet in each floor





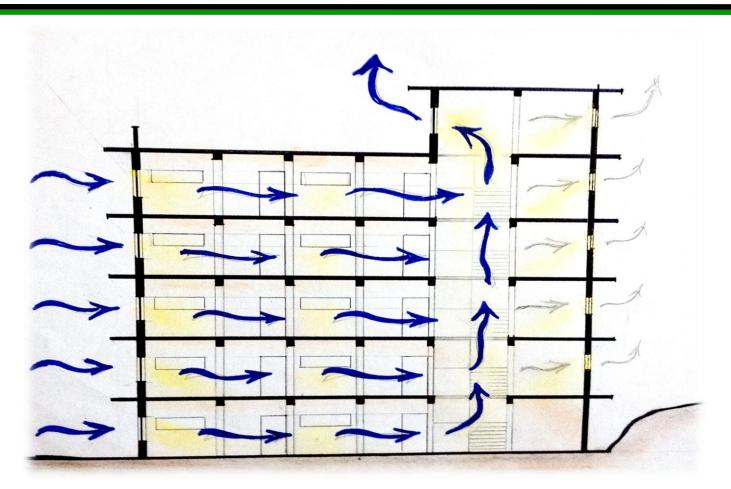
## Green Design Features

### Gham Power Natural Ventilation



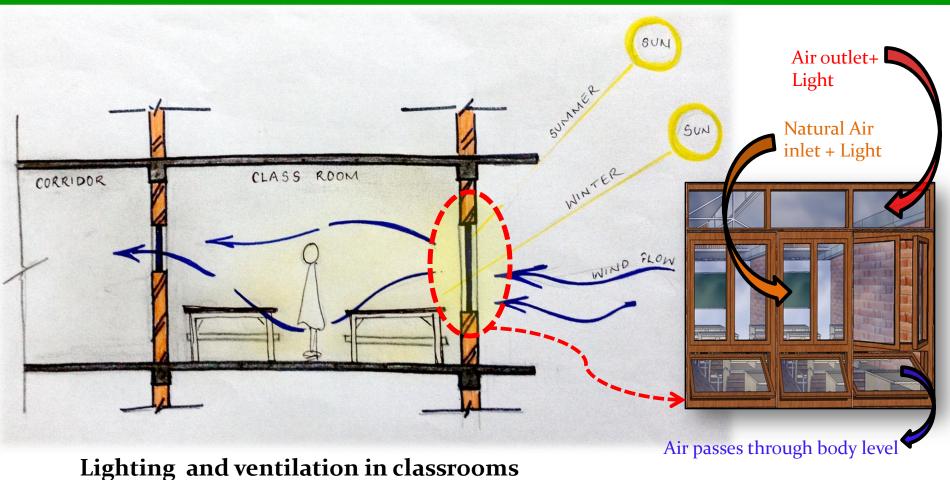
**Cross-Ventilation Design** 





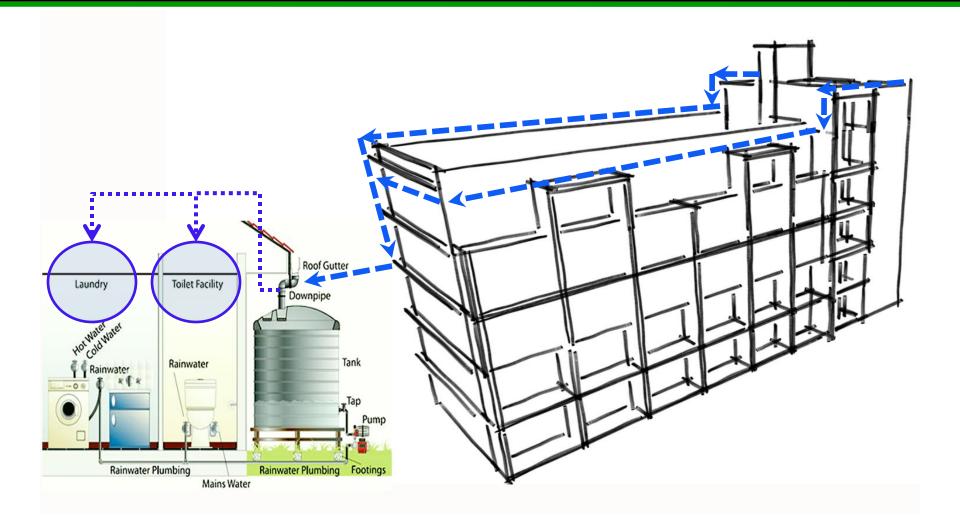
Stack effect through light well behind staircase

# Gham Power Lighting and Ventilation

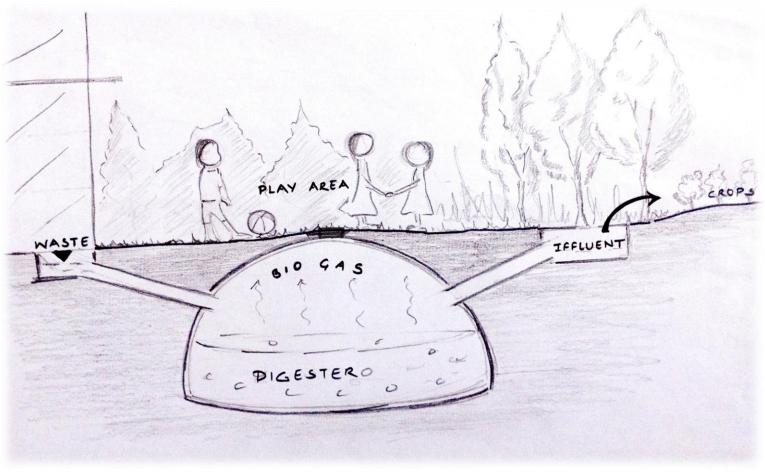


Typical window design for proper ventilation





# Gham Power Provision of Biogas



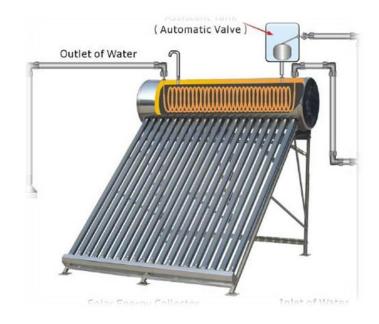
Underground Biogas system with Play area for students on top





30 Units of Solar panels for Electricity, 24 batteries, 2 charge controller and 1 inverter •CFL Lights (70) •LCD TV (6)

- •Computers (37)
- •Laptops (5)
- •Printer Water dispenser (1)
- •Two door fridge (1)



Use of solar thermal for heating water for residential use in school Thank You!