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Clients requirement was to complete this large building covering 5,80,000 sq. ft. area within 10 months. Hence, considering the stringent time constraint, construction in steel was the best option. The secondary beams were supported on steel main beams which were supported on steel columns with moment connections. Steel studs were provided between steel beams and RC slabs for composite action. Lateral loads were resisted by RC shear walls and partly by steel column beam frames. For fire resistance steel columns were encased in concrete and steel beams were covered in vermiculite. Only because its framing was done in structural steel, such a large building could be completed in a record time of 10 months.

Client: Tata Trusts
Architect:
Edifice Consultants Pvt Ltd
Structural Consultant:
Dr. Kelkar Designs Pvt Ltd
Steel Fabricator:
JSW Severfield Structures Ltd
Steel Tonnage: 2700MT
Status: Completed

MPMMCC, UTTAR PRADESH

The MAHAMANA PANDIT MADAN MOHAN MALAVIYA CANCER CENTRE (MPMMCC) building consists of three wings called IPD, DNT and RT. The IPD Wing has a Basement + Ground Floor + Seven Upper Floors + Terrace, whereas, the DNT Wing has a Basement + Ground Floor + Five Upper Floors + Terrace. The third wing called RT is of Ground + Four Upper Floors + Terrace. Its lower two floors also house Linac – which have very thick RCC slabs and walls. The floor finish was generally of ceramic tiling and the internal walls were of light weight Siporex blocks. In some areas housing CT scan and MRI machines, 150 thick RCC walls were required to be provided. The total construction area including basements is about 5,80,000 sq. ft.

