

| NIGHTINGALES MEDICAL TRUST SMRITI GRAM |  |   |          |           |          |
|--|--|---|----------|-----------|----------|
| CIVIL WORKS - BLOCK 1                  |  |   |          |           |          |
| TENDER BOQ                             |  |   |          |           |          |
|  | NOTE:<br>1. All quantities are indicative. Contractor to verify actual quantities as per drawing and site condition.<br>2. Quantities may vary subject to decisions taken during construction.<br>3. Client may decide to not operate some items contained in this boq or decide to operate in part.<br>4. Any discrepancies found in the schedule should brought into the attention of the Architect before quoting.<br>5. Contractor shall take all required permissions from authorities for Excavation of Earth, Blasting of rocks, Bringing soil to the site, Carting away materials, etc. and shall bear all the expenses for the same.<br>6. Test Cubes are the responsibility of the Contractor. The of test cubes taken for various concrete constructions shall be cured for 28 days and strength must be reported after testing the same.<br>7. Taxes component additional and to be computed at end of the sheet.<br>8. Contractor must visit the site before quoting for the site and an undertaking in this regard must be signed by the contractor. |   |          |           |          |
|  | 9 Finished Floor to Floor Heights<br><b>Block 1</b> : GF : 4.20 M, FF : 4.20 M, Head room, Tanks   |   |          |           |          |
|  | 10. <b>Block 1</b> Area : <b>32,902.12</b> Sqft  |   |          |           |          |
| Sl. No.                                | Tender Items   | Unit  | Quantity | Rate      | Amount   |
| BOQ OF STRUCTURAL WORKS                |  |   |          |           |          |
| 1                                      | <b>EARTHWORK EXCAVATION &amp; FILLING</b>  |   |          |           |          |
|  | 1.01   | <b>Clearing the site</b> , clearing the grass and other overgrowth of vegetation and small trees of girth up to 30 cm including rooting out and removal of rubbish up to a distance of 150 m outside the periphery of the area cleared. Rate shall include removal of all kinds of vegetation, small shrubs etc. If there are any shrubs, bushes, trees, roots of the trees to be removed for min depth 150 cm. Lift & lead outside the site to be considered to suit the local regulations.  |          | Rate only |          |
|  | 1.02   | <b>Earth Work Excavation For Footing, Lift Pit &amp; DR masonry along builging periphery</b> In all kinds of Soil including dense soil, disintegrated / weathered / soft rock [up to a depth of 180 cm (6'-0")] below ground level and removing the excavated soil depositing on bank and lift up to 1.8m including necessary manual excavation for breaking clods, dressing of sides, ramming of bottom, and back filling the sides of excavated foundation pit, trenches and plinth with the excavated soil, including watering, ramming, sectioning of spoil bank, compacting and disposal of excess or unserviceable soil as directed by the site engineer, etc. complete. Rate to include disposing the excess earth and spreading in layers to the required levels within the site wherever specified and carting away out side the site to the designated areas.                     |          | cum       | 3,022.00 |
|  | 1.03   | <b>DR Masonry</b> Outer pherphery below plinth beam   |          | cum       | 165.61   |
|  | 1.04   | <b>Soil Filling from the available excavated earth</b> to proper grade and level with earth suitable for filling , within plinth and below flooring PCC or around the basement including re excavating the deposited soil excavated earlier at all depths/heights spreading in layers not exceeding 150 mm thick including breaking clods, storing, transportation, double handling, watering, compacting each layer with vibratory compactor and at inaccessible places with wooden / steel rammers to achieve 90 to 95% proctor density at optimum moisture content, all leads and lifts, bailing/ pumping out of water to keep site dry while backfilling; cost shall include conveyance of all materials, labour, machinery etc. complete as directed. The rate to includes loading, unloading, hire and fuel charges for tools and plants and other incidental charges etc., complete. |          |           |          |
|  | a  | In foundation   |          | cum       | 2,120.00 |

|  |   |     |           |  |  |
|--|---|-----|-----------|--|--|
| b  | In Plinth floor   | cum | 515.00    |  |  |
