

Cancer Care Center

Throughout India

CLIENT	:Alamelu Charitable Foundation (An initiative of Tata Trusts)
SCOPE	:Health care planning - Master planning + Architecture + Interior + MEP + Structural + Façade + Landscape
PROGRAM	:25 beds – 500 beds
PLOT AREA	:0.5 – 19 Acres
BUILT-UP AREA	:30,000 sq.ft. – 7,00,000 sq.ft.
STATUS	:Ongoing

A comprehensive approach towards design of Cancer Care Center

This scalable model of care has been developed by Tata Trusts and Edifice Consultants Pvt. Ltd., in which the cancer care facility can start small and grow with demand in a planned manner. This model will also encourage a large section of stakeholders to overcome entry barriers in cancer care.

The layouts of all locations are based on a single planning principle which allows to design for a unified facility with same operational parameters along with similar look and feel across all centres, with incorporation of the unique cultural, art & geographical influences of each location. The similarity in components helps in creating a brand value along with streamlining of patient, relatives and staff experiences across all facilities.

EDIFICE





MODELS OF CANCER CARE

How this research is advancing the delivery of cancer care.

Description of Program

LEVEL 1

This is a state-of-the art tertiary cancer care centre, standalone apex facility capable of handling complex cancer cases.

LEVEL 2

Currently envisioned as a partner institution with medical colleges & general hospitals, the L2 model contains a dedicated oncology unit.

LEVEL 3

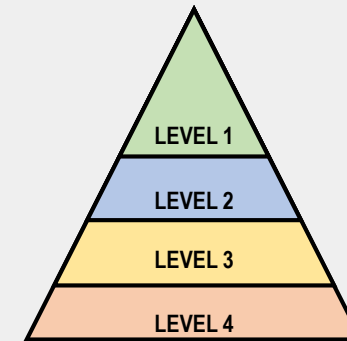
These cancer care centres contain local diagnostics & day care and are annexed to district hospitals.

LEVEL 4

Awareness and community screening programs run in partnerships with CHC, PHC and Sub-centres.

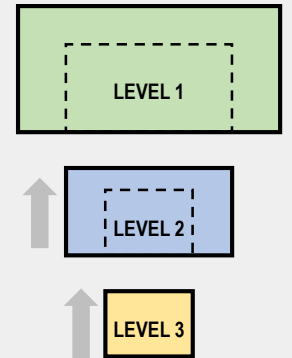
Distributed Model of Care

The existing Tata Trusts network of cancer centres focuses on a distributed model where the apex centre is envisioned as a standalone facility and the bulk of the care is delivered by cancer units attached to existing health facilities.



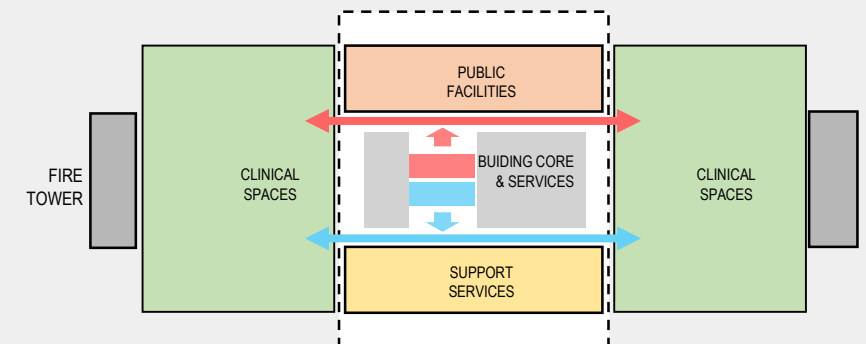
Scalable Model of Care

This scalable model of care has been developed by Tata Trusts and Edifice Consultants. In this model the cancer care facility starts small and grows with demand. This model will encourage more stakeholders to overcome entry barriers in cancer care.



LAYOUT OF A TYPICAL MODULE

Design Principles

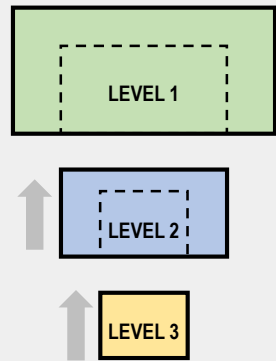


BASIS OF SCALABILITY

Module Analysis

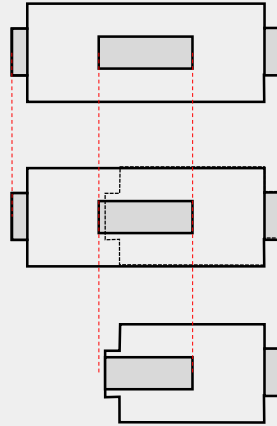
Abstract Intent

The main intent of the scalable model is to design the facility on a flexible & adaptable floor plate. By adding to or subtracting from this basic module, a new & more advanced level of cancer care can be built.

