

BILL OF QUANTITIES

| Item | Description | Qty | Unit | Rate | Amount |
|--------------------|---|--------|----------------|------|--------|
| BILL No: 02 | | | | | |
| | <u>GROUND WORKS</u> | | | | |
| 2.0 | <u>GENERAL</u> | | | | |
| | (a) Rates Shall include for: leveling, grading, trimming, compecting to faces of excavation, keep sides plumb, back filling, consolidating and disposing surplus soil. | | | | |
| 2.1 | <u>EXCAVATION</u> | | | | |
| | Note: Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork/shuttering and dewatering the trenches for the required days. | | | | |
| (1) | Excavation for Footing (F1), 1.2m from NGL | 7.78 | m ³ | | |
| (2) | Excavation for Footing (F2), 1.2m from NGL | 3.07 | m ³ | | |
| (3) | Excavation for Footing (F3), 1.2m from NGL | 9.41 | m ³ | | |
| (4) | Excavation for Footing (F4), 1.2m from NGL | 1.73 | m ³ | | |
| (5) | Excavation for Stump Columns, 0.5m from NGL | 0.91 | m ³ | | |
| (6) | Excavation for Ground Beam (GB), 1.0m from NGL | 42.38 | m ³ | | |
| 2.2 | <u>BACK FILLING</u> | | | | |
| | Note:(a) Backfill quantities are measured to the faces of concrete members. Rates shall include for all additional backfilling required. Rates shall include for levelling, grading, trimming, compacting and similar. | | | | |
| | (b) Ground need to be compected to the required density by the consultant. | | | | |
| (1) | Back filling for Footings and Ground Beam | 34.79 | m ³ | | |
| (2) | Earth filling (well compacted) under ground slab and screeding. | 58.09 | m ³ | | |
| 2.3 | <u>DAMP PROOF MEMBRANE</u> | | | | |
| 2.3.1 | Note: Rates shall include for: dressing around and sealing to avoid all penetrations, laps and turnups. | | | | |
| | Polythene damp proof membrane (500 gauge) under:- | | | | |
| (1) | Footing (F1) | 6.48 | m ² | | |
| (2) | Footing (F2) | 2.56 | m ² | | |
| (3) | Footing (F3) | 7.84 | m ² | | |
| (4) | Footing (F4) | 1.44 | m ² | | |
| (5) | Stump Column | 1.82 | m ² | | |
| (6) | Ground Beam | 42.38 | m ² | | |
| (7) | Ground Slab | 309.31 | m ² | | |

| Item | Description | Qty | Unit | Rate | Amount |
|--|---|--------|----------------|------|--------|
| 2.3.2 | Apply 2 coats of Masterseal or similar brush bond damp proof membrane on all concrete and masonry plastered surfaces below ground level and up to 300mm finished floor level in accordance with manufacturer's instructions. | | | | |
| (1) | Footing (F1) | 6.57 | m ² | | |
| (2) | Footing (F2) | 3.20 | m ² | | |
| (3) | Footing (F3) | 9.45 | m ² | | |
| (4) | Footing (F4) | 2.28 | m ² | | |
| (5) | Stump Column | 3.68 | m ² | | |
| (6) | Ground Beam | 148.32 | m ² | | |
| (7) | Masonry walls below ground level | 519.11 | m ² | | |
| 2.3.3 | Apply 2 coats of Masterseal or similar brush bond water proof membrane on all concreted RCC walls in accordance with manufacturer's instructions. | | | | |
| (1) | Roof Slab | 320.24 | m ² | | |
| BILL No: 02 - GROUND WORKS TOTAL OF BILL No: 02 - Carried over to summary | | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|--------------------------------|---|-------|----------------|------|--------|
| BILL No: 03 | | | | | |
| | <u>CONCRETE</u> | | | | |
| 3.0 GENERAL | (a) Rates shall include for: provision to place in position; casting of all required items and finishing after removal of formwork and additional concrete required to conform to structural and excavated tolerances. (b) Rates shall include supply of all formwork item including form oil, timber, plywood, nails etc. (c) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:3:6 by volume. | | | | |
