HW Construction PLC

Takeoff Sheet

Project G+1Residential Building

Page 1

| pcs | LXWXH | | | pcs | LXWXH | | |
|---|---|---|---|---|---|---|---|
| | | | **A. SUB STRUCTURE** | | | | **1.4 pit excavation in ordinary soil.Giving 250mm work space for each side** |
| | | | **1.Excavation and Earthwork** | | | | |
| | | | **1.1 Site Clearing** | 2 | 1.6 | | pit excavation to an avarage depth of 150cm |
| 1 | 19.81 | | site clearance to an avarage depth of 0.2m | | 1.60 | | |
| | 13.88 | | and 1m working space on each side | | 1.50 | | F1 |
| | | 274.963 | | | | 7.68 | |
| | | **274.96** | ***m² total area of site cleared.*** | 2 | 1.6 | | |
| | | | **1.2.Bulk Excavation** | | 1.60 | | |
| 1 | 19.31 | | Bulk excavation to an average depth of 0.5 | | 0.70 | | detto to an avarage depth of 70cm |
| | 12.88 | | and 0.5m working space o n each side | | | 3.584 | |
| | 0.50 | | | 5 | 1.80 | | |
| | | 124.356 | | | 1.80 | | |
| | | **124.36** | ***m³ total Volume of bulk excavaion.*** | | 1.50 | | F2 |
| | | | **1.3 Trench excavation giving work space 250mm in each sides .** | | | 24.3 | |
| 1 | 11.20 | | | 5 | 1.80 | | |
| | 1.00 | | | | 1.80 | | |
| | 1.50 | | On Axis X/03 | | 0.70 | | detto to an avarage depth of 70cm |
| | | 16.80 | | | | 11.34 | |
| 1 | 12.00 | | | 4 | 2.00 | | |
| | 1.00 | | | | 2.00 | | |
| | 1.50 | | on axis X02 | | 1.50 | | F3 |
| | | 18.00 | | | | 24 | |
| 1 | 4.87 | | | 4 | 2.00 | | |
| | 1.00 | | | | 2.00 | | |
| | 1.50 | | on axis X01 | | 0.70 | | detto to an avarage depth of 70cm |
| | | 7.31 | | | | 11.2 | |
| 1 | 7.78 | | | 2 | 2.20 | | |
| | 1.00 | | | | 2.20 | | |
| | 1.50 | | on axis X01' | | 1.50 | | F4 |
| | | 11.67 | | | | 14.52 | |
| 1 | 7.3 | | | 2 | 2.20 | | |
| | 1 | | | | 2.20 | | |
| | 1.5 | | on axis Y01 | | 0.70 | | detto to an avarage depth of 70cm |
| | | 10.95 | | | | 6.776 | |
| 1 | 1.45 | | | 2 | 2.40 | | |
| | 1 | | | | 2.40 | | |
| | 1.5 | | on axis Y02' | | 1.50 | | F5 |
| | | 2.18 | | | | 17.28 | |
| 1 | 8.755 | | | 2 | 2.40 | | |
| | 1 | | | | 2.40 | | |
| | 1.5 | | on axis Y05 | | 0.70 | | detto to an avarage depth of 70cm |
| | | 13.13 | | | | 8.064 | |
| | | **80.04** | ***m³ total Volume of treanch excavaion.*** | 2 | 1.60 | | |
| | | | | | 2.00 | | |
| | | | | | 1.5 | | F6 |
| | | | | | | 9.6 | |
| | | | | 2 | 1.60 | | |
| | | | | | 2.00 | | |
| | | | | | 0.7 | | detto to an average depth of 70cm |
| | | | | | | 4.48 | |
| | | | | | | **142.824** | ***m³ total volume of pit excavation*** |

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|---|---|---|---|
| | | | **1.5 Back fill around foundation with selected borrowed material** |
| | | | ***volume of footing*** |
| 2 | 1.1 | | Rectangular concret volume of F1 |
| | 1.1 | | |
| | 0.2 | | |
| | | -0.484 | |
| 5 | 1.3 | | Rectangular concret volume of F2 |
| | 1.3 | | |
| | 0.25 | | |
| | | -2.1125 | |
| 4 | 1.5 | | Rectangular concret volume of F3 |
| | 1.5 | | |
| | 0.3 | | |
| | | -2.7 | |
| 2 | 1.7 | | Rectangular concret volume of F4 |
| | 1.7 | | |
| | 0.35 | | |
| | | -2.023 | |
| 2 | 1.9 | | Rectangular concret volume of F5 |
| | 1.9 | | |
| | 0.4 | | |
| | | -2.888 | |
| 2 | 1.1 | | rectangular concret volume of F6 |
| | 1.5 | | |
| | 0.2 | | |
| | | -0.66 | |
| | | | ***volume of foundation column*** |
| 5 | 0.3 | | |
| | 0.2 | | Rectangular concret volume of C1 on F1 |
| | 1.9 | | |
