

FIRST CLASSROOM BLOCK

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Spring Dales Public School – Mulbekh – Ladakh – Jammu and Kashmir

BRIEF PROJECT DESCRIPTION:

The SDPS Campus design is:

- **fully based on passive solar energy:**
 - passive solar heated buildings (both day and night use buildings)
 - passive solar water heating
 - solar panels to generate electricity
- **using an insulated local roller blinds in front of thermal walls**
- **using an insulated rammed earth double walls**
- **using a double glazing**
- **using an improved typical ladakhi compost toilets**
- **using a local construction techniques and materials mixed with an influence of modern technologies**
- **using a local irrigation canal system, both ground and improved underground, for greenery inside the campus**
- **is dealing with waste and brown water management**
- **reducing campus carbon footprint to its possible minimum**



Current campus view



Campus design

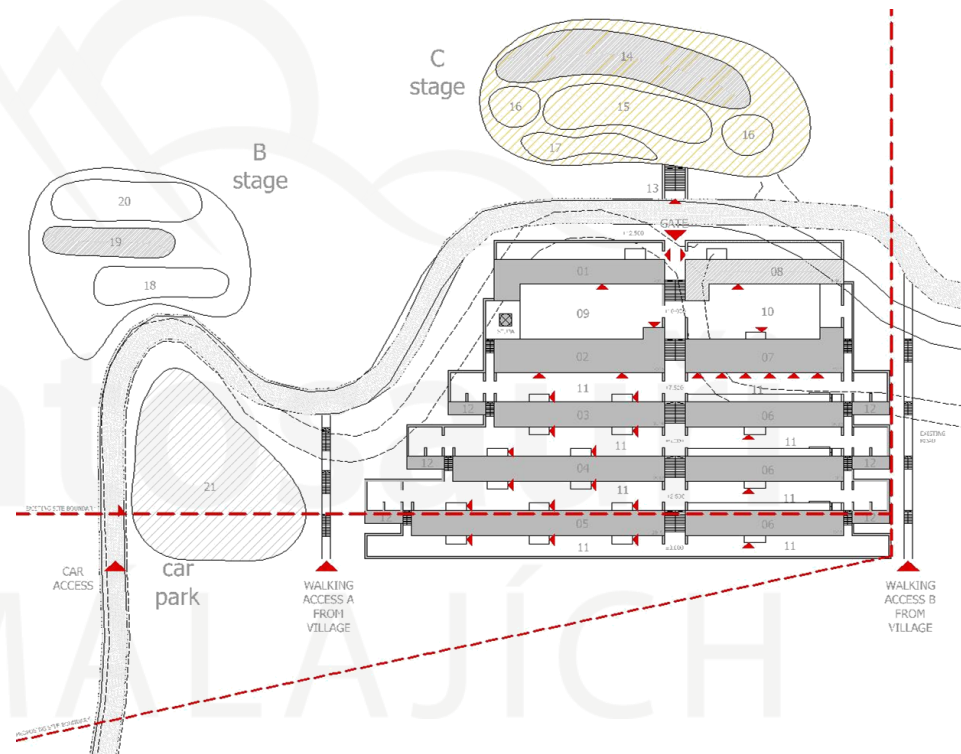
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Spring Dales Public School – Mulbekh – Ladakh – Jammu and Kashmir

BRIEF PROJECT DESCRIPTION:

SDPS proposed master plan:

- 01 ... Administrative block + library
- 02 ... Prayer hall, LKG & UKG
- 03 ... 8 No. of classrooms
- 04 ... 4 No. of classroom, labs, computer lab
Art & music classrooms
- 05 ... 12 No. of classrooms
- 06 ... Student accommodation
- 07 ... Dining hall, canteen, kitchen, food storage
caretaker office, laundry, ironing, storages,
school helpers accommodation
- 08 ... V.I.P. and teachers accommodation
- 09 ... Main outdoor assembly area
- 10 ... Courtyard
- 11 ... Outdoor activity area
- 12 ... Ladakhi compost toilets
- 13 ... Access to sport fields
- 14 ... Gymnasium
- 15 ... Sport field: basketball, volleyball, tennis with
possibility of conversion in to ice ring in winter
- 16 ... Covered seating
- 17 ... Opened seating
- 18 ... Tourist accommodation
- 19 ... Cultural and training centre/workshops
- 20 ... Ladakhi museum
- 21 ... Parking