| 3.1 LEAN CONCRETE | Note: Quantity is measured to the edges of concrete members. Rates shall be inclusive of any additional concrete required to place the formwork. | | | | |
| (1) | 50mm thick lean concrete to Footings | 20.14 | m ² | | |
| (2) | 50mm thick lean concrete to bottom of Ground Beam | 42.38 | m ² | | |
| 3.2 REINFORCED CONCRETE | Note: In-situ reinforced concrete to: Add water proofing compound to concrete mix for walls and cover slab below ground level. | | | | |
| 3.2.1 Foundation | | | | | |
| (1) | Footing (F1) | 1.30 | m ³ | | |
| (2) | Footing (F2) | 0.51 | m ³ | | |
| (3) | Footing (F3) | 1.57 | m ³ | | |
| (4) | Footing (F4) | 0.29 | m ³ | | |
| (5) | Stump Column | 0.54 | m ³ | | |
| (6) | Ground Beam (GB) | 10.59 | m ³ | | |
| (7) | Columns C1, (220x220mm) | 0.72 | m ³ | | |
| (8) | Columns C2, (220x220mm) | 0.72 | m ³ | | |
| (9) | Columns C4, (150x150mm) | 0.67 | m ³ | | |
| 3.2.2 Ground Floor | | | | | |
| (1) | Columns C1, (220x220mm) | 3.03 | m ³ | | |
| (2) | Columns C2, (220x220mm) | 3.03 | m ³ | | |
| (3) | Columns C4, (150x150mm) | 2.82 | m ³ | | |
| (4) | 75mm thick ground slab | 23.20 | m ³ | | |
| (4) | Lintel Beams | 0.68 | m ³ | | |

| Item | Description | Qty | Unit | Rate | Amount |
|-------|--|--------|----------------|------|--------|
| 3.2.3 | Roof Level | | | | |
| (1) | Attached Beams RB1, (200x300mm) | 3.76 | m ³ | | |
| (2) | Attached Beams RB2, (200x300mm) | 0.35 | m ³ | | |
| (3) | Attached Beams RB3, (200x300mm) | 1.47 | m ³ | | |
| (4) | Roof Slab, 135mm thick | 39.26 | m ³ | | |
| (5) | Roof Slab, 150mm thick | 4.41 | m ³ | | |
| 3.3 | FORMWORK | | | | |
| | Note: Rates shall include for: all necessary boarding, supports, erecting, framing, temporary cambering, cutting, perforations for reinforcing bars, bolts, straps, Grounds, hangers, pipes and removal of formwork. | | | | |
| 3.3.1 | Foundation | | | | |
| (1) | Footing (F1) | 5.76 | m ² | | |
| (2) | Footing (F2) | 2.56 | m ² | | |
| (3) | Footing (F3) | 8.96 | m ² | | |
| (4) | Footing (F4) | 1.92 | m ² | | |
| (5) | Stump Column | 3.24 | m ² | | |
| (6) | Ground Beam (GB) | 105.94 | m ² | | |
| (7) | Columns C1, (220x220mm) | 13.02 | m ² | | |
| (8) | Columns C2, (220x220mm) | 13.02 | m ² | | |
| (9) | Columns C4, (150x150mm) | 17.76 | m ² | | |
| 3.3.2 | Ground Floor | | | | |
| (1) | Columns C1, (220x220mm) | 55.05 | m ² | | |
| (2) | Columns C2, (220x220mm) | 55.05 | m ² | | |
| (3) | Columns C4, (150x150mm) | 75.07 | m ² | | |
| (4) | Lintel Beams | 13.53 | m ² | | |
| 3.3.3 | Roof Level | | | | |
| (1) | Attached Beams RB1, (200x300mm) | 91.27 | m ² | | |
| (2) | Attached Beams RB2, (200x300mm) | 8.60 | m ² | | |
| (3) | Attached Beams RB3, (200x300mm) | 35.61 | m ² | | |
| (4) | Roof Slab, 135mm thick | 290.82 | m ² | | |
| (5) | Roof Slab, 150mm thick | 29.43 | m ² | | |
| 3.4 | REINFORCEMENT | | | | |
| | Note: (a) Rates shall include for: cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including Ground wire and chair supports, laps and wastage. | | | | |
| | (b) All reinforcing bars except 6mm dia bars shall be high strength deformed bars. | | | | |
| | (c) The exact length exclusive of laps are given. The rates shall take into account laps and any wastage. | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|---|---|------|----------------|------|--------|