| | | -0.57 | |
| 4 | 0.3 | | Rectangular concret volume of C1 on F2 |
| | 0.2 | | |
| | 1.85 | | |
| | | -0.444 | |
| 2 | 0.30 | | Rectangular concret volume of C1 on F3 |
| | 0.20 | | |
| | 1.80 | | |
| | | -0.22 | |
| 2 | 0.30 | | |
| | 0.20 | | Rectngular concret volume of C1 on F4 |
| | 1.90 | | |
| | | -0.23 | |
| 2 | 0.30 | | Rectangular concret volume of C1 on F5 |
| | 0.20 | | |
| | 1.70 | | |
| | | -0.204 | |
| 2 | 0.07 | | circular concret volume of C3 on F6 with |
| | 1.85 | | 300cm diameter |
| | | -0.259 | |
| | | | |
| | | **-12.79** | **sumation of foot and column volume** |
| | | **130.03** | ***m³ total volume of back fill around footing and column*** |

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|---|---|---|---|
| | | | **1.6 Detto but ,around stone masonry** |
| 1 | 11.20 | | |
| | 0.50 | | on axis X03 |
| | 1.50 | | |
| | | -8.4 | |
| 1 | 12.00 | | |
| | 0.50 | | on axis X02 |
| | 1.50 | | |
| | | -9 | |
| 1 | 4.87 | | |
| | 0.50 | | on axis X01 |
| | 1.50 | | |
| | | -3.6525 | |
| 1 | 7.78 | | |
| | 0.50 | | on axis X01' |
| | 1.50 | | |
| | | -5.835 | |
| 1 | 7.30 | | |
| | 0.50 | | on axis Y01 |
| | 1.50 | | |
| | | -5.475 | |
| 1 | 1.45 | | |
| | 0.50 | | on axis Y02' |
| | 1.50 | | |
| | | -1.0875 | |
| 1 | 8.76 | | |
| | 0.50 | | on axis Y05 |
| | 1.50 | | |
| | | -6.57 | |
| | | **-40.02** | **sumation of masonry size** |
| | | **40.02** | ***m³ total volume of back fill around stone masonry*** |
| | | | **masonry work** |
| 1 | 16.40 | | |
| | 0.50 | | on axis X03 |
| | 1.50 | | |
| | | 12.3 | |
| 1 | 16.60 | | |
| | 0.50 | | on axis X02 |
| | 1.50 | | |
| | | 12.45 | |
| 1 | 6.62 | | |
| | 0.50 | | on axis X01 |
| | 1.50 | | |
| | | 4.965 | |
| 1 | 9.48 | | |
| | 0.50 | | on axis X01' |
| | 1.50 | | |
| | | 7.11 | |
| 1 | 9.55 | | |
| | 0.50 | | on axis Y01 |
| | 1.50 | | |
| | | 7.1625 | |
| 1 | 1.86 | | |
| | 0.50 | | on axis Y02' |
| | 1.50 | | |
| | | 1.395 | |
| 1 | 10.71 | | |
| | 0.50 | | on axis Y05 |
| | 1.50 | | |
| | | 8.0325 | |
| | | **53.415** | ***M³ total volume of stone masonry work*** |

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|---|---|---|---|
| | | | **1.7 Fill under hard core with selected material** |
| 1 | 5.1 | | |
| | 5.05 | | on axis b/n Y01-Y02 |
| | 0.1 | | |
| | | 2.5755 | |
| 1 | 3.5 | | |
| | 3.15 | | |
| | 0.10 | | on axis b/n Y02-Y03 |
| | | 1.1025 | |
| 1 | 3.3 | | |
| | 3.15 | | |
| | 0.1 | | on axis b/n Y03-Y04 |
| | | 1.0395 | |
| 1 | 3.15 | | |
| | 3.05 | | |
| | 0.1 | | on axis b/n Y04-Y05 |
| | | 0.96075 | |
| 1 | 3.5 | | |
| | 1.45 | | |
| | 0.1 | | on axis b/n Y02-Y03 |
| | | 0.5075 | |
| 1 | 3.3 | | |
| | 1.45 | | |
| | 0.10 | | on axis b/n Y03-Y04 |
| | | 0.957 | |
| 1 | 3.05 | | |
| | 1.45 | | |
| | 0.1 | | on axis b/n Y04-Y05 |
| | | 0.44 | |
| 1 | 5.05 | | |
| | 0.75 | | |
| | 0.1 | | on axis b/n Y01-Y02 |
| | | 0.37875 | |
| 1 | 5.05 | | |
| | 2.45 | | |
| | 0.1 | | on axis b/n Y01-Y02 |
| | | 1.23725 | |
| 1 | 3.8 | | |
| | 3.5 | | |
| | 0.1 | | on axis b/n Y02-Y06 |
| | | 1.33 | |
| 1 | 2.532 | | |
| | 1.06 | | |
| | 0.10 | | on axis b/n Y02'-Y03 |
| | | 0.26839 | |
| 1 | 3.8 | | |
| | 3.30 | | |
| | 0.10 | | on axis Y03-Y04 |
| | | 1.254 | |
| 1 | 3.8 | | |
| | 3.05 | | |
| | 0.10 | | on axis b/n Y04-Y05 |
| | | 1.159 | |
| 1 | 6.621 | | |
| | 1.06 | | on axis Y03'-Y05 |
| | 0.10 | | |
| | | 0.70183 | |