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FIRST BLOCK OF CLASSROOMS DESCRIPTION:

The classroom block:

- has two stories
 - ground floor: five classrooms with capacity of 20 to 24 students per one classroom – total 100 to 120 students
 - first floor: science labs (biology, chemistry, physics, computers)
- is passive solar heated based on direct solar heat gain
- has an electricity supply generated by solar panels which are part of the SDPS project
- is built with an insulated rammed earth double walls
- is using a double glazing
- is using typical ladakhi window decoration as a shading structure against classroom overheating in summer



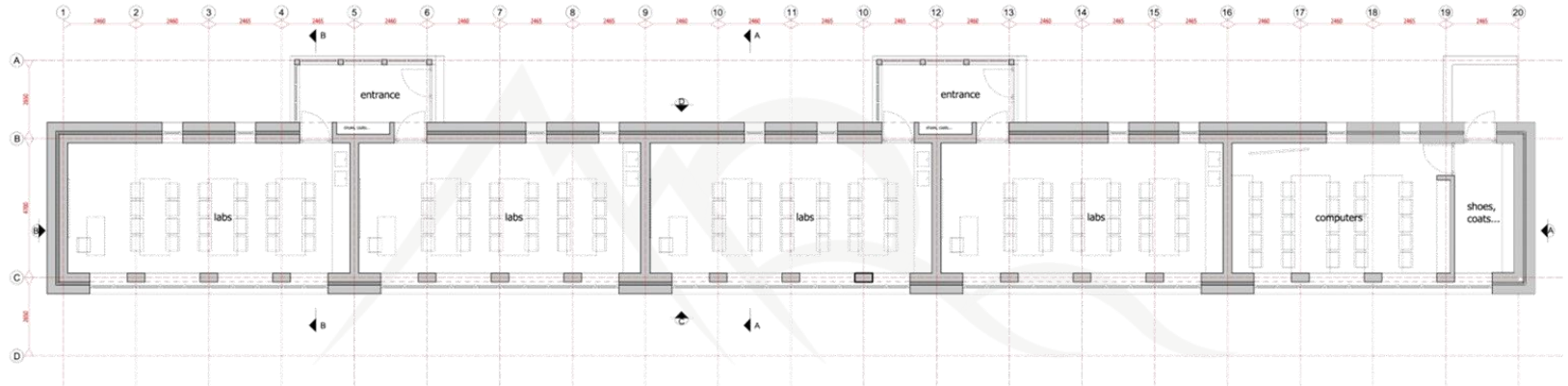
View between two classroom blocks



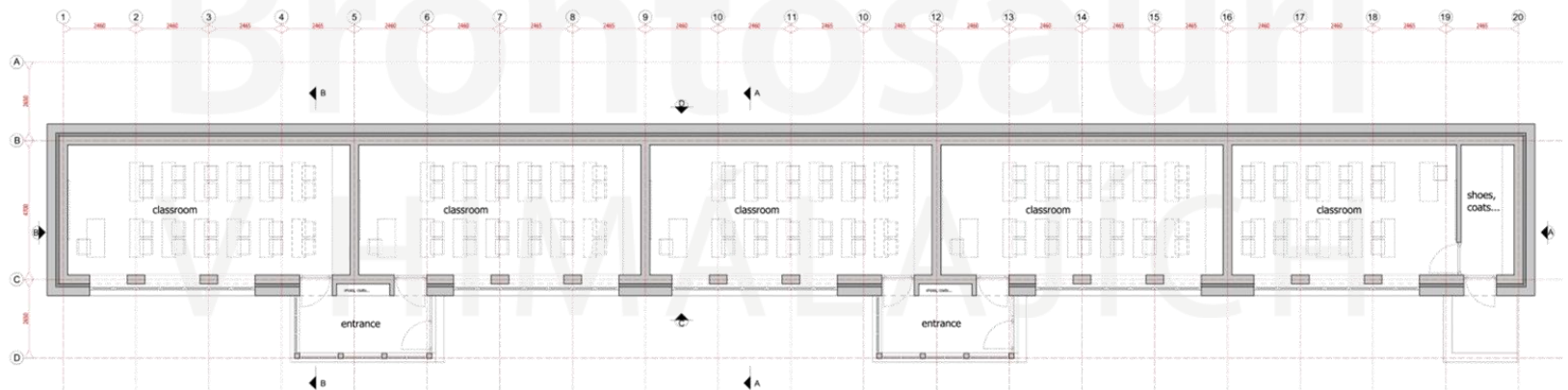
Main view

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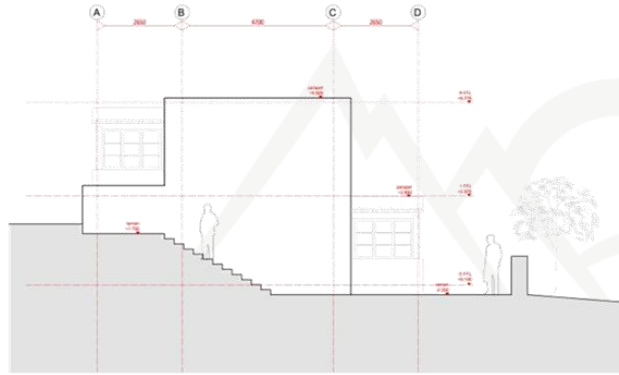
First floor layout



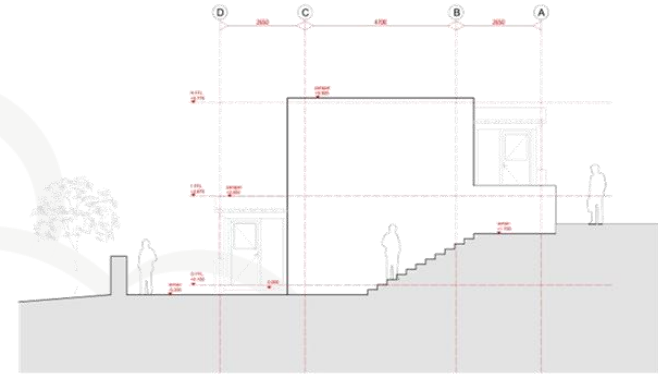
Ground floor layout

FIRST CLASSROOM BLOCK

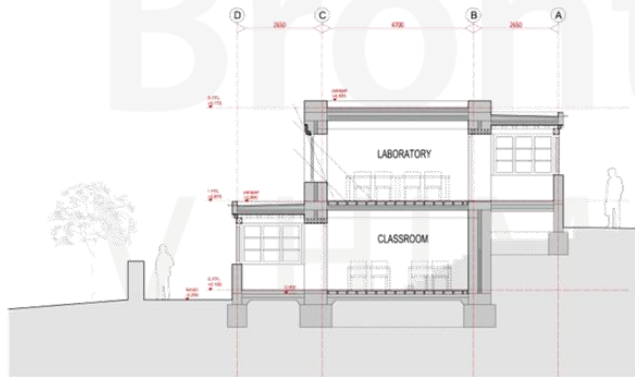
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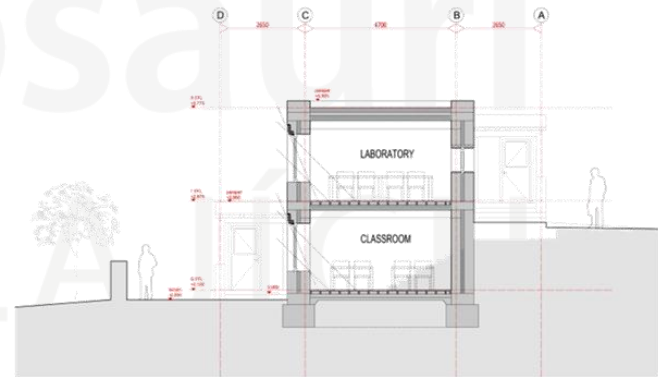
West elevation



