



OFFICE OF THE PRESIDENT
NATIONAL HOUSING AUTHORITY

PROJECT : PROPOSED STANDARD FIVE STOREY LOW-RISE BUILDING
LOCATION : NCR

DESIGN PARAMETERS CONSIDERED IN THE ESTIMATES

Soil Type: Sd D
Na: 1 Wind Speed: 250 kph
Nv: 1
SBC: 100 kPa

| ITEM NO. | DESCRIPTION | QUANTITY | UNIT |
|-------------|---|-----------|-------|
| I. | EARTHWORKS | | |
| 1.01 | Excavation | 2,720.10 | cu.m |
| 1.02 | Gravel Bedding 1" | 75.84 | cu.m |
| 1.03 | Backfilling | 2,565.43 | cu.m |
| 1.04 | Soil Poisoning | 2,652.68 | sqm |
| II. | STRUCTURAL WORKS | | |
| 2.01 | Concrete Works | | |
| 2.01.1 | Footing Tie Beam, Column and Wall Footings | 324.75 | cu.m |
| 2.01.2 | Slab on Grade | 38.89 | cu.m |
| 2.01.3 | Columns | 125.80 | cu.m |
| 2.01.4 | Beams | 136.24 | cu.m |
| 2.01.5 | Suspended Slab | 181.51 | cu.m |
| 2.01.6 | Stairs | 26.05 | cu.m |
| 2.02 | Reinforcing Steel Bars | | |
| 2.02.1 | Footing (Gr. 60) | 32,353.54 | kg/s |
| 2.02.2 | Wall Footing (Gr. 40) | 356.73 | kg/s |
| 2.02.3 | Slab on Grade (Gr. 40) | 1,557.37 | kg/s |
| 2.02.4 | Suspended Slab (Gr. 40) | 10,135.79 | kg/s |
| 2.02.5 | Stairs (Gr 60) | 4,657.83 | kg/s |
| 2.02.6 | Columns | | |
| 2.02.6.1 | Grade 40 | 10,074.21 | kg/s |
| 2.02.6.2 | Grade 60 | 22,384.99 | kg/s |
| 2.02.7 | Beams | | |
| 2.02.7.1 | Grade 40 | 2,076.02 | kg/s |
| 2.02.7.2 | Grade 60 | 23,887.39 | kg/s |
| 2.02.8 | Footing Tie Beam | | |
| 2.02.8.1 | Grade 40 | 241.47 | kg/s |
| 2.02.8.2 | Grade 60 | 2,311.94 | kg/s |
| 2.03 | Masonry Works | | |
| | Interior and Exterior Walls including Plastering | | |
| 2.03.1 | 6" CHB with 10mmØ Reinforcing Steel Bars | 1,988.53 | sq.m. |
| 2.03.2 | 4" CHB with 10mmØ Reinforcing Steel Bars | 982.78 | sq.m. |
| 2.03.3 | Concrete Ledge and Window Moldings | 6.38 | cu.m |
| 2.03.4 | Plant Box | 8.00 | cu.m |
| III. | ROOFING WORKS | | |
| 3.01 | Steel Truss and Roof Framing | | |
| | Steel Framing (LC Purlins, Angle bars, Sagrods,...) | 27,019.61 | kg/s |
| 3.02 | Tinsmithry | | |
| | Ga. 26 Pre-painted Long Span GI Sheets | 339.20 | sq.m. |
| IV. | ARCHITECTURAL WORKS | | |
| 4.01 | Finishing Works | | |
| 4.01.1 | Plastering Interior and Exterior | 6,142.66 | sq.m. |
| 4.01.2 | Louver Blocks for Service Area and Roof Ventilation | 22.32 | sq.m. |
| 4.01.3 | Floor Topings | 1,811.25 | sq.m. |
| 4.01.4 | NHA Logo | 2.00 | bldg. |
| 4.01.5 | Building and Unit Number | 60.00 | bldg. |
| 4.01.6 | Concrete Kitchen Counter | 60.00 | bldg. |