| | | **13.91** | ***m³ total volume of fill under hard core with selected material*** |

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|---|---|---|---|
| | | | **1.8 cartaway of surples material** |
| 1 | 274.96 | | |
| | 0.2 | | |
| | | 54.992 | total volume of site clearance |
| | 124.36 | | |
| | | 124.36 | total volume of bulk excavation |
| | 124.38 | | |
| | | 124.38 | total volume of tranch excavation |
| | 142.82 | | |
| | | 142.82 | total volume of pit excavation |
| | | | |
| | | **446.552** | ***m³ total volume of cartaway*** |
| | | | **1.9 hard core 250mm thick** |
| | | | **sumation of length and width of each panel** |
| 1 | 5.1 | | |
| | 5.05 | | on axis b/n Y01-Y02 |
| | | 25.76 | |
| 1 | 3.5 | | |
| | 3.15 | | on axis b/n Y02-Y03 |
| | | 11.03 | |
| 1 | 3.30 | | |
| | 3.15 | | on axis b/n Y03-Y04 |
| | | 10.40 | |
| 1 | 3.15 | | |
| | 3.05 | | on axis b/n Y04-Y05 |
| | | 9.61 | |
| 1 | 3.5 | | |
| | 1.45 | | on axis b/n Y02-Y03 |
| | | 5.08 | |
| 1 | 3.3 | | |
| | 1.45 | | on axis b/n Y03-Y04 |
| | | 4.785 | |
| 1 | 3.05 | | |
| | 1.45 | | on axis b/n Y04-Y05 |
| | | 4.4225 | |
| 1 | 5.05 | | |
| | 0.75 | | on axis b/n Y01-Y02 |
| | | 3.79 | |
| 1 | 5.05 | | |
| | 2.45 | | on axis b/n Y01-Y02 |
| | | 12.3725 | |
| 1 | 3.80 | | |
| | 3.50 | | on axis Y02-Y03 |
| | | 13.3 | |
| 1 | 2.532 | | |
| | 1.055 | | on axis Y02'-Y03 |
| | | 2.67126 | |
| 1 | 3.80 | | |
| | 3.3 | | on axis b/n Y03-Y04 |
| | | 12.54 | |
| 1 | 3.80 | | |
| | 3.05 | | on axis b/n Y04-Y05 |
| | | 11.59 | |
| 1 | 6.621 | | |
| | 1.055 | | on axis b/n Y03'-Y05 |
| | | 6.99 | |
| | | **134.34** | ***m³ volume of hard core*** |

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|---|---|---|---|
| | | | **2. Concrete work** |
| | | | **2.1 5cm thick lean concrete class C-5** |
| | | | **2.1.1 Under footing pad** |
| 2 | 1.10 | | |
| | 1.10 | | F1 |
| | | 2.42 | |
| 5 | 1.30 | | |
| | 1.30 | | F2 |
| | | 8.45 | |
| 4 | 1.50 | | |
| | 1.50 | | F3 |
| | | 9.00 | |
| 2 | 1.70 | | |
| | 1.70 | | F4 |
| | | 5.78 | |
| 2 | 1.9 | | |
| | 1.9 | | F5 |
| | | 7.22 | |
| 2 | 1.5 | | |
| | 1.1 | | F6 |
| | | 3.30 | |
| | | **36.17** | ***m² area of lean cocrete under foundation*** |
| | | | **2.1.2 Under Stone masonry and grade beam** |
| 1 | 79.81 | | L=11.2+8.65+6.1+12+5.05+1.461+7.3+6.5+ |
| | 0.50 | | 1.45+6.65+6.4+7.045=79.81m |
| | | **39.91** | ***m² area of lean cocrete under stone masonry*** |
| | | **39.91** | ***m² area of lean cocrete under grade beam*** |
| | | **115.99** | ***m² area of lean cocrete*** |
| | | | **2.2 RCC C-25** |
| | | | **2.2.1 ground floor slab** |
| 1 | 5.1 | | |
| | 5.05 | | |
| | 0.1 | | on axis b/n Y01-Y02 |
| | | 2.58 | |
| 1 | 3.5 | | |
| | 3.15 | | |
| | 0.1 | | on axis b/n Y02-Y03 |
| | | 1.10 | |
| 1 | 3.30 | | |
| | 3.15 | | |
| | 0.1 | | on axis b/n Y03-Y04 |
| | | 1.04 | |
| 1 | 3.15 | | |
| | 3.05 | | |
| | 0.1 | | on axis b/n Y04-Y05 |
| | | 0.96 | |
| 1 | 3.5 | | |
| | 1.45 | | |
| | 0.1 | | on axis b/n Y02-Y03 |
| | | 0.51 | |
| 1 | 3.3 | | |
| | 1.45 | | |
| | 0.1 | | on axis b/n Y03-Y04 |
| | | 0.4785 | |
| 1 | 3.05 | | |
| | 1.45 | | |
| | 0.15 | | on axis b/n Y04-Y05 |
| | | 0.66338 | |
| 1 | 5.05 | | |
| | 0.75 | | |
| | 0.10 | | on axis b/n Y01-Y02 |
| | | 0.38 | |
| 1 | 5.05 | | |
| | 2.45 | | |
| | 0.10 | | on axis b/n Y01-Y02 |
| | | 1.23725 | |
| 1 | 3.80 | | |
| | 3.50 | | |