| 3.4.1 | <u>Foundation</u> | | | | |
| (1) | <u>In Pad Footings F1, F2, F3, F4</u> | | | | |
| 1 | 12 mm dia. bars in footings | 0.28 | t | | |
| (2) | <u>In Ground beam (200x250mm)</u> | | | | |
| 1 | 12 mm dia. bars in ground beam | 0.75 | t | | |
| 2 | 6 mm dia. bars in ground beam | 0.28 | t | | |
| (3) | <u>In Columns C1, C2, C4</u> | | | | |
| 1 | 20 mm dia. bars in columns | 0.15 | t | | |
| 2 | 16 mm dia. bars in columns | 0.09 | t | | |
| 3 | 10 mm dia. bars in columns | 0.07 | t | | |
| 4 | 6 mm dia. bars in columns | 0.07 | t | | |
| 3.4.2 | <u>Ground Floor</u> | | | | |
| (1) | <u>In Columns C1, C2, C4</u> | | | | |
| 1 | 20 mm dia. bars in columns | 0.62 | t | | |
| 2 | 16 mm dia. bars in columns | 0.40 | t | | |
| 3 | 10 mm dia. bars in columns | 0.31 | t | | |
| 4 | 6 mm dia. bars in columns | 0.31 | t | | |
| (2) | <u>In Ground Slab</u> | | | | |
| 1 | 10 mm dia. bars in ground beam | 1.92 | t | | |
| (3) | <u>In Lintel Beams</u> | | | | |
| 1 | 10 mm dia. bars in ground beam | 0.07 | t | | |
| 2 | 6 mm dia. bars in columns | 0.03 | t | | |
| 3.4.3 | <u>Roof Level</u> | | | | |
| (1) | <u>Roof Beam RB1, RB2, RB3</u> | | | | |
| 1 | 16 mm dia. bars in beams | 0.72 | t | | |
| 2 | 12 mm dia. bars in beams | 0.27 | t | | |
| 3 | 6 mm dia. bars in beams | 0.27 | t | | |
| (2) | <u>Roof Slab</u> | | | | |
| 1 | 10 mm dia. bars in slab | 3.96 | t | | |
| 3.5 | <u>OTHER CONCRETE WORKS</u> | | | | |
| | Note: In-situ reinforced concrete to: | | | | |
| | Rates shall include all necessary formworks, shuttering, reinforcements, painting and all other necessary works required to cast and finish the concrete described. | | | | |
| (1) | 135mm thick slab in padded cell (Refer drawing for details and specifications) | 0.12 | m ³ | | |
| (2) | 150 x150 mm beam in padded cell (Refer drawing for details and specifications) | 0.07 | m ³ | | |
| BILL No: 03 - CONCRETE | | | | | |
| TOTAL OF BILL No: 03 - Carried over to summary | | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|--|---|----------|----------------|------|--------|
| BILL No: 04 | | | | | |
| | <u>MASONRY AND PLASTERING</u> | | | | |
| 4.0 GENERAL | (a) Rates shall include for: blocks, cutting or leaving holes and openings as recesses, building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashing, bedding frames. (b) Mix ratio for Plastering & masonry shall be 1:4 Cement Mortar, Ground rods, compression gap filler, nylon / plastic mesh as specified. | | | | |
| 4.1 ALL EXTERNAL WALLS | | | | | |
| 4.1.1 <u>150mm thick solid brick wall</u> | | | | | |
| (1) Under ground | | 55.98 | m ² | | |
| (2) Ground floor | | 232.83 | m ² | | |
| 4.2 ALL INTERNAL WALLS | | | | | |
| 4.2.1 <u>150mm thick solid brick walls</u> | | | | | |
| (1) Under ground | | 99.43 | m ² | | |
| (2) Ground floor | | 363.12 | m ² | | |
| (3) Toilet walls | | 45.13 | m ² | | |
| (4) Toilet walls 1.5m high | | 7.22 | m ² | | |
| 4.3 PLASTERING | | | | | |
| 4.3.1 Note: 20mm Thick cement plastering on all UNDER GROUND WALLS and concrete surface with 1:4 cement mortar mix as specified incl. wire mesh at joints of concrete surfaces and walls (first, second coats). | | | | | |
| (1) Under ground | | 332.84 | m ² | | |
| 4.3.2 Note: 20mm Thick cement plastering on all EXTERNAL WALLS and concrete surface with 1:4 cement mortar mix as specified incl. wire mesh at joints of concrete surfaces and walls (first, second coats). | | | | | |