East elevation



Cross section A-A

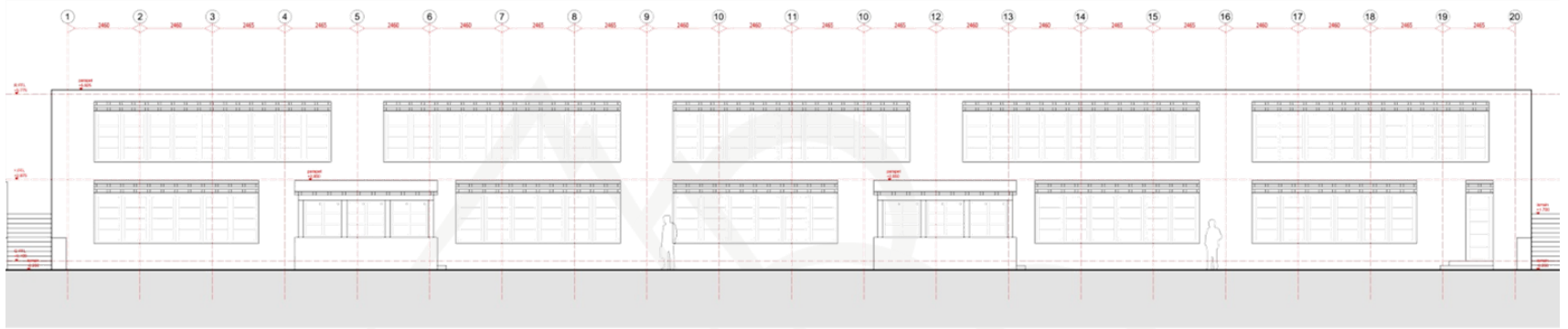


Cross section B-B

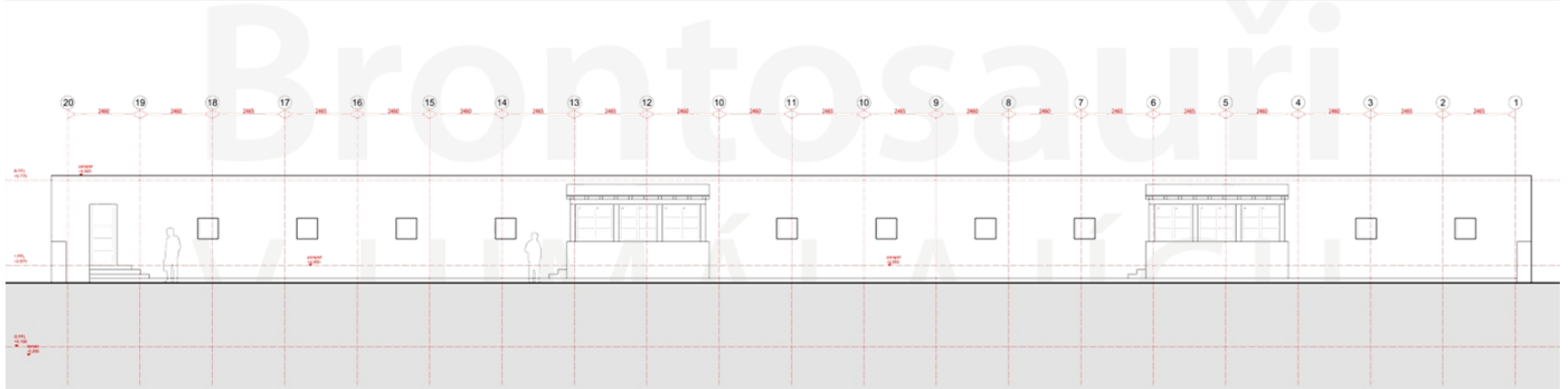
Spring Dales Public School Development Project

FIRST CLASSROOM BLOCK

Spring Dales Public School – Mulbekh – Ladakh – Jammu and Kashmir



South elevation



North elevation

Spring Dales Public School Development Project