| | 0.10 | | on axis Y02-Y03 |
| | | 1.33 | |
| 1 | 2.532 | | |
| | 1.055 | | |
| | 0.1 | | on axis Y02'-Y03 |
| | | 0.26713 | |
| 1 | 3.80 | | |
| | 3.30 | | |
| | 0.1 | | on axis b/n Y03-Y04 |
| | | 1.254 | |
| 1 | 3.80 | | |
| | 3.05 | | |
| | 0.1 | | on axis b/n Y04-Y05 |
| | | 1.159 | |
| 1 | 6.621 | | |
| | 1.055 | | |
| | 0.1 | | on axis b/n Y03'-Y05 |
| | | 0.70 | |
| | | **13.66** | ***m3 total Volume of C-25 Rcc in ground slab*** |

| | LXWXH | | |
|---|---|---|---|
| | | | **2.2.2 under footing pad** |
| 2 | 1.1 | | |
| | 1.1 | | |
| | 0.2 | | F1 |
| | | 0.484 | |
| 5 | 1.3 | | |
| | 1.30 | | |
| | 0.25 | | F2 |
| | | 2.1125 | |
| 4 | 1.5 | | |
| | 1.50 | | |
| | 0.30 | | F3 |
| | | 2.7 | |
| 2 | 1.7 | | |
| | 1.70 | | |
| | 0.35 | | F4 |
| | | 2.023 | |
| 2 | 1.9 | | |
| | 1.90 | | |
| | 0.40 | | F5 |
| | | 2.888 | |
| 2 | 1.50 | | |
| | 1.10 | | |
| | 0.20 | | F6 |
| | | 0.66 | |
| | | **10.8675** | ***m³ total Volume of C-25 Rcc in foundation*** |
| | | | **2.2.3 Foundation Columns** |
| 5 | 1.9 | | |
| | 0.20 | | |
| | 0.30 | | C1 on F1 |
| | | 0.57 | |
| 4 | 1.85 | | |
| | 0.20 | | |
| | 0.30 | | C1 on F2 |
| | | 0.444 | |
| 2 | 1.80 | | |
| | 0.2 | | |
| | 0.3 | | C1 and C2 on F3 |
| | | 0.216 | |
| 2 | 1.75 | | |
| | 0.20 | | |
| | 0.30 | | C1 and C2 on F4 |
| | | 0.21 | |
| 2 | 1.70 | | |
| | 0.2 | | |
| | 0.30 | | C1 on F5 |
| | | 0.204 | |
| 2 | 1.85 | | A= Πd²/4= Π 0.30²/4 =0.0755 |
| | 0.0755 | | C1 on F6 circular ΠD²/4 |
| | | 0.27935 | |
| | | **1.92** | ***m3 total Volume of C-25 Rcc in foundation column*** |
| | | | **2.2.4 Grade beam** |
| 1 | 17.40 | | |
| | 0.20 | | |
| | 0.4 | | GB1 on 0.00 elevation |
| | | 1.392 | |
| 1 | 9.90 | | |
| | 0.20 | | |
| | 0.40 | | GB1' on 0.00 elevation |
| | | 0.792 | |
| 1 | 7.70 | | |
| | 0.20 | | |
| | 0.40 | | GB1" on 0.00 elevation |
| | | 0.616 | |
| 1 | 4.2 | | |
| | 0.20 | | |
| | 0.40 | | GB2 on 0.00 elevation |
| | | 0.336 | |
| 1 | 5.8 | | |
| | 0.20 | | |
| | 0.40 | | |
| | | 0.464 | |
| 1 | 11.60 | | |
| | 0.20 | | |
| | 0.40 | | GB3 on 0.00 elevation |
| | | 0.928 | |
| 1 | 3.66 | | |
| | 0.20 | | |
| | 0.40 | | GB4 on 0.00 elevation |
| | | 0.2928 | |

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| 1 | 3.00 | | | 2 | 1.90 | | |
| | 0.20 | | | | 0.30 | | C1 on F1 rectangle columun |
| | 0.40 | | GB5 on -0.3 elevation and B-B section | | | 2.28 | |
| | | 0.24 | | 2 | 1.90 | | |
| 1 | 1.50 | | | | 0.2 | | C1 on F1 rectangle columun |
| | 0.20 | | | | | 1.52 | |
| | 0.70 | | GB5 on 0.00 elevation and G-G section | 2 | 1.70 | | |
| | | 0.21 | | | 0.30 | | C1 on F5 rectangle columun |
| 1 | 5.70 | | | | | 2.04 | |
| | 0.20 | | | 2 | 1.7 | | |
| | 0.40 | | GB5 on 0.00 elevation and A-A section | | 0.20 | | C1 on F5 rectangle columun |
| | | 0.456 | | | | 1.36 | |
| 4 | 10.02 | | | 2 | 1.85 | | |
| | 0.20 | | | | 0.47 | | C1 on F6 circle columun ∏r=0.47 |
| | 0.40 | | GB6 and GB7 on 0.00 elevation | | | 3.48 | |
| | | 3.2064 | | | | **30.63** | ***m² total area of form work in fundation column*** |
| 2 | 1.85 | | | | | | **3.3 Grade beam** |
| | 0.20 | | | 1 | 17.40 | | |
| | 0.40 | | GB8 on 0.00 elevation | | 0.40 | | GB1 on 0.00 elevation |
| | | 0.296 | | | | 13.92 | |
| 1 | 4.50 | | | 1 | 9.90 | | |
| | 0.20 | | | | 0.40 | | GB1' on 0.00 elevation |
| | 0.40 | | GB9 on 0.00 elevation | | | 7.92 | |
| | | 0.36 | | 1 | 7.70 | | |