| (1) Ground floor | | 246.59 | m ² | | |
| 4.3.3 Note: 12mm Thick cement plastering on all INTERNAL WALLS and concrete surface with 1:4 cement mortar mix as specified incl. wire mesh at joints of concrete surfaces and walls (first, second coats). | | | | | |
| (1) Ground floor | | 1,051.66 | m ² | | |
| (2) Toilet walls | | 90.26 | m ² | | |
| (3) Toilet walls, 1.5m high | | 14.44 | m ² | | |

| Item | Description | Qty | Unit | Rate | Amount |
|---|---|--------|----------------|------|--------|
| 4.4 | <u>CEMENT SCREED FINISH</u> Note: 75mm Thick cement screed on the concrete floor with 1:4 cement mortar mix incl. float finish to receive the tiles and floor paint where necessary. | | | | |
| (1) | Ground floor | 309.29 | m ² | | |
| 4.5 | <u>STEEL FENCE</u> (a) Fabrication and completion of heavy duty steel net fence with GI framing. (b) Rates shall include all necessary framing, bracing and welding required to complete the works. (c) Rates shall include for 1 coat of red oxide paint and 2 coats of enamel paint. (d) Top and Bottom bracing using 50mm dia GI pipe. (e) 50mm dia GI pipe for vertical supports at 900mm c/c. (f) 50mm dia GI pipe in middle as horizontal support at 1200mm from masonry wall. | | | | |
| (1) | Steel Fence, 2.4m high, 25m length | 1.00 | item | | |
| BILL No: 04 - MASONRY AND PLASTERING | | | | | |
| TOTAL OF BILL No: 04 - Carried over to summary | | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|---|---|-------|----------------|------|--------|
| BILL No: 05 | | | | | |
| | <u>CEILING</u> | | | | |
| 5.0 GENERAL | | | | | |
| 1.0 | Rates shall include for: all labour in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles and similar and complete with cleats, packers, wedges and timber beeding, etc.... similar nail and screws. | | | | |
| 5.1 <u>TIMBER FRAME GYPSUM BOARD CEILING</u> | | | | | |
| | 9mm thick gypsum board ceiling as specified with all necessary framing, beading, screws etc. | | | | |
| (1) | Control Room | 29.00 | m ² | | |
| BILL NO: 05 - CEILINGS | | | | | |
| TOTAL OF BILL No: 05 - Carried over to summary | | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|---|--|-------|------|------|--------|
| BILL NO: 06 | | | | | |
| | <u>DOORS AND WINDOWS</u> | | | | |
| 6.0 | <u>GENERAL</u> | | | | |
| | (a) Rates shall include for locks, latches, closures, push plates, pull handles, bolts, kick plates, hinges, door closer, door stoppers and all door & window hardware. | | | | |
| | (b) Rates shall include for door frames, mullions, transoms, trims, glazing, tinting, timber panels, boarding, framing, lining, fastenings and all fixings. | | | | |
| | (c) All Aluminium door and windows shall be 60-80 micron aluminium. | | | | |
| | (d) All Timber doors shall Solid timber paneled door with paint finish. | | | | |
| | (e) All Windows Glazing shall be 6-12mm blue reflective glass. (see door and window schedule) | | | | |
| 6.1 | <u>Metal door units</u> | | | | |
| | (a) Fabrication, and installation of metal door units as per the specifications given in the drawing including required paint finish. (Refer drawing for details and specification.) | | | | |
| | (b) For hinge and locking details, refer to the drawing. | | | | |
| (1) | G1 | 1.00 | nos | | |
| (2) | G2 | 2.00 | nos | | |
| (3) | G3 | 2.00 | nos | | |
| (4) | GD1 | 9.00 | nos | | |
| (5) | SD1 | 2.00 | nos | | |
