

FOR EWS-II UNIT		
Sr. No.	Description	Minimum Specification
1	RCC WORK	
	RCC in columns,beams and slabs	The detailed dimensions & mix of RCC to be adopted shall be as per approved structural design and as per IS 456.
2	Masonry work	Fire Burnt Clay Bricks Masonry work shall be in C:M 1:6 proportion and partition wall shall be in C:M 1:4 proportion
3	Railing in staircase & balcony	I.] 0.9 m high MS railing in all the houses in the balcony of the approved pattern with hand railing 40mm MS tube (medium class pipes, app railing wt 20 kg / m) and vertical bars embedded in waist slab. The height of the railing shall be 0.90 m from finished level of step as specified in drawing. II.] 1.15 m high MS railing in staircase of approved pattern with hand railing of 40mm MS tube (medium class pipes, app railing wt 20 kg / m) above floor. III.] Parapet on the terrace shall be 1.15 m above the finished terrace level. Parapet shall be provided of 100 mm thick RCC wall / 230 mm thick Masonary with 100mm RCC coping on top.
4	Conduits for electrical and Telecommunication cables	To be laid as per National Building Code/ BIS standards and to be concealed mostly.
	Wood Work	
	Door Shutters	35 mm thick water proof flush door with 0.8 to 1.0 mm thick lamination on both side with all s.s.fixtures and fastening.
	Door frame For Main Door , Bath and W.C.	Green Marble Stone/ hardwood
	Aluminum Window section	
	Window	2 tracks or 3 track sliding/openable aluminum powder coated window having aluminum section frame horizontal/vertical member size @ wt. of 0.695 to 1.10 Kg/mt with sliding shutters of horizontal/vertical member @ wt. of 0.456 to 0.60Kg/mt with 5 mm th transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per design and drawing with required fixtures etc. complete as per drawings and approved by EIC.
	ventilator	Aluminum powder coated having aluminum section frame horizontal/vertical member size @ wt. of 0.643 Kg/mt. Polish kota Stone sill in single piece at bottom only.
	Flooring & Skirting	Highly Vitrified floor tiles of approved make and minimum 600x600 mm size flooring with 75 mm high skirting in all rooms and Passage area. Wash area and toilet ,Bath area will be provided with the same tiles.
	Roof treatment	China mosaic with waterproofing treatment
	Rain water pipes	SWR UPVC rain water pipe 110/160 mm dia as per approved drawing.
	Bath/W.C.	All sunk slabs of bath/WC shall be with waterproofing treatment.
	Finishing	
	Internal Plastering on walls	Smooth or mala plaster of 15 mm thick in CM (1:4) with white/color washing with lime.

	Finished bottom of RCC slab /chhajah /beam etc.	10mm Smooth plaster in CM (1:4) with white/color washing with lime.
	Kitchen platform Top/Counter	Sandwich Polish Granite stone Platform with S.S.Sink without drain board.(minimum size of sink 470x420x178 mm)
	Painting on wood and steel work	Superior quality ready mixed paint approved make and shade for all wood and synthetic enamel paint approved make and shade for steel work.
	Plinth protection	60 mm thick Rubber moulded paver blocks(M35) over 50 mm thick PCC (1:3:6)
	Wall Tiling / Dado	
	Kitchen	ceramic tile 300X600 up to lintel level
	Wash area	ceramic tile 300X600 up to 90cm height /window sill height
	Toilet-1	ceramic tile 300X600 up to lintel level
	Toilet-2	ceramic tile 300X600 up to lintel level
	Internal Sanitary/Water Supply System	
	W.C. Pan	wall mounting EWC-P of approved shade, conforming to Pattern 2 of IS: 2556 (Part -II), with SWR Self it Soil PVC pipe and plug bend as per specifications; glazed vitreous / Coloured European Water Closet with Dual flush cistern with grouting the CI chair in side the floor/wall, rubber gaskets, connecting PVC 110mm dia soil pipe with PVC coupling, UPVC SCH 80 Flush pipe from Tank to WC Inlet, nuts, and solid verity heavy duty plastic seat cover as per IS-2548, of approved make; hole in walls and making good etc. compete the Job.
	Internal drainage pipes.	Approved SWR quality, heavy duty, UPVC pipes - Type B Ring Fit & Self Fit Confirming to IS 13592 & Fitting confirming to IS 14735 for waste water or soil waste pipe.160/110/75 mm as per approved plumbing drawing.
	Gully Trap	Brick Masonry Chamber with Gully trap with FRC round cover.
	Chamber	Brick masonry with brick work of approve size minimum 90 x 80 cm with necessary depth as per site condition including SFRC medium duty cover.
	Internal Manhole	Slab type Manhole 1.2 m X 1.0 m /as required size on internal sewer line with with necessary depth as per site condition including SFRC Heavy duty cover.
	Pipe connecting house manhole and service manhole and onwards	Approved SWR quality, heavy duty, UPVC pipes Minimum 160mm dia. and RCC NP2 class pipes of required Diameter.
	Internal Water supply	UPVC(SCH-40) lines from OHT & terrace, From Terrace downward to all floors UPVC composite pressure pipes and fittings confirming to IS code, as per approved design.