| | | **9.5892** | ***m³ total Volume of C-25 Rcc in grade beams.*** | | 0.40 | | GB1'' on 0.00 elevation |
| | | **36.04** | ***m³ total Volume of C-25 Rcc.*** | | | | |
| | | | **3.provide cut and fix in position form work** | | | 6.16 | |
| | | | **3.1 under footing pads** | 1 | 4.20 | | |
| 2 | 1.1 | | | | 0.40 | | GB2 on 0.00 elevation |
| | 0.20 | | F1 square pad | | | 3.36 | |
| | | 1.76 | | 1 | 5.80 | | |
| 5 | 1.30 | | | | 0.40 | | GB3 on -0.30 elevation |
| | 0.25 | | F2 square pad | | | 4.64 | |
| | | 6.5 | | 1 | 3.66 | | |
| 4 | 1.50 | | | | 0.40 | | GB4 on 0.00 elevation |
| | 0.30 | | F3 square pad | | | 2.928 | |
| | | 7.2 | | 1 | 3.00 | | |
| 2 | 1.70 | | | | 0.40 | | GB5 on -0.30 elevation and B-B section |
| | 0.35 | | F4 square pad | | | 2.4 | |
| | | 4.76 | | 1 | 1.50 | | |
| 2 | 1.9 | | | | 0.70 | | GB5 on 0.00 elevation and G-G section |
| | 0.40 | | F5 square pad | | | 2.10 | |
| | | 6.08 | | 1 | 5.7 | | |
| 2 | 1.10 | | | | 0.40 | | GB5 on 0.00 elevation and A-A section |
| | 0.2 | | F6 rectangular pad with 1.1m lengh | | | 4.56 | |
| | | 0.88 | | 4 | 10.20 | | |
| 2 | 1.50 | | | | 0.4 | | GB6 and GB7 on 0.00 elevation |
| | 0.20 | | F6 rectangular pad with 1.5m lengh | | | 32.64 | |
| | | 1.2 | | 1 | 1.85 | | |
| | | **28.38** | ***m² total area of form work in footing pad*** | | 0.4 | | GB8 on 0.00 elevation |
| | | | .3.2 Foundation columun | | | 1.48 | |
| 5 | 1.85 | | | 1 | 4.50 | | |
| | 0.3 | | C1 on F2 rectangle column | | 0.40 | | GB9 on 0.00 elevation |
| | | 5.55 | | | | 3.6 | |
| 5 | 1.85 | | | | | **85.71** | ***m² total area of form work in grade beam*** |
| | 0.20 | | C1 on F2 rectangle column | | | **144.72** | ***m² total area of form work*** |
| | | 3.7 | | | | | |
| 4 | 1.80 | | | | | | |
| | 0.30 | | C1 on F3 rectangle column | | | | |
| | | 4.32 | | | | | |
| 4 | 1.80 | | | | | | |
| | 0.20 | | C1 on F3 rectangle column | | | | |
| | | 2.88 | | | | | |
| 2 | 1.75 | | | | | | |
| | 0.3 | | C1 on F4 rectangle column | | | | |
| | | 2.1 | | | | | |
| 2 | 1.75 | | | | | | |
| | 0.20 | | C1 on F4 rectangle column | | | | |
| | | 1.40 | | | | | |

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| | LXWXH | | | | LXWXH | | |
|---|---|---|---|---|---|---|---|
| | | | **B.SUPER STRUCTURE** | 1 | 5.62 | | |
| | | | **above ground slab** | | 0.20 | | |
| | | | **1. Concrete work** | | 0.30 | | TTB4 |
| | | | **Reinforced concrete class C- 25** | | | 0.34 | |
| | | | **1.1. Elevation columns** | 5 | 10.20 | | |
| | | | **Elevation columns from level ±0.00 to +3.06** | | 0.20 | | |
| 15 | 2.66 | | | | 0.30 | | 2TTB5,2TTB6 and 1TTB7 |
| | 0.20 | | | | | 3.06 | |
| | 0.30 | 2.39 | 13C1 and 2C2 | 2 | 2.64 | | |
| | | | | | 0.20 | | |
| 4 | 2.26 | | A= Πd²/4= Π 0.30²/4 =0.0755 | | 0.30 | | TTB8 |
| | 0.075 | 0.68 | C3 | | | 0.3168 | |
| | | | | | | **7.20** | *m³ total volume of concrete work on top tie beam* |
| 1 | 2.26 | | | | | **15.06** | *m³ total volume of beam* |
| | 0.20 | | | | | | **1.3 Solid Slab** |
| | 0.20 | 0.09 | C4 | | | | **first floor slab** |
| | | **3.16** | *m³ total volume of concrete work on column* | 1 | 5.45 | | |
| | | | ***at 0.00 to 3.06 elevation*** | | 5.50 | | |
| | | | | | 0.15 | | AXIS B/n X03-X02 OR Y01-Y02 |
| | | | **Elevation columns from level ±3.06 to ±6.12** | | | 4.50 | |
| 15 | 2.76 | | | 1 | 5.50 | | |
| | 0.2 | | | | 4.25 | | |