| (6) | V2 | 11.00 | nos | | |
| (7) | V3 | 9.00 | nos | | |
| (8) | V4 | 1.00 | nos | | |
| 6.2 | <u>Timber door units</u> | | | | |
| | Fabrication, and installation of wooden door units as per the specifications given in the drawing including required paint finish. | | | | |
| (1) | D1 | 2.00 | nos | | |
| (2) | D2 | 9.00 | nos | | |
| 6.3 | <u>Aluminium panel/door/window units</u> | | | | |
| (1) | V1 | 1.00 | nos | | |
| BILL NO: 06 -DOORS AND WINDOWS | | | | | |
| TOTAL OF BILL No: 06 - Carried over to summary | | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|---|--|-------|----------------|------|--------|
| BILL NO: 07 | | | | | |
| | <u>FINISHES</u> | | | | |
| 7.0 | <u>GENERAL</u> Rates for tiling shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. | | | | |
| 7.1 | <u>FLOOR FINISHES</u> <u>Ground Floor</u> | | | | |
| 7.1.1 | 600x600mm Homogenous tiles. | | | | |
| (1) | Control Room | 29.00 | m ² | | |
| (2) | Monitor Area | 10.23 | m ² | | |
| (3) | Restroom | 5.67 | m ² | | |
| 7.1.2 | 300x300mm non-skid ceramic tiles in toilet floor. | 3.98 | m ² | | |
| 7.2 | <u>WALL FINISHES</u> | | | | |
| (1) | 300x300mm ceramic tiles in toilet walls, 2.1m high | 16.90 | m ² | | |
| 7.3 | <u>Tile Skirting</u> Note: Rates shall include for: Cutting and installation of 100mm height tile skirting. Fix as per manufactures instructions. | | | | |
| (1) | Ground Floor (Monitor Area, Control Room & Rest Room) | 45.57 | m | | |
| 7.4 | <u>Padded Cell</u> Note: Rates shall include for: Cutting and installation of padded material. Fix as per manufactures instructions. | | | | |
| (1) | Installation of polyurethane foam padded material with heavy duty canvas or leather cover, on floor, walls and back side of door (SG1) of padded cell. | 55.80 | m ² | | |
| BILL No: 07 - FINISHES | | | | | |
| TOTAL OF BILL No: 07 - Carried over to summary | | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|---|---|----------|----------------|------|--------|
| BILL No: 08 | | | | | |
| | <u>PAINTING</u> | | | | |
| 8.0 GENERAL | (a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work, removing and replacing door window furniture (b) All painting work shall be carried in accordance with the Specifications of "NIPPON PAINT or Equivalent". | | | | |
| 8.1 WALLS, CEILING, SLAB & CONCRETE SURFACES | | | | | |
| 8.1.1 | Note: Oil based paint on plastered and concrete surfaces of all masonry walls and concrete surfaces . 1 coat of wall sealer and 2 coats of paint. | | | | |
| (1) | External Walls | 246.59 | m ² | | |
| (2) | Internal Walls | 1,156.36 | m ² | | |
| (3) | Ceiling | 29.00 | m ² | | |
| (4) | Under roof slab | 290.82 | m ² | | |
| 8.1.2 | Application of 2 coats of floor paint finish "NIPPON" or Equivalent". | | | | |
| (1) | Cell floor and toilets | 197.47 | m ² | | |
| (2) | Open area | 54.48 | m ² | | |
| 8.2 WATER PROOFING | | | | | |
| | Note: Rates shall include for: dressing around and sealing to all penetrations. Apply 2 coats Master seal 550 or equivalent type water proofing material to the surface of roof slab in accordance with the specifications and manufacturer's instruction. | | | | |
| (1) | Roof slab | 290.82 | m ² | | |
| BILL No: 08 - PAINTING | | | | | |
| TOTAL OF BILL No: 08 - Carried over to summary | | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|--------------------|---|-------|------|------|--------|
| BILL No: 09 | | | | | |
