

## Part – II

### **Financial Bid**

#### Schedule of work

The financial bid shall cover the following works for Execution:-

1. Scope of work includes construction of Four storied (G+3) affordable Houses consisting of one living room, one bed room, one kitchen, one Water closet, one Bathroom and a balcony having total super area of 30.40 square metre as per building plan and lay out attached with document. ( Schedule D)
2. Carrying out the soil exploration as required to ascertain the safe Bearing Capacity, and to arrive upon the type of foundation to be provided. The soil exploration report clearly recommending the type of foundation, laying depth of foundation and safe Bearing capacity for the different foundation system shall be submitted in duplicate to the Executive Engineer-10, Lucknow Development Authority (Herein after called EE-10).
3. design of the building has to be carried out as per relevant and latest provisions of Indian Standard code of practice, and National Building Code, and same shall be got counter checked by IIT, Kanpur or its equivalent.
4. Since seismically Lucknow falls under zone-III of Earthquake zone, structure shall be designed as an Earthquake resistant building.
5. Structural design along with supporting drawings shall be submitted in duplicate to the EE-10 in duplicate in two sets of Hard copies and softcopies.
6. Preparation and submission of drawings related to services viz. Internal & external plumbing, sanitary works and electrical works within the block premises.
7. Construction of building using latest building techniques and practices with specification laid in Financial Bid document including all material and labour required, also including cost of necessary external services required within the the plot.



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## **SPECIFICATIONS, FINISHING & FIXTURES:**

Following specifications for the building plans enclosed with the tender to be followed as per directions of Engineer-in-Charge-

S. No.	Item of work	Description
1.	<b>Foundation and Plinth</b>	
1.1	Footing	<ul style="list-style-type: none"> <li>RCC strip footing / pile foundation / raft using designed mix not below M-20 grade.</li> <li>Existing road level shall be the 00 level.</li> </ul>
1.2	Lean concrete in foundation below RCC Footing.	<ul style="list-style-type: none"> <li>Not less than 75 mm thick 1:4:8 cement concrete (1 cement: 4 coarse sand: 8 stone aggregate 40mm size)</li> </ul>
1.3	Plinth Filling	
	a) Earth filling	<ul style="list-style-type: none"> <li>Earth filling inside as per formation level/plinth level mentioned in drawings, to be done in layers. Not more than 30.00 Cm.=.</li> </ul>
	b) Sand filling	<ul style="list-style-type: none"> <li>Local Sand 75 mm</li> </ul>
	c) Concrete under floor	<ul style="list-style-type: none"> <li>75mm of CC 1:4:8 with brick aggregate (1 cement : 4 fine sand : 8 graded brick aggregate 40mm nominal size)</li> </ul>
1.4	Walls in Foundation & plinth	<ul style="list-style-type: none"> <li>RCC using designed mix not Less then M-20 grade.</li> </ul>
1.5	Filling up depression/sunken portions in bath, WC & kitchen	<ul style="list-style-type: none"> <li>Encasing joints of pipes and traps with CC 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20mm)</li> <li>The filling shall be with klinker or graded brick aggregate 40mm nominal size for WC &amp; Bath, sunken portions.</li> <li>The filling under plinth shall be part of "Building work".</li> </ul>
1.6	Plinth level	<ul style="list-style-type: none"> <li>The plinth level shall be + 450 mm above road level.</li> </ul>
2.	<b>Super Structure Brick Work</b>	
2.1	Wall in super structure (load bearing wall )	<ul style="list-style-type: none"> <li>RCC wall not less than 100 mm thickness &amp; M-20 grade concrete in smooth finish as mentioned in the drawing.</li> </ul>
2.2	Brick Work in wall (if required)	<ul style="list-style-type: none"> <li>In 1:4 mortar (1 cement: 4 coarse sand). 115 mm thick brick wall may be provided with two 6mm diameter MS bar at after every third courses.</li> </ul>
2.3	Parapet	<ul style="list-style-type: none"> <li>100 mm thick RCC wall using not less than M-20 Concrete to give smooth finish as mentioned in the drawing.</li> </ul>
2.4	Cement Concrete Jali	<ul style="list-style-type: none"> <li>Cement concrete jali 40 mm thick as per design in toilet ventilator.</li> </ul>
3.	<b>RCC work</b>	
3.1	Intermediate slabs roof slabs	<p>RCC roofing system with minimum 100 mm thick RCC Slab in Concrete not less than M-20 with</p>



