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Planning for Healthcare

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Showroom Design

Fostering a sense of community and place...

Project: Tata Medical Centre, Kolkata

Architects: Cannon Design, USA, Mumbai



With a mission and mandate to provide quality healthcare, education and research to the people of India, the new Tata Medical Centre in Kolkata will serve the northeastern regions of India as well as the neighbouring countries of Nepal, Bhutan, and Bangladesh. Occupying a 13-acre site at Rajarhat, the 300,000sf center is one of India's first world-class comprehensive cancer hospitals and research centers.

The new facility reflects the dignity, security, care and stability of the Tata Trust and of Tata Memorial Centre in Mumbai, an institution that for decades has been a leader in providing quality healthcare, education and research. With inviting grounds and entrances, the Tata Medical Centre projects a civic presence while housing the most advanced

technologies in cancer care today, offering hope and strength to patients and their families.

To foster a sense of community and place, an exceptional level of care has been devoted to the project's siting and organisation. Rather than simply housing all programmatic components in one large box-like building, a campus setting was created by accommodating care delivery, research, academic and support functions in separate yet linked structures. These buildings surround a central courtyard that forms the heart of the campus, with gathering spaces and gardens that foster communication and interaction among patients, family, clinicians and researchers. The result is a vibrant environment for scientific discovery and multidisciplinary patient care.





GROUND FLOOR PLAN

- 1. LOBBY/COUNSELLING/OPD CLINICS
- 2. IMAGING/RADIATION THERAPY
- 3. ACADEMIC/ADMINISTRATION
- 4. SERVICE SUPPORT



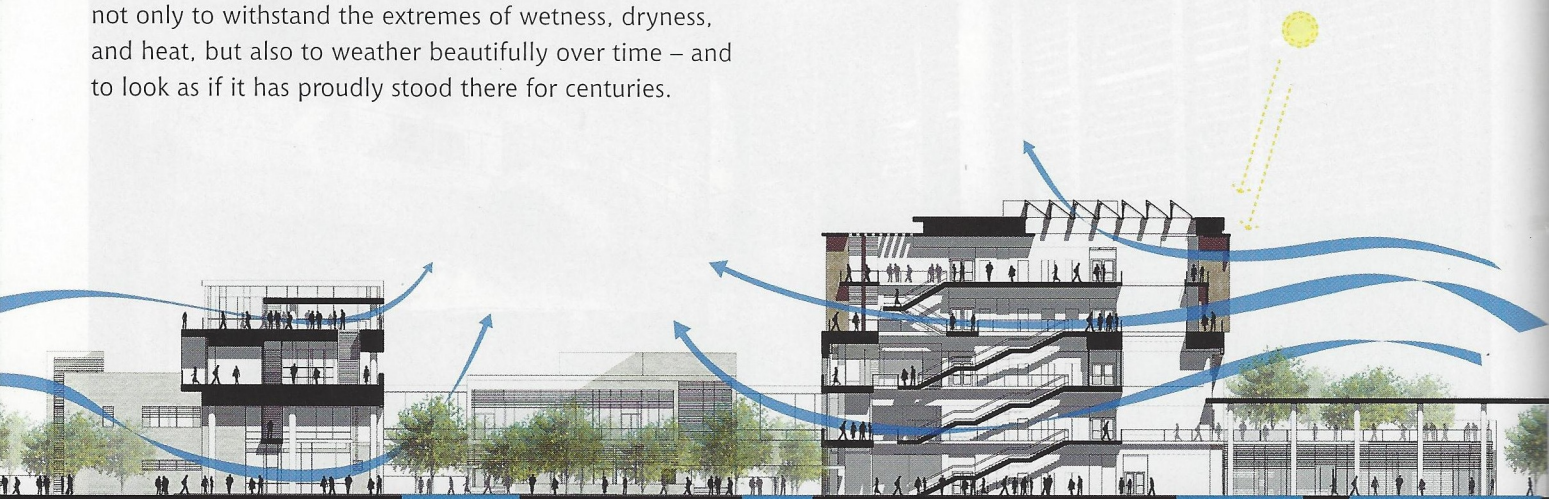


FIRST FLOOR PLAN





With summer temperatures commonly exceeding 40 degrees Celsius, over 1.5 m of monsoon rains falling between June and September of each year, and seasonal dust storms, the climate demanded durable, authentic materials as well as traditional Indian architectural solutions. A natural stone and plaster exterior was chosen not only to withstand the extremes of wetness, dryness, and heat, but also to weather beautifully over time – and to look as if it has proudly stood there for centuries.



SECTION



The building is carefully oriented to capture the prevailing winds, which change direction in summer and winter. Openings are strategically placed in the building's mass to allow continual movement of air through the structure. Although the complex is fully air-conditioned, mechanical provisions have been made for the use of operable windows in certain waiting areas to enhance the comfort of patients and visitors who prefer natural ventilation. (Sterile areas are, of course, designed in accordance with state-of-the-art medical air quality standards.) Rain is harvested and stored in underground tanks for year-round irrigation of the gardens that are integral to the patient experience and to the creation of the Tata Medical Centre's healing environment. ☩

FactFile

Client: Tata Medical Hospital

Design team: Cannon Design; Tarun Kumar, AIA, LEED, Vice President

MEP & Structural consultant: Tata Consulting Engineers, Mumbai

Landscape consultant: Singal Associates, New Delhi

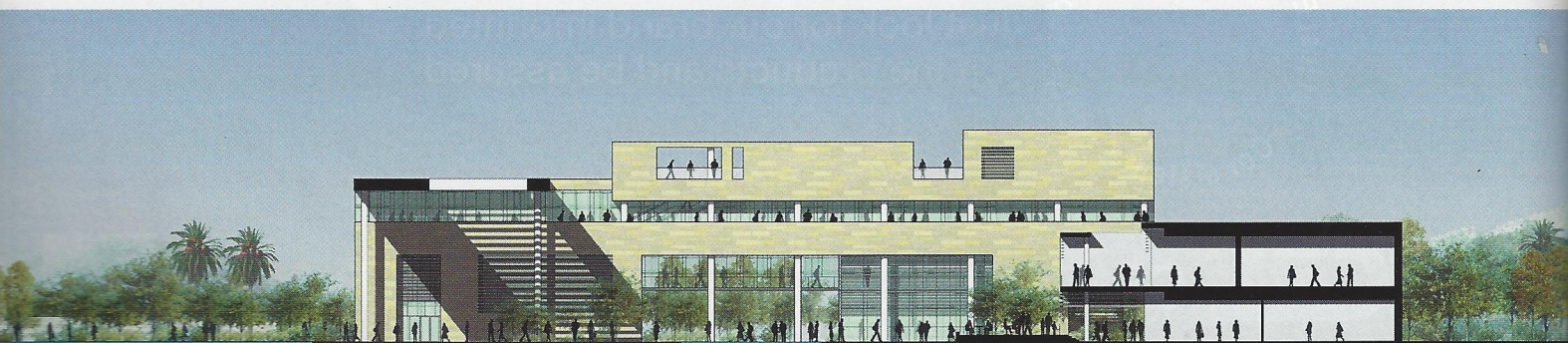
Consultant: Ajay Electricals

Contractor: Shapoorji Pallonji & Co. Ltd, Ahluwalia Contracts (India) Limited

Cost of project: Rs. 300 crore

Year of completion: 2011

Photo courtesy: Prajakt Patil – Cannon Design, Pradip Sen



ELEVATION