| | <u>HYDRAULICS & DRAINAGE</u> | | | | |
| 9.0 | <u>GENERAL</u> | | | | |
| | (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. | | | | |
| | (b) All pipe work and fittings shall be high pressure PVC. | | | | |
| 9.1 | <u>PIPE WORK</u> | | | | |
| | (1) Allow for ground water connection and internal pipe works well to all toilets, laundarys inc. supply and laying of all pipe works. | 1.00 | item | | |
| | (2) Allow for fresh water connection and internal pipework rain water tank to all toilets, laundarys, kitchen and counters inc. supply and laying of all pipes. | 1.00 | item | | |
| 9.2 | <u>SANITARY FIXTURES & ACCESSORIES</u> | | | | |
| 9.2.1 | <u>Toilet for Duty Officers</u> | | | | |
| | Note: (a)Sanitary fixtures complete including brackets, stop valves, fittings etc. | | | | |
| | (b) All fixtures shall be ' COTTO ' or equivalent approved by the consultant. | | | | |
| | (c) All pipes shall be of 'UPVC' . | | | | |
| | (1) Water Closet | 1.00 | nos | | |
| | (2) Wash Basin | 1.00 | nos | | |
| | (3) Floor drain | 1.00 | nos | | |
| | (4) Muslim Shower | 1.00 | nos | | |
| | (5) Stop Valves (ground and fresh water) | 2.00 | nos | | |
| | (6) Tap | 1.00 | nos | | |
| 9.2.2 | <u>Toilet-Cell</u> | | | | |
| | Note: (a)Sanitary fixtures complete including brackets, stop valves, fittings etc. | | | | |
| | (b) All fixtures shall be of stainless steel as per the drawing where required and shall be approved by the consultant. | | | | |
| | (c) All pipes shall be of 'UPVC' . | | | | |
| | (1) Water Closet | 9.00 | nos | | |
| | (2) Floor drain | 9.00 | nos | | |
| | (3) Muslim Shower | 9.00 | nos | | |
| | (4) Stop Valves (ground and fresh water) (PVC) | 18.00 | nos | | |
| | (5) Tap | 9.00 | nos | | |

| Item | Description | Qty | Unit | Rate | Amount |
|---|--|------|------|------|--------|
| 9.3 | <u>PUMP SYSTEM</u> Note: Supply and installation of appropriate capacity water pump (fresh water and ground water) complete pump system with automatic control board including connecting valves to pipework and electricity as per requirements "Davy, Grundfos or equivalent". | | | | |
| (1) | For Ground Water Connection | 1.00 | nos | | |
| (2) | For Fresh Water Connection | 1.00 | nos | | |
| 9.4 | <u>DRAINAGE</u> Note: (a) Rates shall include for excavation, maintaining faces of drain pipe trenches and pits, backfilling, disposal of surplus soil, bends, junctions, reducers, expansion joints and all joints and other incidental materials. (b) All pipework shall be PVC | | | | |
| 9.4.1 | <u>Discharge pipe work</u> | | | | |
| (1) | All pipe connection from fixtures and upto the inspection chamber. | 1.00 | item | | |
| (2) | Connecting to the Septic tank. | 1.00 | item | | |
| 9.4.2 | <u>Inspection chamber</u> | | | | |
| (1) | PCC Inspection Chambers (800 x 800 x 800) as per the details and specifications mentioned in the drawing. | 6.00 | nos | | |
| 9.4.3 | <u>Settlement Tank</u> | | | | |
| (1) | Solid PCC Settlement tank (1000 x 400 x 800 x 60mm thk) with steel grating on top, as per the details and specifications mentioned in the drawing. | 4.00 | nos | | |
| 9.4.4 | <u>Septic Tank</u> | | | | |
| (1) | Construction of septic tank as per drawings. Rates shall include for form work, reinforcement and completion of all necessary works. | 1.00 | item | | |
| 9.4.5 | <u>Padded Cell</u> Provision of 50mm drainage channels in padded cell including 1.5" drainage pipes as shown in drawing. | | | | |