S. No.	Item of work	Description
3.3	Centering and shuttering	smooth surface. All centering & shuttering shall be able to give appropriate quality of exposed, smooth and even finish so that <b>no plastering is required.</b>
3.4	Kitchen platform	<ul style="list-style-type: none"> <li>40 mm thick RCC M-20 with necessary reinforcement with 25 mm thick kota stone slab over 20mm thick mortar 1:4(1 Cement:4 c. sand).</li> </ul>
4.	<b>Doors &amp; windows</b>	
4.1	Door & Window frames	<ul style="list-style-type: none"> <li>M.S Angle section 35x35x6mm door frame.</li> </ul>
4.2	Door Shutters	<ul style="list-style-type: none"> <li>32mm thick commercial quality ply wood flush door shutter.</li> <li>One door for W.C. One door for bathroom may be 30 mm thick factory made PVC.</li> <li>M.S. Tee &amp; Z Section window</li> </ul>
4.3	Window Shutters	Oxidised MS fittings :-
4.4	Door fittings	<ul style="list-style-type: none"> <li>One sliding door bolt 250 x 16mm for each door.</li> <li>One MS tower bolt 200x10 mm in each flush door</li> <li>One MS tower bolt 150x10 mm in each flush door</li> <li>Two MS handles 125 mm in each door</li> <li>One M.S. Tower bolt 150x10mm in centre of each PVC. Door.</li> </ul>
4.5	Window fittings (for openable shutters)	Each window shutter shall have following fittings:- <ul style="list-style-type: none"> <li>Two MS fasteners 100 mm</li> <li>Two MS casement stay of 200 mm size</li> </ul>
5.0	<b>Steel Work</b>	
5.1	M.S. Grill for windows	<ul style="list-style-type: none"> <li>MS Grill for windows will be as per design.</li> </ul>
5.2	Stair case Railing	<ul style="list-style-type: none"> <li>Railing with M.S. Hollow tube and square bar and 0.90mtr high.</li> </ul>
5.3	Verandah/Balcony	<ul style="list-style-type: none"> <li>100mm thick RCC wall height 750mm with 150mm high MS railing of M.S. Hollow tube and square bar.</li> </ul>
6.0	<b>Flooring</b>	
6.1	Base concrete/Cushion	<ul style="list-style-type: none"> <li>Base concrete as mentioned in S. No. 1.3(c)</li> </ul>
6.2.	Floor Finish	<ul style="list-style-type: none"> <li>Ceramic Glazed tiles/ anti skid tile to be used.</li> </ul>
7.0	<b>Roofing</b>	
7.1	Roof Treatment	<ul style="list-style-type: none"> <li>Brick coba including water proof treatment complete as per CPWD specifications.</li> </ul>
7.2	Rain Water pipes	<ul style="list-style-type: none"> <li>UPVC pipes 110 mm 6 KG pressure with plain bend below plinth level (at +350 level approx.)</li> </ul>
7.3	Mumty	<ul style="list-style-type: none"> <li>No mumty is proposed. However a trap door shall be provided on the last landing roof.</li> </ul>
8.	<b>Finishing</b>	
8.1	Internal Finishing	<ul style="list-style-type: none"> <li>Oil bound distemper in Type 2 &amp; 3 and dry</li> </ul>



