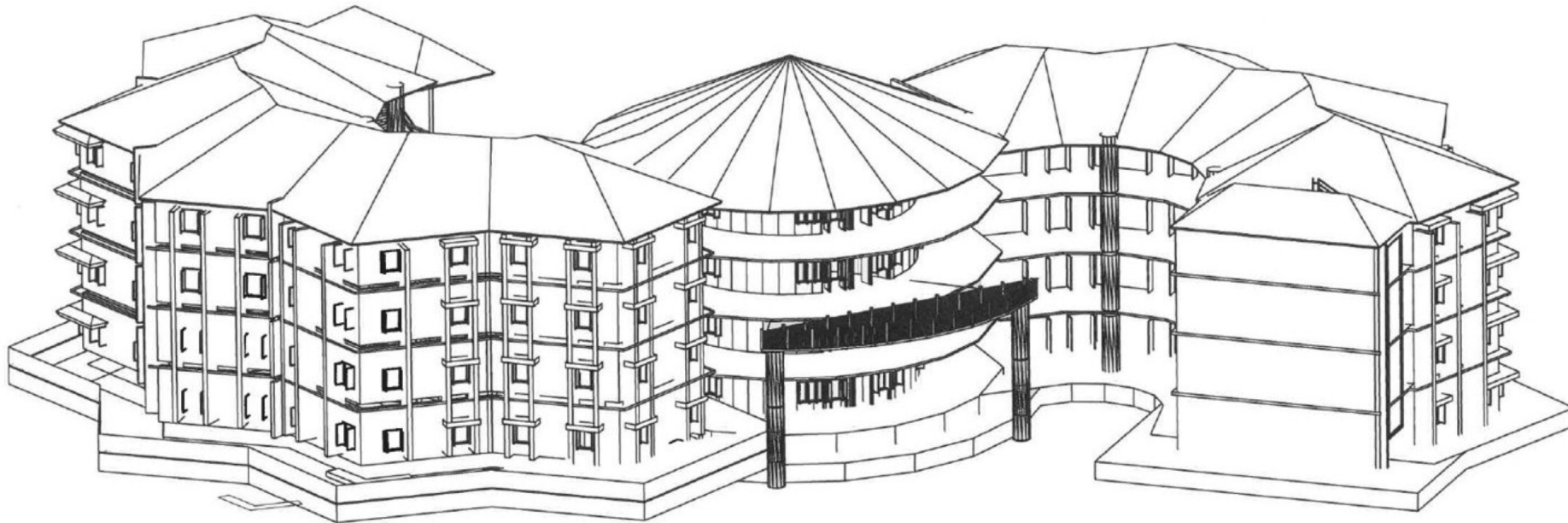




Jeypore College of Pharmacy

Design & Construction · Jeypore, Odisha · 2001–2003 · Architect and Project Manager

THE PROJECT

A pharmacy campus on nine acres of sloping highway land

Founded in 2000 and run by the Banagiri Development Trust, Jeypore College of Pharmacy opened in 2001 and has grown into one of the leading institutes in the KBK districts of Odisha — one of 33-plus pharmacy colleges in the state and among its top ten private institutions. The campus carries academic research, a medicinal garden, a canteen, a playground and student development spaces.