| 1.05   | <b>Soil Filling with earth brought from outside</b> , to proper grade and level with earth suitable for filling within plinth and below flooring PCC or around the basement at all depths/heights spreading in layers not exceeding 150 mm thick including breaking clods, storing, transportation, double handling, watering, compacting each layer with vibratory compactor and at inaccessible places with wooden / steel rammers to achieve 90 to 95% proctor density at optimum moisture content, all leads and lifts, bailing/ pumping out of water to keep site dry while backfilling; cost shall include conveyance of all materials, labour, machinery etc. complete as directed. The rate to includes loading, unloading, hire and fuel charges for tools and plants and other incidental charges etc., complete. | cum | Rate Only |  |  |
| 1.06   | Providing and constructing <b>Dry Rubble (DR) masonry 0.60m wide, 0.90 m deep</b> well packed avoiding straight vertical joints using suitable size quarried granite boulders through appropriate bonds at regular intervals including dressing the stone and edge poking by chisel / hammer to the required shape and size including all leads & lifts, cost, conveyance to site of all materials, and all labour charges etc. complete.   | cum | 331.21    |  |  |
| 1.07   | <b>Providing and applying of Anti termite treatment</b> in accordance with stipulations laid down by IS standards by approved agency with min of 10 years of guarantee including the cost of chemical, cost of application, precautionary measures etc. complete as specified by the manufacturers specifications, compliant for 10 years guarantee, etc. complete. (Approved agency preference is given to Pest Control of India)  | sqm | 2,456.44  |  |  |
| <b>SUB TOTAL : EARTH WORK EXCAVATION &amp; FILLING</b> |   |     |           |  |  |
| 2  | <b>PLAIN CEMENT CONCRETE:</b>   |     |           |  |  |
| 2.01   | <b>Providing, mixing, transporting, and laying of Plain Cement Concrete (P.C.C.) 1:4:8</b> levelling course 10 cm thick using down grade granite broken stone of 4 cm (1½") , washed & sieved manufactured sand (M-Sand) or river sand of approved quality, including supply, machine mixing, laying, tamping, compacting, curing, work to include sub grade preparation, levelling, all leads and lifts, rough finishing at the top surface and side shuttering if necessary etc. complete.  |     |           |  |  |
| a  | Base concrete for Foundation & Lift Base slab   | cum | 143.00    |  |  |
| b  | Base concrete for ground Floor  | cum | 245.00    |  |  |
| c  | Below DR Masonry Along Periphery wall.  | cum | 46.00     |  |  |
| d  | Below plinth beam   | cum | 145.24    |  |  |
| <b>SUB TOTAL : PLAIN CEMENT CONCRETE</b>               |   |     |           |  |  |
| 3  | <b>REINFORCED CEMENT CONCRETE</b>   |     |           |  |  |
|  | Important notes :   |     |           |  |  |
|  | 1. In case design mix is used the Contractor should produce the report of approval of the design mix by authorized Government Institutions or Agencies and the same shall be submitted to Structural Consultants / Owner's Representative / project management Consultants, for their clearance for the work execution.   |     |           |  |  |
|  | 2. While quoting for structural concrete work contractors are particularly advised to study the relevant drawings carefully before quoting.   |     |           |  |  |
|  | 3. In case Ready Mix Concrete is used prior approval should be obtained from the Structural Consultants / Owner's Representative / project management Consultants.  |     |           |  |  |
|  | 4. The successful tenderer shall maintain at site, cube testing machine in good working order, sieves, slump cone, graduated cylinder and weights, scales for material testing.   |     |           |  |  |
|  | 5. A qualified mechanic shall always be available during working hours for maintenance of weight batching machines.   |     |           |  |  |

|   |  |     |        |  |  |
|---|--|-----|--------|--|--|
|   | 6. Contractors shall submit drawings showing the scheme of formwork (shuttering) for all items of work detailed as under.  |     |        |  |  |
|   | 7. Formwork shall be designed for rigidity, durability, strength, water tightness, easy removal etc.,  |     |        |  |  |
|   | 8. Formwork designed with proposed materials (to be approved prior to making) shall be able to retain its shape, line, dimension, level within the allowable limits of variations. Props shall be only steel props.  |     |        |  |  |
|   | 9. Necessary arrangement shall be envisaged to provide camber in beams or slabs as per design.   |     |        |  |  |
|   | 10. Formwork & Centering is not separately calculated. Costing of the same should be included in the RCC Items, in their Cum Rates.  |     |        |  |  |