| | 0.30 | | 13C1 and 2C2 | | 0.15 | | AXIS B/n X02-X01 OR Y01-Y02 |
| | | 2.484 | | | | 3.51 | |
| 4 | 2.76 | | A= Πd²/4= Π 0.30²/4 =0.0755 | 1 | 6.10 | | |
| | 0.0755 | | C3 | | 3.80 | | |
| | | 0.83352 | | | 0.15 | | AXIS B/n X02'-X01 OR Y02-Y03 |
| | | **3.31752** | *m³ total volume of concrete work on column* | | | 3.477 | |
| | | | ***at 3.06 to 6.12elevation*** | 1 | 7.30 | | |
| | | | **Tank columun** | | 3.60 | | |
| 1 | 3.43 | | | | 0.15 | | AXIS B/n X03-X02' OR Y03-Y05 |
| | 0.20 | | | | | 3.94 | |
| | 0.30 | | | 1 | 7.30 | | |
| | | **0.21** | *m³total volume of tank column* | | 6.10 | | |
| | | **6.69** | *m²total volume of columns* | | 0.15 | | AXIS B/n X02'-X01 OR Y03-Y05 |
| | | | **1.2.Beams** | | | 6.68 | |
| | | | **First Floor beam** | | | | **catiliver slab** |
| 2 | 5.9 | | | 1 | 3.66 | | |
| | 0.20 | | | | 1.36 | | |
| | 0.40 | | FB1 | | 0.15 | | AXIS B/n X01-X01' OR Y02-Y03 |
| | | 0.94 | | | | 0.74664 | |
| 1 | 8.8 | | | 1 | 5.90 | | |
| | 0.20 | | | | 0.495 | | |
| | 0.40 | | FB2 | | 0.15 | | AXIS B/n Y01-Y02 |
| | | 0.70 | | | | 0.438075 | |
| 1 | 11.7 | | | 1 | 7.70 | | |
| | 0.20 | | | | 0.495 | | |
| | 0.40 | | FB3 | | 0.15 | | AXIS B/n Y03-Y05 |
| | | 0.94 | | | | 0.57 | |
| 1 | 17.8 | | | 1 | 4.10 | | |
| | 0.20 | | | | 0.81 | | |
| | 0.40 | | FB4 | | 0.15 | | AXIS B/n Y04-Y05 |
| | | 1.42 | | | | 0.50 | |
| 1 | 10 | | | | | **24.36** | *m3 total volume of concrete work on first floor slab* |
| | 0.20 | | | | | | **tank slab** |
| | 0.40 | | FB5 | 1 | 1.52 | | |
| | | 0.80 | | | 1.00 | | |
| 3 | 10.2 | | | | 0.90 | | |
| | 0.20 | | | | | **1.37** | *m³total volume of tank salb* |
| | 0.50 | | FB6 | | | **25.73** | *m³total volume of salb* |
| | | 3.06 | | | | | **1.4 stair case** |
| | | **7.86** | *m³ total volume of concrete work on first floor beam* | | | | **landing beam** |
| | | | **Top Tie Beam** | 1 | 3.10 | | |
| 3 | 17.80 | | | | 0.20 | | |
| | 0.20 | | | | 0.30 | | |
| | 0.3 | | 2TTB1 and 1TTB2 | | | 0.19 | |
| | | 3.204 | | | | | **landing slab** |
| 1 | 4.70 | | | 1 | 2.7 | | |
| | 0.20 | | | | 1.30 | | |
| | 0.3 | | TTB3 | | 0.15 | | |
| | | 0.282 | | | | 0.5265 | |
| | | | | | | | **steps** |
| | | | | 16 | 1.31 | | |
| | | | | | 0.30 | | |
| | | | | | 0.17 | | 0.3 / 0.17 |
| | | | | | | 0.53448 | A=0.5 x 0.17 x 0.3 =0.0255 |

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| | LXWXH | | | | LXWXH | | |
|---|---|---|---|---|---|---|---|
| | | | **Inclined slab** | | | | |
| 2 | 3.7 | | | 1 | 5.90 | | |
| | 1.31 | | | | 0.2 | | FB3'on width side or soffit |
| | 0.16 | | | | | 1.18 | |
| | | 1.55 | | 1 | 17.80 | | |
| | | **2.80** | ***m³ Total volume of concrete on stair case*** | | 0.40 | | FB4 on depth side |
| | | | | | | 7.12 | |
| | | | **2. provide cut and fix in position form work** | 1 | 17.80 | | |
| | | | **2.1 Elevation column** | | 0.25 | | FB4 on overlap side with slab |
| | | | **Elevation columns from level ±0.00 to +3.06** | | | 4.45 | |
| 13 | 2.60 | | | 1 | 17.8 | | |
| | 0.30 | | C1 on depth side | | 0.20 | | FB4 on width side |
| | | 20.28 | | | | 3.56 | |
| 13 | 2.6 | | | 1 | 10.00 | | |
| | 0.20 | | C1 on width side | | 0.4 | | FB5 on depth side |
| | | 13.52 | | | | 4 | |
| 2 | 2.26 | | | 1 | 10.00 | | |
| | 0.3 | | C2 on depth side | | 0.25 | | FB5 on overlap side with slab |
| | | 2.712 | | | | 2.50 | |
| 2 | 2.26 | | | 1 | 10.00 | | |