| (2) | 50mm drainage channel | 1.96 | m | | |
| (3) | Installation of 150mm length 1.5" dia PVC drainage pipes | 7.00 | nos | | |
| BILL No: 09 - HYDRAULICS & DRAINAGE | | | | | |
| TOTAL OF BILL No: 09 - Carried over to summary | | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|---|--|-------|------|------|--------|
| BILL No: 10 | | | | | |
| <u>ELECTRICAL & SPECIFIC INSTALLATIONS</u> | | | | | |
| 10.0 | <u>GENERAL</u> | | | | |
| | (a) Design, provide and install electrical network for the entire building complete in accordance to the standards set by the local governing body 'STELCO'. | | | | |
| | (b) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories | | | | |
| | (c) Rates for work in trench shall include for: excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers, warning tape and disposal of surplus spoil. | | | | |
| | (d) Rates for electrical isolators, conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces. | | | | |
| | (e) Light end and switch end of wiring together measured as one point. | | | | |
| | (f) A point wiring for power points is measured as one point for each socket outlet; other end of wire is not included in the quantity. | | | | |
| | (g) Rates shall include for supply and complete installation. | | | | |
| | (h) Three phase power supply. | | | | |
| 10.1 | <u>MAIN CONNECTIONS</u> | | | | |
| | (1) Allow for connection to electrical mains from out side substation to main panel board.(1x 4 core 10 mm square pvc/pvc copper conductor cable) | 22.00 | m | | |
| | (2) Allow for connection to electrical mains from main panel board to floor floor distribution boards. | 1.00 | item | | |
| 10.2 | <u>ELECTRICAL BOARDS</u> | | | | |
| | Note: Complete installation, including for all connections, earthing, painting, testing and similar of: | | | | |
| | (1) 3 phase Electric meter | 1.00 | nos | | |
| | (2) 3 Phase Distribution Board | 1.00 | nos | | |
| 10.3 | <u>ELECTRICAL WIRING</u> | | | | |
| | Note: Electrical wiring with copper conductor cable in conduits in walls and concrete as per government regulations including necessary D-boards at each level. | | | | |
| | (1) Wiring to Lights and fans. | 1.00 | item | | |
| | (2) Wiring to Socket outlets. | 1.00 | item | | |

| Item | Description | Qty | Unit | Rate | Amount |
|-------------|---|-------|------|------|--------|
| 10.4 | <u>ELECTRICAL FIXTURES</u> Note: All lights shall be of 'PHILIPS brand or equivalent', all switches, sockets etc. shall be 'LEGRAND brand or equivalent'. | | | | |
| (1) | 265V LED Light (3LED) Luminous Flux weather proof. | 30.00 | nos | | |
| (2) | High Voltage Outdoor Flood Light 1500W | 10.00 | nos | | |
| (3) | Emergency light 4 hours non maintained. | 6.00 | nos | | |
| (4) | Wall mount orbit fan | 9.00 | nos | | |
| (5) | Ceiling fan (1.2m dia) | 4.00 | nos | | |
| (6) | One way switch (1gang) | 3.00 | nos | | |
| (6) | One way switch (2gang) | 2.00 | nos | | |
| (7) | One way switch (4gang) | 3.00 | nos | | |
| (8) | One way switch (5gang) | 4.00 | nos | | |
| (9) | 2x13 Amp Socket out let | 8.00 | nos | | |
| (10) | 2x15 Amp Socket out let | 2.00 | nos | | |
| 10.5 | <u>TELECOMUNICATION SYSTEM</u> (1) Note: Telephone networking cables with DBs including all necessary wiring, fittings, and connection from the concern authorities and PABX etc.. for state no. of lines and number of extensions. | | | | |