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| 4.02 | Tiling Works | | |
| 4.02.1 | T&B Wall Tiles | 416.40 | sq.m |
| 4.02.2 | T&B Floor Tiles | 99.14 | sq.m |
| 4.02.3 | Kitchen Countertop/Splash Wall | 99.90 | sq.m |
| 4.03 | Ceiling Works | 184.80 | sq.m |
| 4.04 | Water Proofing | | |
| 4.04.1 | Roof Deck | 88.05 | sq.m |
| 4.04.2 | Toilet & Bath and Service Area Floor Slab | 96.00 | sq.m |
| 4.05 | Steel & Iron Works | | |
| 4.05.1 | Entrance Ramp and PWD toilet | 41.00 | l.m. |
| 4.05.2 | Stair Railings | 42.90 | l.m. |
| 4.05.3 | Service Area Railings | 60.00 | bldg. |
| 4.05.4 | Hallway Railings | 43.20 | l.m. |
| 4.05.5 | Access Ladder | 2.00 | set/s |
| 4.05.6 | Enclosure for water meter | 10.00 | set/s |
| 4.06 | Painting Works | | |
| 4.06.1 | Exterior concrete surface | 2,048.00 | sq.m |
| 4.06.2 | Interior Walls - Hallway and Stairs | 715.00 | sq.m |
| 4.06.3 | Ceiling Area | 422.50 | sq.m |
| 4.07 | Doors including Jambs, Locksets, Hinges | | |
| 4.07.1 | D1 Solid Panel Type Door, 0.90m x 2.10m | 60.00 | set/s |
| 4.07.2 | D2 Flush Type Door, 0.70m x 2.10m | 59.00 | set/s |
| 4.07.3 | D3 PVC Swing Door with PVC Louvers, 0.60m x 2.10m | 59.00 | set/s |
| 4.07.4 | D4 Hollow Core Flush Door, 0.475m x 2.10m | 60.00 | set/s |
| 4.07.5 | D5 Hollow Core Flush Swing Door with Stainless Steel Kick Plate, 0.90m x 2.10m | 1.00 | set/s |
| 4.07.6 | D6 Hollow Core Flush Swing Door, 0.90m x 2.10m | 1.00 | set/s |
| 4.08 | Windows | | |
| 4.08.1 | W1 - Steel Awning Type Window, 1.20m x 1.00m | 59.00 | set/s |
| 4.08.2 | W2 - Steel Awning Type Window, 0.60m x 0.60m | 60.00 | set/s |
| 4.08.3 | W3 - Jalousie Type Window, 1.20m x 1.20m | 60.00 | set/s |
| 4.08.4 | W4 - Jalousie Type Window, 0.60m x 1.20m | 119.00 | set/s |
| 4.08.5 | W5 - Steel Awning Type Window, 0.60m x 1.0m | 1.00 | set/s |
| V. | PLUMBING WORKS | | |
| 5.01 | Sewerline System - Vent, Soil and Waste Stack Pipeline including fittings and accessories | | |
| 5.01.1 | PVC Pipe 50mmØ x 3m (Series 1000) | 655.80 | l.m. |
| 5.01.2 | PVC Pipe 100mmØ x 3m (Series 1000) | 393.60 | l.m. |
| 5.02 | Bldg. Sewage Main-Collector System including fittings/accessories | | |
| 5.02.1 | PVC Pipe 150mmØ x 3m (Series 1000) | 86.00 | l.m. |
| 5.03 | Plumbing Fixtures | | |
| 5.03.1 | Water Closet | 60.00 | set/s |
| 5.03.2 | Kitchen Sink with Strainer, P-Trap and Kitchen Faucet | 60.00 | set/s |
| 5.03.3 | Floor Drain | 124.00 | set/s |
| 5.03.4 | T&B Faucet and Shower | 60.00 | set/s |
| 5.03.5 | Hose Bibb - Service Area | 60.00 | set/s |
| 5.03.6 | Lavatory, Wall hung including all piping and accessories | 60.00 | set/s |

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| 5.04 | Storm Drainage Collection - Downspout & Roof Drains including fittings/accessories | | |
| 5.04.1 | PVC Pipe 100mmØ x 3m (Series 1000) | 112.00 | l.m. |
| 5.04.2 | PVC Pipe 150mmØ x 3m (Series 1000) | 76.00 | l.m. |
| 5.05 | Catch Basin | 12.00 | unit/s |
| 5.06 | Cold Water System - Cold Water Distribution Lines including fittings and accessories | | |
| 5.06.1 | Cold Water Line - 19mm Ø PPR Pipe | 819.00 | l.m. |
| 5.06.2 | Cold Water Line - 32mm Ø PPR Pipe | 683.80 | l.m. |
| 5.06.3 | Cold Water Line - 50mm dia PPR Pipe | 33.80 | l.m. |
| 5.06.4 | Gate Valve - 50mm Ø (150psi) | 2.00 | set/s |
| 5.06.5 | Gate Valve - 19mm Ø (150psi) | 60.00 | set/s |
| 5.06.6 | Check Valve - 19mmØ | 60.00 | set/s |
| 5.06.7 | Water Meter - 19mmØ | 60.00 | set/s |
| VI. | ELECTRICAL WORKS | | |
| 6.01 | Roughing-ins | 1.00 | bldg. |
| 6.02 | Wires and Cables | 1.00 | bldg. |
| 6.03 | Wiring Devices and Lighting Fixtures | 1.00 | bldg. |
| 6.04 | Panelboards, Circuit Breakers and Automatic Transfer Switches | 1.00 | bldg. |
| 6.05 | Facility Electrical Generating and Storing Equipment | 1.00 | bldg. |
| VII. | FIRE DETECTION AND ALARM SYSTEM (FDAS) | | |
| 7.01 | Roughing-ins (supply and installation of raceways including fittings and connections) | 1.00 | bldg. |
| 7.02 | Wires(#16 AWG Shielded Circuit Integrity Cable (CIC)) | 1.00 | bldg. |
| 7.03 | Wiring Devices and Equipments | 1.00 | bldg. |
| 7.04 | Miscellaneous (Testing, Consumables, Supports, Connectors) | 1.00 | bldg. |
| VIII. | COMMUNITY ANTENNA TELEVISION (CATV) SYSTEM | | |
| 8.01 | Roughing-ins (supply and installation of raceways including fittings and connections) | 1.00 | bldg. |
| 8.02 | Wiring Devices (CATV Outlet) | 1.00 | bldg. |
| IX. | DATA AND COMMUNICATION | | |
| 9.01 | Roughing-ins (supply and installation of raceways including fittings and connections) | 1.00 | bldg. |
| 9.02 | Wiring Devices (Tel and Data Outlet) | 1.00 | bldg. |
| X | FIRE RESERVE TANK & PUMP ROOM | | |
| 10.01 | Supply all materials, labor, equipment and tools necessary for the execution and completion of tank & pump room as detailed Including earth, concrete & rebar works, including all other incidental works as shown in the plans & technical specifications for building. | 1.00 | unit |