S. No.	Item of work	Description
		distemper in Type 1 on wall and white wash on ceiling.
8.2	Dado	<ul style="list-style-type: none"> <li>Toilet:- Glazed tiles with tiles of size 200x300mm or 300x300mm, 900mm high in WC &amp; 1800mm high in bath &amp; toilet including a border/design of coloured tiles (excluding burgundy, bottle green, black and other dark colours)</li> <li>Kitchen :- with pattern in white and coloured tile of 200x300mm, or 300x300mm, 600mm high above kitchen platform.</li> </ul>
8.3	Kitchen Platform Top	<ul style="list-style-type: none"> <li>25 mm Kota stone slab over working shelf,</li> </ul>
8.4	Exterior surface	<ul style="list-style-type: none"> <li>Water proof cement paint on external walls.</li> </ul>
8.5	Primer	<ul style="list-style-type: none"> <li>All doors, window, grill, brackets.</li> </ul>
8.6	Painting	<p>निवेदा मुख्य आचार्य क. ५३</p> <p>बहि. ५३</p> <p>बहि. ५३</p> <ul style="list-style-type: none"> <li>Two or more coats of Synthetic enamel paint, (ISI marked) for all wood &amp; steel work to give an even shade.</li> </ul>
8.7	Stair case	<ul style="list-style-type: none"> <li>22mm thick Pre cast terrazzo tiles.</li> </ul>
9.	<b>Internal Sanitary/Water Supply Installations</b>	
9.1	W.C. Pan	<ul style="list-style-type: none"> <li>One number white vitreous China, 580 mm Orissa pattern pan with 10 litres low level PVC flushing cistern of approved quality.</li> </ul>
9.2	Waste Pipes for internal drainage	<ul style="list-style-type: none"> <li>Single stack system of 110 UPVC pipes including all fittings as per approved plumbing design</li> </ul>
9.4	Internal Chambers	<ul style="list-style-type: none"> <li>Brick masonry with bricks of class designation 75 (inside dimensions 90 x 80cm x 45cm) or more than 45 cm depth as per site condition with SFRC light duty cover.</li> </ul>
9.5	Pipes between house manhole and service manhole	<ul style="list-style-type: none"> <li>SW pipe 150 mm diameter, Gully Trap as required</li> </ul>
9.6	Pipes external	<ul style="list-style-type: none"> <li>15mm.20mm.25mm G.I. Medium quality B class as per approved plumbing drawing.</li> </ul>
9.7	Fittings	<ul style="list-style-type: none"> <li>ISI marked PTMT bib cocks and stop cocks - 15/20 mm.</li> </ul>
9.8	Over Head Tank	<ul style="list-style-type: none"> <li>PVC water storage common tank (HDPE with white lining of approved brand) on terrace common for 4 or 8 flats @ 300 litres for each flat including necessary fitting.</li> </ul>
9.9	Kitchen	<ul style="list-style-type: none"> <li>Stainless steel sinks without drain board in Type 2 &amp; 3.</li> </ul>





S. No.	Item of work	Description
10.0	Electrical Installations & fittings	
10.1	Electrical conduit	• PVC
10.2	Electrical M.S Box	• M.S
10.3	Switch	• Piano type
10.4	Wire	• FR wire Multi core
10.5	Gauge	• 2x4 sq.mm+ 1x4 sq.mm earth wire (For power Point). • FR wire 1.5 sq.mm + .7.5sqmm earth wire.(For light plug and light)
10.6	Electrical fixtures	• One tube light, one fan in rooms & one exhaust in kitchen.



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### LIST OF MATERIALS OF APPROVED MAKES

Unless identified in the nomenclature, the materials of first standard quality from the following approved makes are to be used. In case it is established that the brands specified below are not available in the market, contractor shall submit alternative proposal for approval of the Engineer-in-Charge.

S.No.	Description	Approved Manufacture/Brand Name
1.	Ceramic Tiles	Somani, Kajaria, Johnson, NHICO, Orient, or equivalent
2.	Primers, paints	Nerolac, Asian, Berger, Johnson & Nicholson
3.	Lime	Satna, Dehradun
4.	Sanitary ware and fittings	Parry ware, Hind ware, CERA, Neycer, Seabird/Orient (coral), Classica
5.	G.I. Pipes	Jindal, GST, Prakash, Tata
6.	Water proofing compound	Mc Bauchemie, CICO, FOSROC, PIDILITE
7.	Glass Panes	Modi, Saint Gobain, Atul, Triveni, TATA
8.	GI Fittings	Unik, R and KS or equivalent
9.	UPVC pipes & fittings	Supreme, Prince, Kasta, A.K.G.
10.	Water storage Tank	Sintex, Electoplast, Star
11.	Angle valve	As per CPWD specifications.
12.	C.P. brass bib cock	As per CPWD specifications.
13.	Soap dish	As per CPWD specifications.
14.	Towel rail	As per CPWD specifications.
18.	Stoneware pipes	ISI Make
19.	Flume Pipes of NP2 class as per IS 458-2	OSI Make