|   | 11. Design mix shall be as approved by the Structural Consultant   |     |        |  |  |
|   | 12. Test Lab Site has to be set up to test samples at regular intervals and as instructed by Structural Consultants .  |     |        |  |  |
|   | <b>Providing, mixing, transporting, and laying Cement Concrete for Reinforced Cement Concrete (R.C.C.) Works</b> , as directed and as per structural design using 2 cm (¾") nominal size and down grade hard granite broken stone, machine mixed and appropriately compacted with mechanical vibration or technically approved manner, providing cement cover blocks, form works, making construction joints, finishing, watering, curing, cost, conveyance to site of all materials and all labour charges, equipment, plant & machinery, lowering, hoisting, wastage and all incidentals etc. complete, but excluding cost of reinforcement. |     |        |  |  |
| <b>3.01</b>                                   | <b>For Footing (M25 GRADE)</b>   | cum | 718.00 |  |  |
| <b>3.02</b>                                   | <b>For Columns (M25 GRADE)</b>   |     |        |  |  |
| a   | Upto Plinth (Pedestal)   | cum | 68.00  |  |  |
| b   | Ground floor   | cum | 108.00 |  |  |
| c   | First floor  | cum | 23.00  |  |  |
| d   | Headroom   | cum | 17.00  |  |  |
| <b>3.03</b>                                   | <b>For Beams (M25 GRADE)</b>   |     |        |  |  |
| a   | Plinth   | cum | 182.00 |  |  |
| b   | First floor  | cum | 203.00 |  |  |
| c   | Terrace floor  | cum | 40.00  |  |  |
| d   | Head room  | cum | 28.00  |  |  |
| <b>3.04</b>                                   | <b>For Lintels (M25 GRADE)</b>   | cum | 36.00  |  |  |
| <b>3.05</b>                                   | <b>For Slabs (M25 GRADE)</b>   |     |        |  |  |
| a   | First floor  | cum | 367.00 |  |  |
| b   | Terrace floor  | cum | 66.00  |  |  |
| c   | Head room  | cum | 30.00  |  |  |
| <b>3.06</b>                                   | <b>For Sunshades/Ledges of thickness 75 mm, 100 mm to 120 mm (M20 GRADE)</b>   |     |        |  |  |
| a   | Ground Floor   | cum | 7.30   |  |  |
| b   | First Floor  | cum | 1.80   |  |  |
| <b>3.07</b>                                   | <b>For R.C.C Stair (Folded slab type)</b>  |     |        |  |  |
| a   | Ground to First floor  | cum | 12.00  |  |  |
| <b>SUB TOTAL : REINFORCED CEMENT CONCRETE</b> |  |     |        |  |  |
| <b>4</b>                                      | <b>REINFORCMENT STEEL</b>  |     |        |  |  |

|  |  |    |           |  |  |
|--|--|----|-----------|--|--|
|  | <b>Fabricating &amp; fixing in position REINFORCEMENT for RCC work</b> with High Strength Deformed (HSD) TMT steel bars conforming to IS 1786, of various diameters and Fe 500 grade of steel including providing, supplying, cutting to suitable length & bending, hoisting, fabricating and placing in position, overlapping wherever required, and according to structural drawings and binding the reinforcement with galvanised annealed binding wire of double fold of 18 gauge and providing Concrete cover blocks for placing the reinforcements in position and for maintaining the cover specified and/or according to all relevant IS codes, etc. complete. |    |           |  |  |
|  | Note   |    |           |  |  |
|  | 1.Unless noted otherwise the measurements will be taken in accordance with IS 1200. However reinforcement shall be measured only in lengths of bars as actually placed in position on standard weight basis, no allowance being made in the weight for rolling margin. Authorised laps and splices only will be measured. Chairs of any shape & profile, Spacer bar of any shape & profile, cover block, wastage and binding wire will not be measured and shall be included in the quoted rates. Quoted rate shall be deemed to have considered the above stipulation. Quoted rate to include lead, lift, placing at all levels and as directed.                      |    |           |  |  |
|  | 2.Allowance of wastage for steel is 3% only.   |    |           |  |  |
|  | 3.Contractor should prepare the bar bending schedule and submit to the Structural Engineer and fabrication shall be carried out as per the bar bending schedules approved.   |    |           |  |  |
| <b>4.01</b>                              | <b>For Footing</b>   | kg | 22,300.00 |  |  |
| <b>4.02</b>                              | <b>For Columns</b>   |    |           |  |  |
| a  | Upto Plinth (Pedestal)   | kg | 16,300.00 |  |  |
| b  | Ground floor   | kg | 26,000.00 |  |  |
| c  | First floor  | kg | 5,500.00  |  |  |
| d  | Headroom   | kg | 4,080.00  |  |  |
| <b>4.03</b>                              | <b>For Beams (M25 GRADE)</b>   |    |           |  |  |
