

TECHNICAL SPECIFICATION AND AMENITIES

PROJECT: "Project Name & Address – "EDEN FLORA - II" at 2946 Nayabad, 2950 Nayabad & 2941 Nayabad, KOLKATA – 700 094, West Bengal

Specification of Materials

Cement: Ambuja, OCL, Lafarge, Ultratech, Birla, ACC, Ramco or equivalent cement may be used if compelled by condition of availability, only under strict supervision ensuring effective casting and mechanical consolidation within fifteen minutes from delivery of the mix by the mixing machine.

Sand: Course sand, free from clay and all other foreign matters shall be used. Screening and washing arrangement are to be kept at site for use with sands containing impurities & intolerable properties.

Coarse Aggregates: Properly graded mixes of stone chips are to be used. The material shall be hard, homogeneous, free from pores, flakes and deleterious impurities. The material should not contain any sulphate and should not absorb more than 10% of its own weight of water. Maximum size of aggregate may be 25 mm. in beams, slabs and staircases.

Water: Water shall be clean and free from deleterious impurities. Portable water shall be used for mixing and curing.

Reinforcement: Torsteel ribbed bars of tested quality are to be used. These should be clean and free from loose mill-scales, dust, loose rust, any coats of paints or oily material which may destroy or reduce bond.

Specification of Work

Earth work: The rate shall be deemed to provide for excavation in any soil and include all dewatering and slush – clearance and shoring, if any, is required. The contractor should satisfy himself as to the actual nature of soil and site conditions by personally visiting the site.

Materials: All materials shall be new & best of its kind and shall confirm to its specifications or equivalent. No materials shall be used in work without prior approval of the Architect/site-incharge. The contractor must submit samples of various materials to the Architect, for approval before ordering for supply.

Workmanship: All workmanship must be best of its respective kinds and shall confirm to the latest practice and shall be subject to the approval of the Architect.

Storage: Materials shall be transported handled with care and shall enter site carefully to prevent any damage or deterioration.

Cement shall be stored in a dry water tight shed on an elevated platform in sacks not exceeding six bags in height. Reinforcement shall be stored free from contact with moist surfaces.

Structural Concrete Work: All concrete work shall be of controlled variety as per cl. 9.3.2. of I.S. 456 of 1978.

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The selection, grading, clearing by sieves and by washing aggregate mixing, control of water cement ratio, pouring, mechanical vibration and manual compaction shall all be guided by the strictest vigilance of experienced supervisor.

Reinforcement Work: Tested, mild steel, torsteel bars shall be used and shall be cleaned from mill scales, rust, oil, grease or other harmful adherents and shall be cold bend to shapes and dimensions shown in the drawings, tied together with 20 gauge annealed wires closely and tightly to prevent displacement during casting. During casting all tools, plants and workmen will move on other elevated walkways without touching the reinforcement. Casting will not be started till all these arrangements are complete. It must be remembered that the position of reinforcement is of utmost importance and any displacement and disturbance is not desirable.

Form Work: The formwork shall conform to the shapes, lines and dimension shown in the drawings and be of strong, rigid and leak-proof construction. Timber shuttering will be rebated and jointed with polythene sheets covering the joints. The propping, staging, strutting and bracing will be done with materials of sufficient strength to withstand all static and dynamic loads, possible during such construction. Care is to be taken to see that the form work is not disturbed in the process.

Stripping time for different parts shall be as follows:

1) Walls, columns and vertical sides of beam	...	24 hours
2) Soffits of slabs (less than 3.5 M Span)	...	7 days
3) Soffits of beams (less than 3.5 M Span)	...	10 days
4) Soffits of slabs (less than 4.5 M Span)	...	14 days
5) Soffits of beams (less than 4.5 M Span)	...	21 days

The props for supported spans are to be removed from mid-span towards supports and those for cantilever spans from cantilever towards supports.

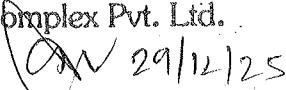
Curing: The beams shall be kept continuously wet by spraying water from below. The columns wrapped with sack or hessian and kept wet continuously.