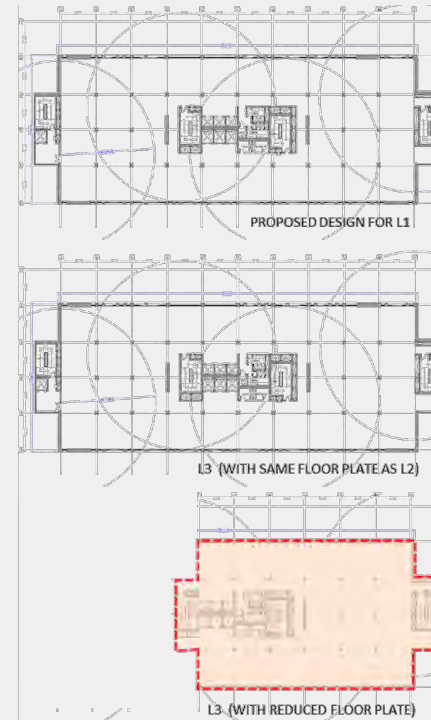


Pragmatic Solution

The service cores form the basis of such an expansion as they pivot all service, utility and transportation means in a building. Thus, they serve as the ideal measure of a module.

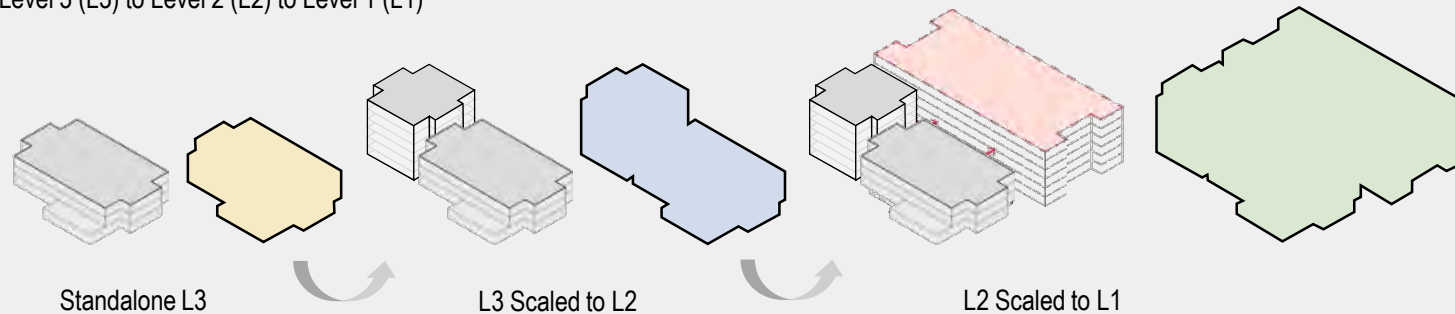


Tangible Result



SCALABILITY SOLUTION

Level 3 (L3) to Level 2 (L2) to Level 1 (L1)



Design Principles-

Through use of a standard grid size, compact spatial organization can be achieved across functions leading to greater operational efficiency.

Flexibility: Standardized floor plates based on universal grid offer the maximum flexibility in terms of accommodating a variety of configurations of medical modalities. Therefore, they lead to a resilient structure.

Economy: of construction can be easily achieved in structures that employ standard grid design. Flat slab or PT slab construction are means of achieving this economy of speed and cost.

Future Proof: The programs and interiors within the universal standard grid can be modified time and again to best reflect the emerging needs of every medical center.

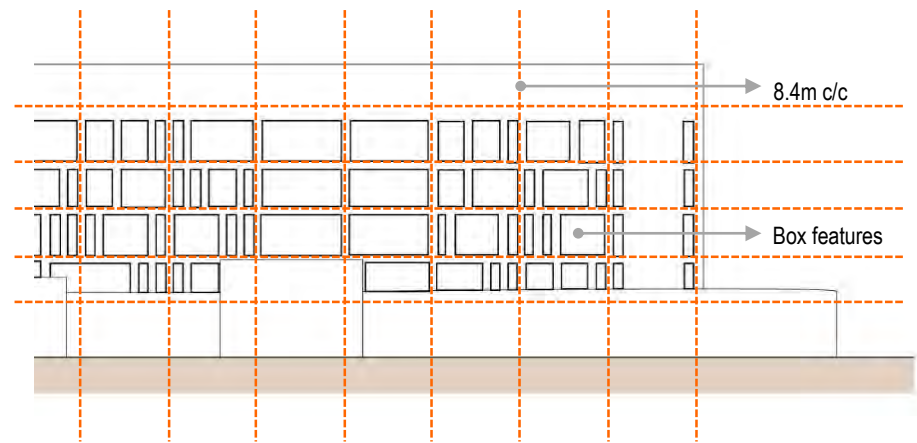
Therefore, expansion, renovations or re-arrangement of program across floors can be carried out with relative ease.



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Façade - base grid strategy

The façade is been developed based on patterns created by a planning grid of 8.4m c/c. Vertical members, staggered opening, walls, box features, fins have been introduced.

The façade articulation is flexible and can be wrapped around any Cancer care module even with varying building heights.

The planning grid allows flexibility of providing varying room sizes at various floors without partition hitting the windows. Also acoustics is better managed.

