

Specification to be followed for the Proposed Construction of Integrated Hostel Building and Transit Quarters Complex, G+5, having Foundation for G+11 for Future Development which was notified in press vide reference no. 08/EOI/SNB/IHB&TQC/13-14/021 dated 17.08.2013 in the Campus of SNBNCBS, Block-JD, Sector-III, Salt Lake, Kolkata – 700 098.

- 1) Based on soil investigation report which has already been completed, pile foundation for G+11 eleven storied building is to be done with board cast in site reinforced concrete pile of grade not leaner than M-25 of specified diameter & reinforcement arrangement, as design and working drawing to be provided by consulting Architect in due course conforming IS-2911(Part-I/Sec-2) and IS-2911 (Part-4). Initial load test, routine load test & integrity test of piles is to be done and piles is to be conducted as per provision of relevant IS codes and results recorded.
- 2) Structure shall be designed by the Architect to withstand earth quake forces based on IS-1893, IS-4326 and IS-13920.
- 3) While executing earth excavation work in foundation care should be taken to tackle effect of depth of foundation, ground water level and adequate measures for shoring, dewatering etc as required to be adopted.
- 4) Pre-construction anti-termite treatment is to be conducted at different stages observing code of practice IS-6313 (part-1 & part-2). The treatment is to be conducted through reputed approved applicator. 10 (ten) years guarantee is to be provided on Rs.100/- non-judicial stamp paper of appropriate value, by the firm jointly with the applicator.
- 5) For concrete work relevant (latest edition) IS codes like IS-456, IS-10262, IS-516, IS-1791 etc as applicable should be followed.
- 6) Fine and course aggregate to be used in work should be strictly followed as per IS-383 latest edition.
- 7) Construction joints in super structure for columns, beams slabs etc should be done as per CPWD standard specification and using poly sulphide sealant.
- 8) Design mix of concrete of grade not leaner than M-25 or as specified in drawing is to be used in work and mix design is to be got approved from reputed accredited lab or from institute like IIT, J U , BESU.
- 9) Form work shall be of steel plate shuttering for all RCC work, with steel tubular props and scaffolding bamboo or balli propping shall not be allowed.
- 10) Mild steel bars and TMT high strength deformed bars shall conform to IS-432 and IS-1786-2008 respectively. These are to be manufactured by M/s. SAIL, M/s. Tata Iron & Steel Co. or M/s. RINL as available, conforming to grade Fe-415D/Fe-500D as mentioned in drawing.

- 11) Kiln burnt bricks to be used in work are to be of class designation 7.5 should conform to IS-1077 and work should conform to IS-2212 of latest edition.
- 12) Artificial stone flooring, vitrified tiles conforming IS-15622, ceramic tiles conforming IS-15622, kota stone, marble stone (of approved quality and size) granite work in floor, dado, skirting, tread, riser, sill etc should be as per general practice stated in CPWD specification for rooms, corridor etc unless specifically mentioned in drawing.
- 13) Frame of wooden doors (as per drawing) shall be of high quality Sal wood and hot pressed factory made flush door shutters of solid core type both decorative and non-decorative type should conform to IS-2202 (part-I).
- 14) Door frame and shutters of toilets shall be of laminated decorative finish of solid PVC (panel thickness 5mm) of approved make.
- 15) Glazed aluminium anodized door shutters and windows as per drawings of sizes, made of selected extruded sections/service shall be made with ventilator, slabs etc required.
- 16) Internal and external finishing shall be as detailed in drawing conforming to CPWD specification.
- 17) All sanitary and plumbing work shall be of Jaquer make as mentioned in drawing.
- 18) All soil and waste pipe lines including specials should be as per drawing conforming to IS-3989.
- 19) All water supply lines should be of 3 layer PPR having thermal stability for hot and cold water.
- 20) All electrical wiring works to be made concealed. The position of electrical points, fitting and other fixtures should be as detailed in drawing.
- 21) Lift should be of MRL, VVVF technology, SS mirror polished inner surface with landing door, infra red door operation sensors, ARD, Duplex automatic operation 8 passenger capacity – 2 in numbers.
- 22) Landscaping, horticulture and rain water harvesting are to be provided.
- 23) Solar water heating system is to be provided for supply in toilets & kitchens portions.