



Air Conditioning of Medanta – The Medicity

A front view of the 14 storey, 1600 bed, largest private hospital in India. Located in Gurgaon, NCR

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Credits

*All photos are courtesy
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Medanta, India's largest hospital spread over 43 acres in Gurgaon, on the outskirts of Delhi, opened its doors to patients on November 18, 2009, with the commissioning of 100 beds, including 30 in critical care. Promoted by cardiac surgeon, Dr. Naresh Trehan, chairman, Global Healthcare Ltd., the hospital will be fully functional in May 2010.

It will eventually have 1600 beds – 1250 normal and 350 critical care – 45 operation theatres, over 1000 doctors, 20 super-specialities and 48 clinical specialities.

The following photographs will take you on a short walking tour of some areas of the hospital.



1

The impressive entrance lobby with an overall area of 3100m² including registration, waiting and restaurant



2

A wide corridor connects the main entrance to the Emergency Registration. All corridors are 3m wide except those with columns which are 2.4m



3

The spacious Emergency Registration area



4

The Pharmacy near the entrance



5

The comfortable Blood Donation area



6

The Blood Bank



7

The large Clinical Lab



8

A Nursing Station



9

Entrance lobby leading to OPD floors



10

A view of an OPD floor



11

Connecting corridor leading to Radiology from Emergency



12

Triage area wherein patients are segregated according to their needs



13

Typical room for in patients



14

MRI waiting area



15

The Cath Lab



16

Emergency Operating Theatre, one of 45 OTs. Approx. area of OTs varies from 50m² to 70m² with 100% fresh air, laminar flow ceiling diffusers and low level exhausts



17

A service floor for AHUs provides plenty of space for service and maintenance work



18

A typical AHU for an OT complete with a heat recovery wheel



19

A view of the Central Plant room showing chillers, pumps and water piping. Located in a service block separate from the main hospital building



20

A close up of the five semi-hermetic centrifugal chillers, 800TR each, working on R134a. The plant room is brightly lit



21

Chilled water piping leading from the plant room in the service block to the hospital building



22

Cooling towers on the terrace of the service block and condenser water headers



23

4-pipe connections on a FCU with both chilled water and hot water coils for all patient rooms. Hot water supplied from steam to water plate heat exchanger



24

Electrical panels in the Central Plant room