	External Water Supply	Main/Branch network 50 mm and above dia shall be of D.I./UPVC composite pressure pipes and fittings confirming to IS code, as per approved design.
	Painting of GI/SCI pipes	Ready mixed oil paint over steel primer
	Fittings	
	Overhead tank	
	Hook for fan.	Fan hook shall be provided as per requirement.
	Internal Roads parking and paths	
	Road	Road consisting following items Sub base :Construction of 150mm granular sub-base Providing 150mm wet mix macadam layer. 75mm thick PCC(1:4:8) Concrete road as per IRC Standard approved design RCC road 150 mm thick with tremix concrete finish of grade M20 over PCC 1:4:8, 75 mm thick and with reinforcement @ 5.0 kg per sq. mt. and expansion joint filled with sealant.
	Paverblock	Paverblock consisting following items Paverblock: 60 mm thick Rubber moulded paver blocks(M35) over 75mm sand bedding and 75 mm thick PCC(1:4:8).
	Kerb Stone	CC M250 Precast Kerb stone 0.3m long and 0.3m x 0.15 m section complete as per R and B specifications and as per direction of Engineerin-charge.
	Electrification	Concealed copper wiring. One fan point, two light point ,and one plug point in each room. Also necessary point for Fridge, TV, Computer, telephone.
	Boundary wall with gates	1.80 m high from internal finished G. L. boundary wall constructed with BB Masonry with required no of MS gates of approved design with finish plaster.
	Numbering	The numbering of size 100mm in height shall be printed on Aluminum plate above the entrance door. block numbering of size 0.6 X 0.45 Cm alluminium plate
	Lift.	Façade shall be cladded with aproved granite slab at GF only.Lift shall be of approved make and as per specification mentioned in tender as lift works.
	Cement	Only OPC cement shall be used
	Staircase	Flooring of Steps, landing, trader with polished kotah stone 25 mm thick. In tread of steps, shall be of One/ two pieces. Riser of staircase steps also in polished kotastone.
	General	Efficient Rain Water harvesting network/ system to be laid / installed. Environment friendly material (green) to be used as far as possible. Good landscaped are to be provided. Necessary signage boards of required size as instructed. And society main board over all entry gate
	Fire safety	As per GDCR norms.
	Overhead tank	

UG sump	Minimum UG sump at two locations and capacity shall be arrived considering water requirement 675 liters per DU for 1 day storage. Separate UG tank for fire safety is to be provided as per norms.
Pumping Motors	Aproved make Pumping motors of required HP and capacity for each block with one standby for each block should be provided.
Where there is no specification available the decision of Executive Engineer will be final.	
LIFT	Supplying, erecting and commissioning of 6 passengers lift having following specifications 1) Size of lift well:- 1800 mm X1800 mm ; Depth of the lift pit:- 1800mm 2) Type of lift:- 6 passenger elevator of 408 kg. capacity, suitable for G + 7 floors ,G = 3.0 m, 1 to 7= 3.0m) & Total drive will be 24.0 m 3) Type of Drive system:- Variable Voltage variable Frequency Controlled 4) Rated speed:- 1.0 meter / sec . 5) Type of controller:- Full Collective Control- Simplex. 6) Car:- As per IS: 14665 - Part I / V minimum 950mm x 1200 mm x 2200mm or best fit as per shaft size with MS Girders, bracings of adequate size and Strength at the bottom and top with angle iron frame and all sides panels of stainless steel sheet of 1.5 mm Matt - hairline finish with safety factor more than 5 with PVC antiskid flooring & standard ceiling in SS hairline finish. SS Handrail in all three sides. 7) Signals:- Hail position indicator in car and Car position indicator at all landing with up / down direction indicators with call registration facility. 8) Car & landing doors:- As per IS code clear opening 1200mm wide x 2100mm high: with automatic Telescopic side opening doors made from stainless steel

(1.5 mm)-Hairline finish @ G.F. and Powder Coated @ Remaining Floors.

9) Car & Landing operating panel face plate in SS hairline finish and digital LED display.

10) Emergency light with 30 minutes back up & alarm bell.

11) Pre-announcing arrows for collective controls & position indicator.

12) False ceiling in car with LED lights; CCTV camera; concealed blower for ventilation & ventilation slits at car panel bottom level.

13) Screened infra red curtain protection on doors.

14) Audio and visual overload warning indicator.

15) Automatic rescue device.

16) Visual & acoustic confirmation of call.

17) Fireman control, intercom system & auto car light off system to be provided in car. BMS integration is to be considered over RS485 modbus RTU. Lift doors should have fire rating of 2 hrs.

18) Overload by pass Complete with control panel duly wired with proper size and strength of copper wire, control panel box of M.S. sheet, electric motor of suitable capacity, with class F insulation gearless with machine room, driving/traction pulley, diverter pulley if required, over speed governor, electromagnetic brakes, suspension wire rope, "T" section adequate size guide rails for car and counter weight, buffers and door frame etc. erected with necessary steel work, allied minor builders work such as door frames for erecting doors and scaffolding for erecting guide rails etc. complete with testing with obtaining all necessary permissions from Lift Inspector.

19) Civil work such as leveling of separator channel, plaster work, removing of projected steel bars and beams etc to satisfaction of Engineer in charge

20) Fully comprehensive AMC for the period of seven years

21) BMS compatible feature is to be installed