| | 0.20 | | C2 on width side | | 0.20 | | FB5 on width side |
| | | 1.808 | | | | 2 | |
| 4 | 2.26 | | ∏r=0.47 | 2 | 10.2 | | b/n slab |
| | 0.47 | | C3 circular column | | 0.35 | | FB6 on overlap side with slab |
| | | 4.25 | | | | 14.28 | |
| 1 | 1.13 | | | 2 | 10.20 | | |
| | 0.20 | | C4 above stair beam | | 0.2 | | FB6 on width side |
| | | 0.904 | | | | 4.08 | |
| 1 | 1.23 | | | 1 | 10.20 | | on slab end |
| | 0.2 | | C4 below stair beam | | 0.40 | | FB6 on depth side |
| | | 0.984 | | | | 4.08 | |
| | | **44.46** | ***m² total area of form work on column*** | 1 | 10.20 | | |
| | | | **Elevation columns from level ±3.06 to ±6.12** | | 0.35 | | FB6 on overlap side with slab |
| 13 | 2.76 | | in both sides | | | 3.57 | |
| | 0.30 | | C1 on depth side | 1 | 10.2 | | |
| | | 21.528 | | | 0.20 | | FB6 on width side |
| 13 | 2.76 | | | | | 2.04 | |
| | 0.2 | | C1 on width side | | | **75.18** | ***m² total area of form work on first floor beam*** |
| | | 14.352 | | | | | **Top Tie Beam** |
| 2 | 2.70 | | in both sides | 3 | 17.80 | | in both side |
| | 0.30 | | C2 on depth side | | 0.30 | | 2TTB1 and 1TTB2 on depth side |
| | | 3.24 | | | | 32.04 | |
| 2 | 2.70 | | | 3 | 17.8 | | |
| | 0.20 | | C2 on width side | | 0.20 | | 2TTB1 and 1TTB2 on width side |
| | | 2.16 | | | | 10.68 | |
| 1 | 2.76 | | ∏r=0.47 | 1 | 4.70 | | in both side |
| | 0.47 | | C3 circular column | | 0.3 | | TTB3 on depth side |
| | | 1.2972 | | | | 2.82 | |
| | | **42.58** | ***m² total area of form work on column*** | 1 | 4.70 | | |
| | | **87.04** | ***m² total area of form work on column in all elevation*** | | 0.20 | | TTB3 on width side |
| | | | | | | 0.94 | |
| | | | **2.2 Beams** | 1 | 5.62 | | in both side |
| | | | **first floor beam** | | 0.30 | | TTB4 on depth side |
| 1 | 5.90 | | | | | 3.372 | |
| | 0.25 | | FB1 on overlap side with slab | 1 | 5.62 | | |
| | | 1.475 | | | 0.20 | | TTB4 on width side |
| 1 | 5.90 | | | | | 1.124 | |
| | 0.40 | | FB1 on depth side | 5 | 10.20 | | in both side |
| | | 2.36 | | | 0.30 | | 2TTB5,2TTB6 and 1TTB7 on depth |
| 1 | 5.9 | | | | | 30.6 | |
| | 0.20 | | FB1 on width side | 5 | 10.20 | | |
| | | 1.18 | | | 0.20 | | 2TTB5,2TTB6 and 1TTB7 on width |
| 1 | 8.80 | | in both sides | | | 10.2 | |
| | 0.25 | | FB2 on overlap side with slab | 2 | 2.64 | | in both side |
| | | 4.4 | | | 0.30 | | TTB8 on depth side |
| 1 | 8.80 | | | | | 3.168 | |
| | 0.20 | | FB2 on width side | 2 | 2.64 | | |
| | | 1.76 | | | 0.20 | | TTB8 on width side |
| 1 | 11.70 | | | | | 1.056 | |
| | 0.25 | | FB3 on overlap side with slab | | | **96.00** | ***m² total area of form work on top tie beam*** |
| | | 5.85 | | | | **171.18** | ***m² total area of form work on beam*** |
| 1 | 11.70 | | | | | | |
| | 0.20 | | FB3 on width side or soffit | | | | ***2.3 Solid Slab*** |
| | | 2.34 | | | | | **tank slab** |
| 1 | 5.9 | | | 1 | 1.52 | | |
| | 0.25 | | FB3' on overlap side with slab | | 1.00 | | |
| | | 2.95 | | | | **1.52** | ***soffit*** |
| | | | | 1 | 1.52 | | |
| | | | | | 0.90 | | |
| | | | | | | **5.47** | ***4 sides*** |
| | | | | | | **6.99** | ***m²total area of form work on tank slab*** |

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| | LXWXH | | | | LXWXH | | |
|---|---|---|---|---|---|---|---|
| | | | **First Floor Slab** | | | | **3.Block work** |
| 1 | 5.50 | | | | | | **3.1ground floor** |