| (1) | Telephone extension sockets | 2.00 | nos | | |
| 10.6 | <u>IT NETWORK</u> Provide & install with all necessary wiring, fittings & accessories IT Network System for the entire building as per drawings, specifications & contractor's shop drawings subject to consultants approval. | | | | |
| (1) | Network extension sockets | 5.00 | nos | | |
| (2) | Network Gigabit Switch | 1.00 | nos | | |
| (3) | Wall mount rack 6U | 1.00 | nos | | |
| 10.8 | <u>AIR-CONDITIONING</u> Supply and installation of appropriate capacity "HITACHI" or equivalent Ceiling Cassette Inverter Air Condition including electricity and complete . Rates shall include pipes, fixing and all necessary works. Contractor's shall submit shop drawings subject to consultants approval | | | | |
| (1) | 24000 BTU Inverter AC (Ceiling Cassette) | 1.00 | nos | | |
| (2) | 9000 BTU Inverter AC (Ceiling Cassette) | 1.00 | nos | | |

| Item | Description | Qty | Unit | Rate | Amount |
|---|--|------|------|------|--------|
| 10.9 | <u>FIRE FIGHTING</u> Provide & install fire fighting equipment inclusive of all necessary connection as per local regulations as described. | | | | |
| (1) | CO2 Fire Extinguisher(2kg) | 2.00 | nos | | - |
| (2) | H2O Water Extinguisher(9ltr, 13A) | 2.00 | nos | | - |
| 10.10 | <u>SURVEILLANCE</u> Note: - All cameras, Dome Vandal Proof Camera - Use CAT6 cable - 24 port PoE - DVR Recording Mode 1: Continuous, Time Schedule, Motion Detection. - DVR Recording Mode 2: E-mail alert, Multi Channel Playback, Real time. - Number of cameras: 21 - DVR/NVR channels: 24 - Hard drive capacity: 32TB SATA - IR night vision: Up to 82ft | | | | |
| (1) | Supply and installation of surveillance security camera system for the locations mentioned in the drawing. Rates shall include fixing and all necessary works. | 1.00 | item | | |
| BILL No: 10 - ELECTRICAL | | | | | |
| TOTAL OF BILL No: 10 - Carried over to summary | | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|---|--|-------|------|------|--------|
| BILL No:11 | | | | | |
| | <u>FURNITURE</u> | | | | |
| 11.0 GENERAL | Note: (a) Rates shall include for supply and installation of furnitures. | | | | |
| (1) | Office table 1200x 700 mm with attached drawer set. color: (walnut / gray) | 1.00 | nos | | |
| (2) | Low back, swivel office chair with arm rest including hydraulic height adjustmet and lockable reclining mechanism. (Material: Fabric, Color: Black) | 1.00 | nos | | |
| (3) | Medium back, swivel office chair with arm rest including hydraulic height adjustmet and lockable reclining mechanism. (Material: Fabric, Color: Black) | 4.00 | nos | | |
| (4) | Fabrication of Reception counter as per the drawings. Rates shall include for frames, wood works, including all other necessary works. | 1.00 | item | | |
| (5) | Fabrication of wall mount shelf and cupboard in rest room, as per the drawings. Rates shall include for frames, wood works, including all other necessary works. | 1.00 | item | | |
| (6) | Fabrication and completion of steel bunk bed (refer drawing for details) | 18.00 | nos | | |
| BILL No: 11-FURNITURE | | | | | |
| TOTAL OF BILL No: 11 - Carried over to summary | | | | | |

[illegible]

| Item | Description | Qty | Unit | Rate | Amount |
|--|-------------------|-----|------|------|--------|
| BILL No:13 | | | | | |
| | <u>OMMISSIONS</u> | | | | |
| BILL No: 13 -OMISSIONS TOTAL OF BILL No: 13 - Carried over to summary | | | | | |