Earthen bands are to be made on the floor slabs for at least seven days. Curing shall be done upto 29 days but a little relaxation may be allowed. However, absolutely continuous wetting necessary for first 7 days.

Brickwork: Brick shall be first class well burnt, sound well shaped and of standard dimensions. The same shall be immersed and soaked in water for two hours before use in the jobs. Eco-friendly, premium brickwork with Autoclaved aerated concrete (AAC) blocks are also used for better quality, thermal insulation.

Mortar shall be 1:6 cement sand for 200 mm and 1:4 for 125 mm partition walls. All walls shall be perfectly true and vertical laid with frogs upward, perfectly bonded, leveled and thoroughly cured with water for minimum 7 days.

Plaster: The joints in brick or stone work shall be hacked to a depth of 12 mm the surface thoroughly cleaned wetted and concrete surface roughed, hacked cleaned and wetted.

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The mortar shall be composed of 1:6 cement sand for internal plaster, 1:4 for external plaster and 1:4 for ceiling plaster. The average thickness shall be 18 mm for external plaster, 15 mm for internal plaster and 10 mm for ceiling plaster.

Surfaces shall be finished smoothed, edged and lines true to shape and thoroughly cured with water for 7 days. No extra consideration shall be paid for plastering in recess, jambs of doors, windows, columns, etc.

Specifications of Work

- (a) All external walls should be 200/250 mm including plastering.
- (b) All internal partition walls should be of 125/100/75 mm including plaster.
- (c) Plaster with mortar should be done on both sides of the walls and finally plaster of paris/putty coating should be done on all the walls excepting exterior walls.
- (d) Proper waterproof treatment to be done in the Basement floor and retaining walls of the basement and all the toilets and on the terrace of the building.
- (e) Elevation of the building should be nicely decorated with natural stone and snowcem cement paint.
- (f) The PVC/SWR/UPVC/CPVC pipe fittings should be of ISI standards.
- (g) Electrical switches, cables and other fittings and fixtures should be of ISI specifications.
- (h) In the ground floor Rolling Shutter of reputed brand should be provided for shops / showrooms / carparks.

Specification of Finishing Work

Common areas & exterior of the building:

- i) Exterior with snowcem colour/weather coat.
- ii) The common areas in front portion of the Ground floor shall be provided with granite / marble / vitrified tile floorings. Plaster of Paris/putty finished walls.
- iii) Proper light arrangement in the Ground floor, lobby and drive ways in entrance to be provided.
- iv) Proper waterproofing and water discharge system to be made for Basement and ground floor.
- v) Anti termite treatment at ground floor/plinth level.
- vi) Arrangement for local authority water supply to be made, with necessary pumping arrangement; to ensure 24 hours water supply by the builder at their cost.
- vii) Telephone wiring to be done in each flat for 1 No. of telephone. Master antenna and cable T.V. connection and arrangement for intercom facility to be made on the proportionate cost of the Flat Owners.
- viii) Lift of standard make like Kone / Jhonson / Otis / Schindler etc. of adequate to be provided.
- ix) Water reservoirs for corporation water to be provided for storing water in sufficient quantity at developers cost.

Inside of Flat

- i) Putty coating to be made on walls.
- ii) Main gate to be provided with a Godrej Latch & handle.
- iii) Flush doors with good quality of lock to be provided for all other doors.
- iv) Inside partitions as per sanction plans.
- v) Toilet concealed pipes shall be of reputed brands like Supreme, Skipper, Oriplast etc. All fitting shall be of ISI standard of reputed brands like Kohler / Jaquar / Hindware etc. or equivalent brand.

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vi) Marble / Vitrified Tile flooring shall be provided in the rooms, drawing rooms and other areas excepting that in kitchen and toilet, where ceramic tiles on walls and vitrified / ceramic tiles in floor will be provided.

Electrical : a) Concealed **Polycab*** copper wiring with modular switches.
b) TV/Telephone/Broadband points in master bedroom and living room. c) Two Light Points, one Fan Point, one 5A point in all bedrooms. d) One 15A Geyser point in All Toilets. e) One 15A & one 5A points, refrigerator point, and exhaust fan points in kitchen. f) One AC point in master Bedroom. g) Modern MCBs and Changeovers of **Havells/HPL***

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