| a  | Plinth   | kg | 27,300.00 |  |  |
| b  | First floor  | kg | 36,500.00 |  |  |
| c  | Terrace floor  | kg | 7,200.00  |  |  |
| d  | Head room  | kg | 5,000.00  |  |  |
| <b>4.04</b>                              | <b>For Lintels (M25 GRADE)</b>   | kg | 3,600.00  |  |  |
| <b>4.05</b>                              | <b>For Slabs (M25 GRADE)</b>   |    |           |  |  |
| a  | First floor  | kg | 33,000.00 |  |  |
| b  | Terrace floor  | kg | 5,900.00  |  |  |
| c  | Head room  | kg | 2,700.00  |  |  |
| <b>4.06</b>                              | <b>For Sunshades/Ledges of thickness 75 mm, 100 mm to 120 mm (M20 GRADE)</b>   |    |           |  |  |
| a  | Ground Floor   | kg | 475.00    |  |  |
| b  | First Floor  | kg | 117.00    |  |  |
| <b>4.07</b>                              | <b>For R.C.C Stair (Folded slab type)</b>  |    |           |  |  |
| a  | Ground to First floor  | kg | 1,300.00  |  |  |
| b  | First to Terrace   | kg | 400.00    |  |  |
|  |  |    |           |  |  |
| <b>SUB TOTAL : REINFORCMENT STEEL</b>    |  |    |           |  |  |
| <b>BOQ OF ARCHITECTURAL WORKS (ARCH)</b> |  |    |           |  |  |
| <b>5</b>                                 | <b>MASONRY WORKS</b>   |    |           |  |  |

|                                 |             |  |     |          |  |  |
|---------------------------------|-------------|--|-----|----------|--|--|
|                                 | <b>5.01</b> | Providing and constructing <b>Solid Block masonry</b> in superstructure for walls using cement concrete solid blocks with minimum compression strength 40.0 kg/Sq.cm and minimum water absorption of 10% by weight, and to confirm to IS 2185 & IS 2572 in Cement Mortar 1:6 including all form work if needed, watering, curing, cost, conveyance of all materials and all labour charges etc. with all leads and lifts, complete and including erection of all scaffolding platforms required for execution of work for <b>200 mm thick wall</b> |     |          |  |  |
|                                 | a           | Ground floor   | cum | 410.57   |  |  |
|                                 | b           | First floor  | cum | 61.76    |  |  |
|                                 | <b>5.02</b> | Providing and constructing <b>Solid Block masonry</b> in superstructure for walls using cement concrete solid blocks with minimum compression strength 40.0 kg/Sq.cm and minimum water absorption of 10% by weight, and to confirm to IS 2185 & IS 2572 in Cement Mortar 1:6 including all form work if needed, watering, curing, cost, conveyance of all materials and all labour charges etc. with all leads and lifts, complete and including erection of all scaffolding platforms required for execution of work for <b>150 mm thick wall</b> |     |          |  |  |
|                                 | a           | Ground floor   | cum | 87.46    |  |  |
|                                 | b           | First floor (including parapet)  | cum | 138.58   |  |  |
|                                 | <b>5.03</b> | Providing and constructing <b>Solid Block masonry</b> in superstructure for walls using cement concrete solid blocks with minimum compression strength 40.0 kg/Sq.cm and minimum water absorption of 10% by weight, and to confirm to IS 2185 & IS 2572 in Cement Mortar 1:6 including all form work if needed, watering, curing, cost, conveyance of all materials and all labour charges etc. with all leads and lifts, complete and including erection of all scaffolding platforms required for execution of work for <b>100 mm thick wall</b> |     |          |  |  |
|                                 | a           | Ground floor   | cum | 41.75    |  |  |
|                                 | b           | First floor  | cum | 11.38    |  |  |
|                                 | <b>5.04</b> | Providing and constructing <b>Wire cut Brick masonry</b> in specified area in superstructure for walls using burnt clay F.P.S. (non modular) bricks of size 230 mm x 110 mm x 70 mm class designation 7.5 in Cement Mortar 1:6 including all form work if needed, watering, curing, cost, conveyance of all materials and all labour charges etc. with all leads and lifts, complete and including erection of all scaffolding platforms required for execution of work for <b>230 mm thick wall</b> .   |     |          |  |  |
|                                 | a           | Ground floor   | cum | 19.00    |  |  |
|                                 | b           | First floor  | cum | 4.31     |  |  |
|                                 | <b>5.05</b> | Providing and constructing <b>Brick jali wall</b> in specified area in superstructure for walls using Jali size of 200 x 200 x 60 mm in specified Tile adhesive & specified colour (Natural red ).   |     |          |  |  |