9 acres

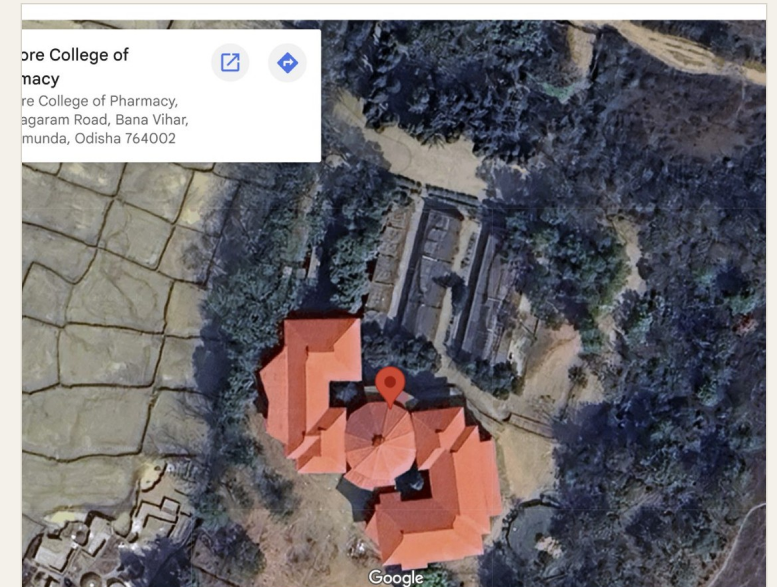
Site along the highway

G+3

RCC frame, ~15,000 sft
a floor

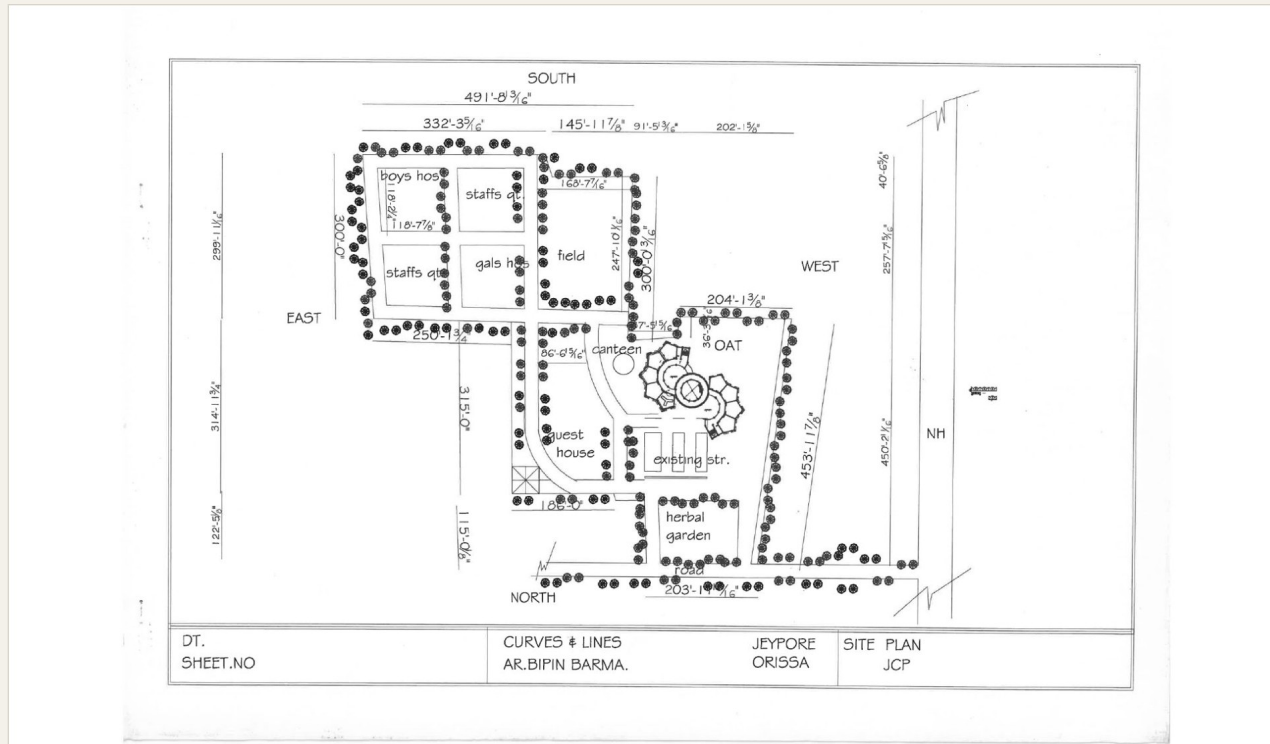
50,000 sft

Built-up (~45,000
sft carpet)



