

Policy No 15/2018

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List 'A' and 'B'

PLANNING OF HOSPITAL ACCOMMODATION – FLOOR HEIGHT OF
ROOMS AND OPERATION THEATRE IN HOSPITALS

1. A number of Hospital Projects (Medical Infrastructure Development in Defence Sector) are being undertaken by the three Services. There is a need to evolve an integrated approach and ensure that mandatory & functional provisions are not missed out during planning stages.
2. The detailed planning is to be done in accordance to scales, while design (architectural/ structural/ MEP and other services) is done in accordance to NBC provisions, stipulations laid down in relevant IS codes and other/ local building bye laws/ regulations. All provisions from safety considerations including Structural Safety, Fire Safety etc as per relevant latest codes shall be duly considered. The location, size, design, treatment, specification for filling and covering of expansion joints/ crumple joints need special emphasis. The location of columns in Operation Theatre (OT), Intensive/ Critical Care Units, Accident and Emergency Care areas, and other important areas shall be decided keeping in view their critical functional and manoeuvrability requirements.
3. Scales of Accommodation for Armed Forces Hospitals 2003, at Clause 0.6, provides that clear height up to the lowest point of ceiling from finished floor level shall not be less than 3.20m, while minimum clear headroom under bottom of beams, fan and light shall be 2.80m. The height of Operation Theatres will not be less than 4.00m. These minimum floor heights are to be adopted where no false ceiling is provided, and the slab soffit (underdeck) is visible.
4. As a general guideline, in locations where false ceiling/ underdeck service network are to be provided, the height below the soffit of the beam shall be 3.60m such that the height of the room upto lowest point of false ceiling is not less than 3.00m (as per IS 12433) and sufficient plenum space for services network. The Operation Theatre shall be adequately designed and the height below the soffit of the beam shall be 4.00m such that the height of the room upto lowest point of false ceiling is not less than 3.00m and sufficient plenum space for services network. The total height of all rooms and OT (from FFL to FF) shall be calculated on case to case basis depending on the depth of the beam provided (eg for 750mm high beam the room height (from FFL to FF) shall be 4.35m and for OT (from FFL to FF) shall be 4.75m. However where additional heights are required for specific reasons, the same may be justified in the Board Proceedings and recommended accordingly. Provision for modular OT,

wherever recommended by BOO, should be made. The above shall be read in conjunction with relevant provisions of respective departments of hospital as given in Scales of Accommodation for Armed Forces Hospitals 2003.

5. Sufficient number of shafts/ ducts and ceiling spaces/ plenum need to be provided in the design to take all services network. The ceiling spaces and vertical shafts have to house the fire detection/ protection systems, plumbing piping, HVAC duct work/ suspended units, large & small electrical conduits, cable trays, pneumatic tubes, conduit racks, IT/ AV communication networks, suspended medical equipment, lights, etc and designed accordingly.

6. The dimensions of structural elements like beams and columns depend on the span and height. While structural safety is of prime concern and hence cannot be compromised to provide plenum space for services, the structural modules/ room modules and their dimensions shall be suitably designed so that the space occupied by structural elements like beams, columns, staircases are optimum and do not encroach upon the plenum spaces/ height catered for services networks etc.

7. For information and necessary action please.



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For E-in-C

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