|                                 | a           | Ground floor   | Sqm | 45.76    |  |  |
|                                 | b           | First floor  | Sqm | 13.94    |  |  |
| <b>SUB TOTAL : MASONRY WORK</b> |             |  |     |          |  |  |
| <b>6</b>                        |             | <b>PLASTERING</b>  |     |          |  |  |
|                                 | <b>6.01</b> | Preparing the surface and Providing cement plaster of 1.2 cm thickness to <b>Internal wall Plastering</b> in Cement Mortar 1:4, finished with sponge texture, including hacking, scraping, cleaning the surface, rounding of corners wherever required/specified, curing and including cost of materials, labour, all lead and lift, loading and unloading, transportation and including cost of erection of scaffolding, ties and all other incidental charges etc. complete in all floors.   |     |          |  |  |
|                                 | a           | Ground floor   | Sqm | 4,348.03 |  |  |
|                                 | b           | First floor  | Sqm | 1,456.13 |  |  |

|                                    |  |     |          |  |  |
|------------------------------------|--|-----|----------|--|--|
| <b>6.02</b>                        | Preparing the surface and Providing cement plaster of <b>12 mm thickness for Internal Ceiling plastering</b> , finished with sponge texture, to masonry walls, columns, beams, jambs and reveals etc. in cement mortar 1:5, to proper line & level, plane and plumb in all heights & levels including mouldings, bands, grooves in plaster, curing and including cost of materials, labour, all lead and lift, loading and unloading, transportation and including cost of erection of scaffolding, ties and all other incidental charges etc. complete in all floors.   |     |          |  |  |
| a                                  | Ground floor   | Sqm | 2,367.33 |  |  |
| b                                  | First floor  | Sqm | 455.61   |  |  |
| <b>6.03</b>                        | Preparing the surface and Providing cement plaster of <b>2 cm thickness for External plastering</b> , finished with sponge texture, to masonry walls, columns, beams, jambs etc in <b>2 coats, inner coat of minimum 1.2cm thick</b> in Cement Mortar 1:4 <b>outer finishing coat in Cement Mortar of mix 1:3</b> of minimum <b>0.8cm thick</b> (total 2cm minimum thickness) to proper line & level, plane and plumb in all heights & levels including mouldings, bands, grooves in plaster, curing and including cost of materials, labour, all lead and lift, loading and unloading, transportation and including cost of erection of scaffolding, ties and all other incidental charges etc. complete in all floors. |     |          |  |  |
| a                                  | Ground floor   | Sqm | 2,114.92 |  |  |
| b                                  | First floor (Including parpaet)  | Sqm | 381.71   |  |  |
| <b>6.04</b>                        | <b>Providing Terrace slab slope plastering</b> with cement mortar 1:6 with average 30 mm thick (15mm-45mm thick) mixed with nominal quantity of 6 mm gravel for laying to create slopes for water flow on the terrace, and to receive floor finish <b>on top of waterproof coating done as a separate application as per specifications</b> , including all watering, curing, and including cost of materials, labour, all lead and lift, loading and unloading, transportation and including cost of erection of scaffolding, ties and all other incidental charges etc. complete in all floors. Waterproofing coat not to be included in the rate.   |     |          |  |  |
| a                                  | Stair Room Roof  | Sqm | 26.17    |  |  |
| b                                  | Terrace Floor  | Sqm | 2,422.68 |  |  |
| <b>SUB TOTAL : PLASTERING WORK</b> |  |     |          |  |  |
| <b>TOTAL AMOUNT</b>                |  |     |          |  |  |
| <b>TOTAL IN WORDS :</b>            |  |     |          |  |  |

|  |  |                                    |
|--|--|------------------------------------|
|  | <b>DECLARATION</b>   |                                    |
|  | <p>I/ We agree to undertake to execute the work at rates quoted above in the schedule as per the specifications and conditions:</p> <p style="text-align: right;"><b>Signature of the Contractor</b></p> |                                    |
|  | <b>DATE</b> :  |                                    |
|  | <b>PLACE</b> :   |                                    |
|  | <b>Signature of the owner</b>  | <b>Signature of the Contractor</b> |