SITE & MASTER PLAN

The academic block sits at the heart of a self-contained campus



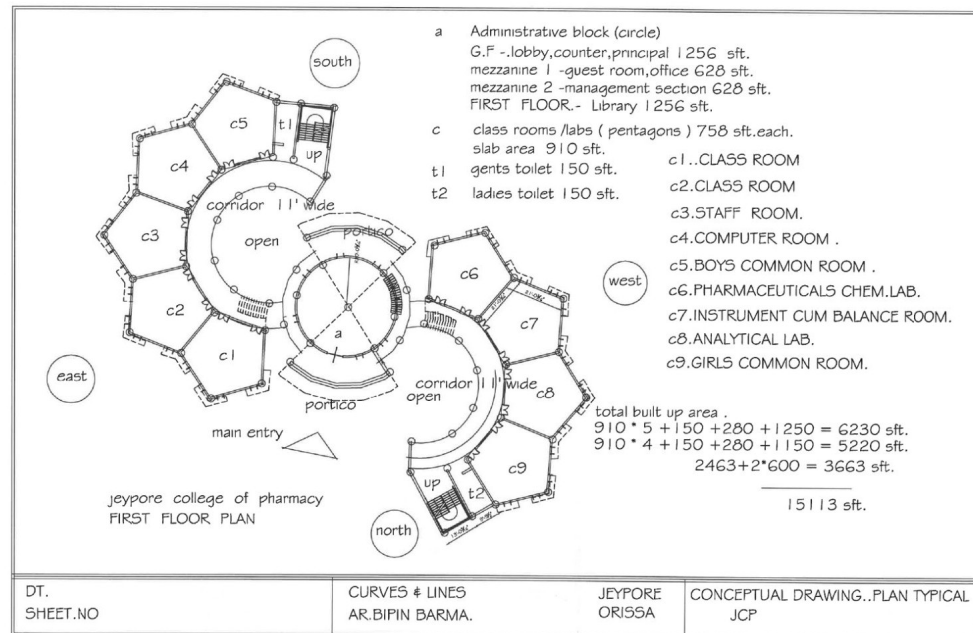
What the nine acres hold

- Penta Circle academic block with twin porticos and main entry
- Boys' and girls' hostels with staff quarters along the south edge
- Playing field and open-air theatre (OAT) beside the canteen
- Guest house, herbal (medicinal) garden and the retained existing structure
- Internal road loop and tree-lined boundary; frontage to the national highway

The sloping terrain is worked into the levels: the section shows a 6 ft drop across the block absorbed in the plinth rather than cut away.

DESIGN CONCEPT

“Penta Circle” — an S-shaped composition of pentagons around a circle



Pentagonal classrooms and labs are strung along two curved 11 ft corridors, connected at both ends by projecting balconies to a circular core for admin, offices and the library. Total built-up per typical floor: 15,113 sq.ft.

Designed on four factors

1 · Climatology

2 · Functionality

3 · Unique
aesthetic value

4 · Workmanship

Built for a tropical climate of hard sun and heavy rain

Orientation

Set so the south-west wind strikes the building and passes through the plan.

Hollow-block walls

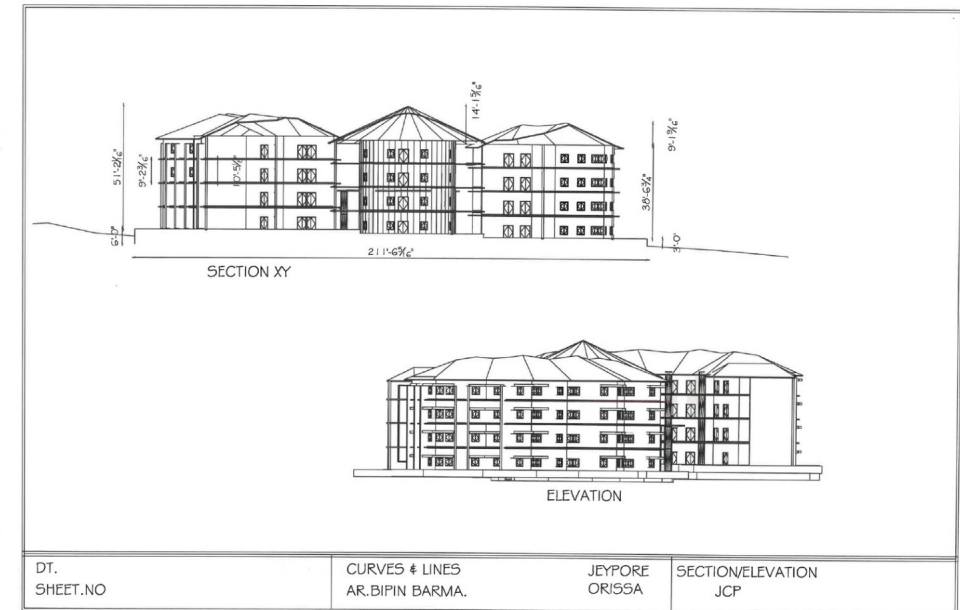
Concrete hollow blocks in place of brick, with a 3 in air gap to hold back heat, seepage and external noise.

Courtyards

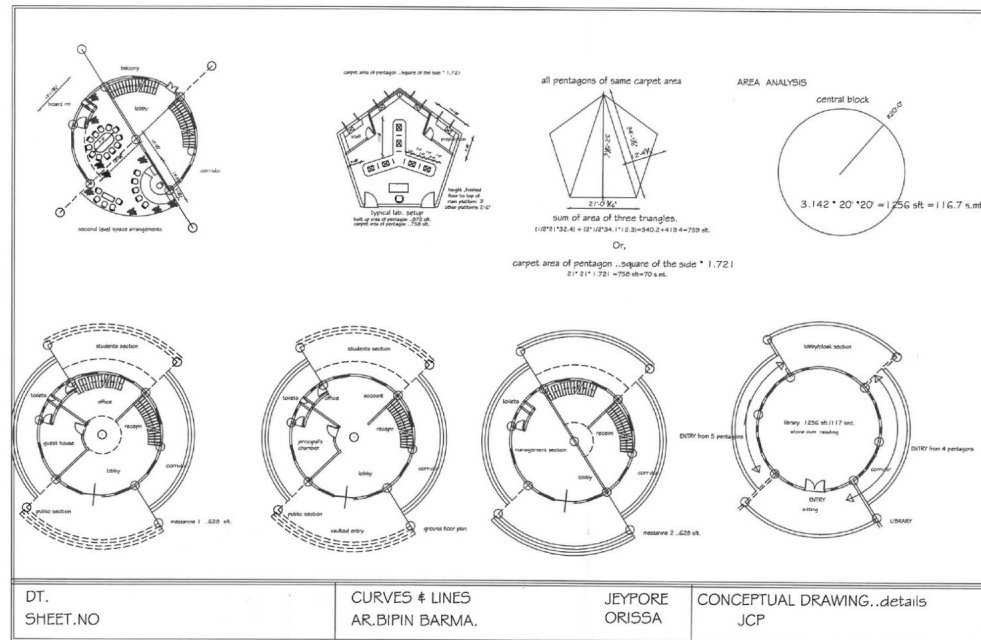
Arcs of classrooms enclose open courts that temper the heat and bring students and teachers together.

Roof & water

9 ft pyramidal sloped roofs shed the monsoon; rainwater harvesting points are spread across the campus.



A megaphone-shaped room for acoustics, air and sightlines



911 sft

per room, no
internal columns

40 seats

facing the board from
the apex

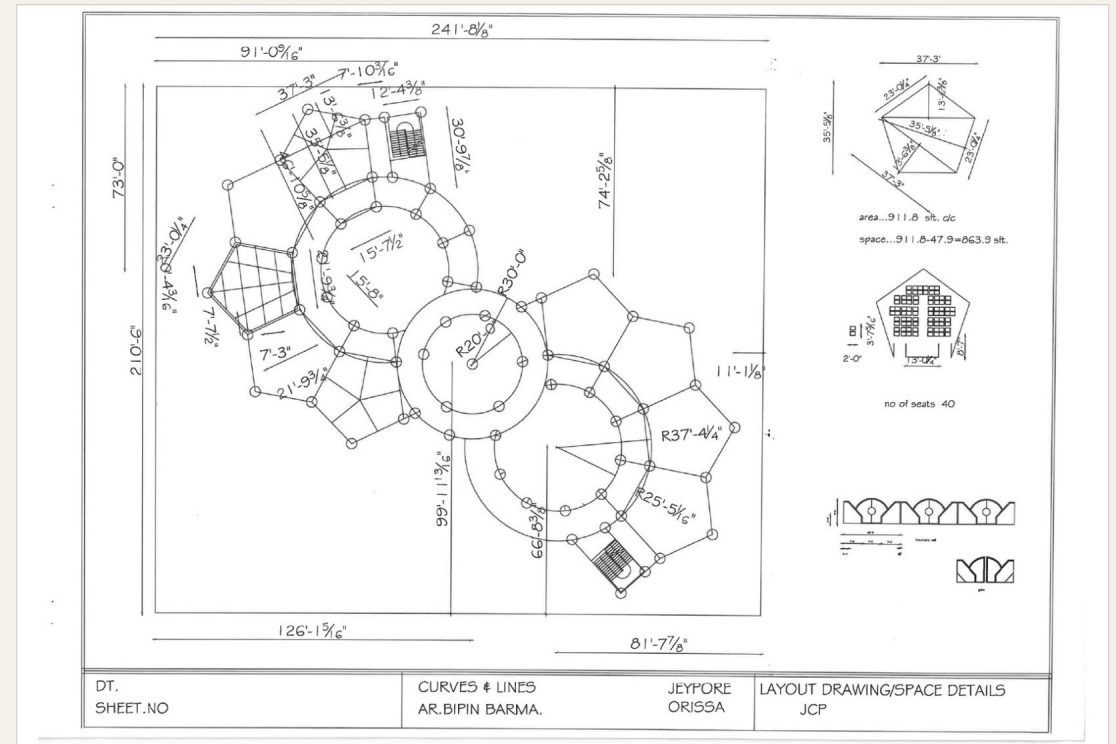
- Pentagon chosen on a megaphonic principle: better acoustics, cross-ventilation and student-teacher-board visibility
- Two sides open with large windows; chajjas and vertical blockwork shield them from rain and sun
- Labs break from the usual U-bench: three tables radiate from the centre, easing group work and supervision
- Services run to the pentagon's outer apex, down to a gully trap and on to the STP and rainwater system

PILLAR 2 · FUNCTIONALITY – THE CIRCLE

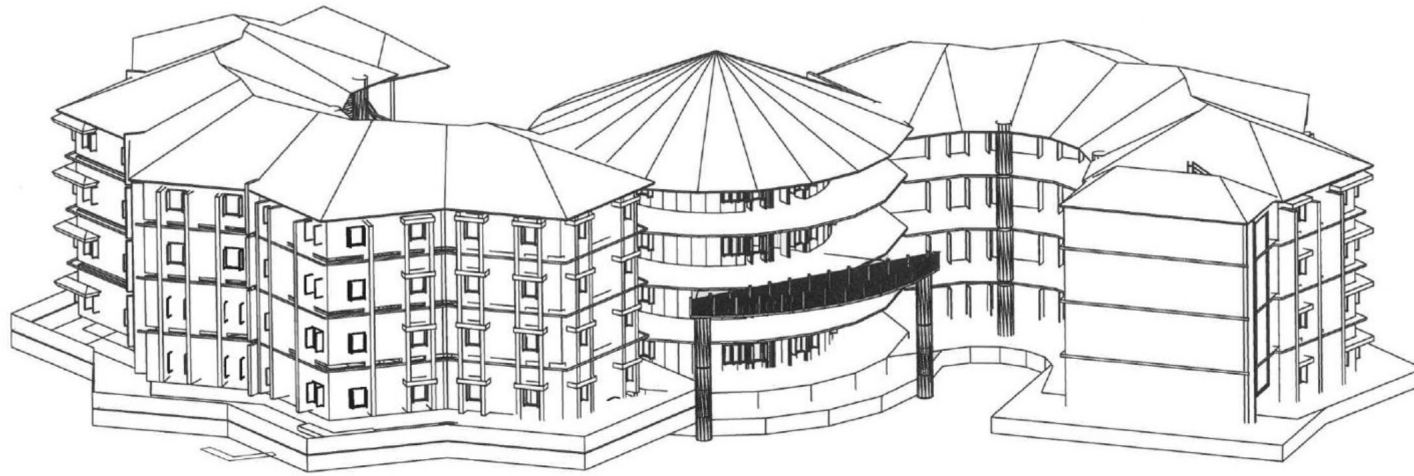
A triple-height circular core for admin, offices and the library

A 40 ft diameter drum anchors the two classroom arcs. Its lobby rises three storeys, with twisted 600 sft semicircular mezzanines stepping up inside it, and the library on top ringed by circular balconies — naturally lit and ventilated, a quiet place to read and discuss.

Level	Use	Area
Ground	Lobby, counter, principal	1,256 sft
Mezzanine 1	Guest room, office	628 sft
Mezzanine 2	Management section	628 sft
First floor	Library with store and reading	1,256 sft



Raw concrete geometry set against landscape and mountain



The form factor is left exposed on purpose: a play of pentagons, cylinders, conical and pyramidal roofs, built in painted raw concrete block and surrounded by landscape with the hills behind. The result is simple, form-driven, accommodating and modern — the geometry does the work, not the finishes.

A hybrid method: imported skills, site-made blocks, local means



The challenge

Local masons had never set out pentagons, circles or triangles, and the column and beam sizes were non-standard for them.



The crew and the blocks

A team of about 100 from Tirupati, Andhra Pradesh, was stationed on site; block-making machines bought from Pondicherry produced the hollow blocks under compression.

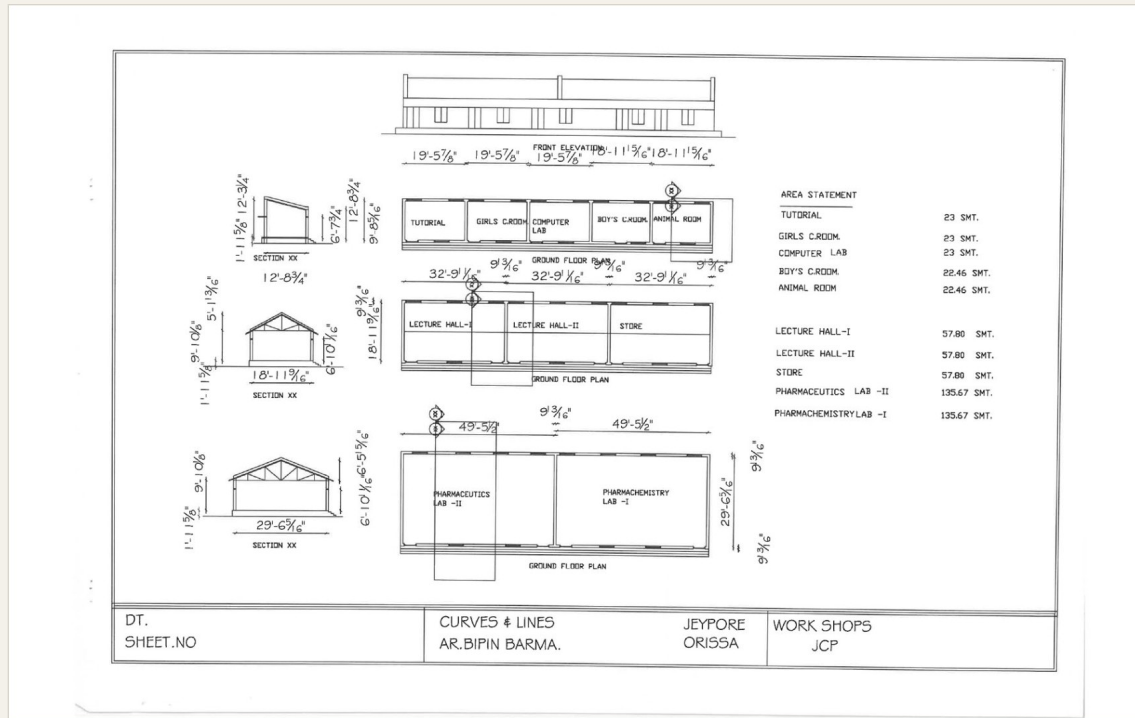


The local means

Bamboo and timber scaffolding, wooden ramps and stairs to lift material, and concrete poured by hand — one slab level took five days and nights of continuous work.

DELIVERY

Completed in three phases and launched on plan



Alongside the main block, single-storey trussed workshop blocks house the lecture halls, pharmaceuticals and pharmaceutical labs, tutorial and common rooms, computer lab, animal room and store — so teaching could begin while the Penta Circle rose in phases.

2001–2003

Designed, managed and executed as Architect and Project Manager, straight out of college

3 phases

Built as planned, with each phase handed over for use on the scheduled date

Still in use

Today among the forefront institutes of the KBK districts of Odisha