| | 5.45 | | AXIS B/n X03-X02' OR Y01-Y02 | | | | **0.2m thick HCB wall** |
| | | 29.975 | | | | | **Front elevation** |
| 1 | 5.50 | | | 1 | 17.40 | | |
| | 4.25 | | AXIS B/n X02--X01 OR Y01-Y02 | | 2.66 | | |
| | | 23.375 | | | | 46.28 | |
| 1 | 6.10 | | | | | | **Dedaction for door and window** |
| | 3.80 | | AXIS B/n X02'-X01 OR Y02-Y03 | 1 | 5.30 | | |
| | | 23.18 | | | 2.96 | | |
| 1 | 7.3 | | | | | 15.69 | car port |
| | 3.60 | | AXIS B/n X03-X02' OR Y03-Y5 | 1 | 1.15 | | |
| | | 26.28 | | | 0.70 | | |
| 1 | 7.30 | | | | | 0.81 | W5 |
| | 6.1 | | AXIS B/n X02'-X01 OR Y03-Y5 | 1 | 2.75 | | |
| | | 44.53 | | | 2.64 | | |
| | | | **cantiliver slab** | | | 7.26 | D4 |
| 1 | 3.664 | | | 2 | 2.50 | | |
| | 1.36 | | AXIS B/n X01-X01' OR Y02-Y03 | | 2.40 | | |
| | | 4.98 | | | | 12.00 | WD3 |
| 2 | 1.36 | | | 5 | 0.20 | | |
| | 0.15 | | | | 2.66 | | |
| | | 0.41 | | | | 2.66 | front column |
| 1 | 3.66 | | | | | **38.42** | ***m²total area of dedaction*** |
| | 0.15 | | | | | **7.86** | ***m² total area of block on front elevation*** |
| | | 0.55 | | | | | **Rear elevation** |
| 1 | 5.9 | | | 1 | 17.40 | | |
| | 0.495 | | AXIS B/n Y01-Y02 | | 2.66 | | |
| | | 2.9205 | | | | 46.28 | |
| 1 | 5.90 | | | | | | **Dedaction for door and window** |
| | 0.15 | | | 1 | 2.50 | | |
| | | 0.885 | | | 2.40 | | |
| 4 | 0.495 | | | | | 6.00 | WD3 |
| | 0.15 | | 2 on axis yo1-y02 & 2 on axis y03-y05 | 2 | 2.50 | | |
| | | 0.297 | | | 1.50 | | |
| 1 | 7.70 | | | | | 7.50 | W6 |
| | 0.495 | | AXIS B/n Y03-Y05 | 2 | 0.60 | | |
| | | 3.8115 | | | 1.15 | | |
| 1 | 7.70 | | | | | 1.38 | W1 |
| | 0.15 | | | 5 | 0.20 | | |
| | | 1.155 | | | 2.66 | | |
| 1 | 4.10 | | | | | 2.66 | rear column |
| | 0.81 | | AXIS B/n Y04-Y05 | | | **17.54** | ***m²total area of dedaction*** |
| | | 3.321 | | | | **28.74** | ***m² total area of block on rear elevation*** |
| 2 | 0.82 | | | | | | **left side elevation** |
| | 0.15 | | | 1 | 10.30 | | |
| | | 0.246 | | | 2.66 | | |
| 1 | 4.10 | | | | | **27.398** | |
| | 0.15 | | | | | | **Dedaction for door and window** |
| | | 0.615 | | 1 | 3.60 | | |
| | | **166.53** | ***m² total area of form work on first floor slab*** | | 0.90 | | WD3' |
| | | **173.52** | ***m² total area of form work on slabs*** | | | 3.24 | |
| | | | **2.5.4 Stair Case** | 3 | 0.20 | | |
| | | | **landing Beam** | | 2.66 | | |
| 1 | 2.7 | | | | | 1.60 | left side column |
| | 0.3 | | | | | 4.84 | ***m²total area of dedaction*** |
| | | 0.81 | | | | **22.56** | ***m² total area of block on left elevation*** |
| 1 | 2.70 | | | | | | **Right side elevation** |
| | 0.15 | | | 1 | 10.30 | | |
| | | 0.405 | | | 2.66 | | |
| 1 | 2.70 | | | | | **27.398** | |
| | 0.20 | | | | | | **Dedaction for door and window** |
| | | 0.54 | | 1 | 3.06 | | |
| | | **1.755** | | | 1.52 | | stone wall |
| | | | **landing Slab** | | | 4.6512 | |
| 1 | 2.70 | | | 3 | 0.20 | | |
| | 1.30 | | soffit | | 2.66 | | |
| | | 3.51 | | | | 1.60 | right side coumn |
| 1 | 1.30 | | | | | 6.25 | ***m²total area of dedaction*** |
| | 0.15 | | in both sides | | | **21.15** | ***m² total area of block on right elevation*** |
| | | 0.39 | | | | **80.31** | ***m² total area of block on ground floor*** |
| | | **3.9** | | | | | |
| | | | **Steps** | | | | |
| 16 | 1.31 | | | | | | |
| | 0.17 | | | | | | |
| | | 3.5632 | | | | | |
| | | **3.5632** | | | | | |
| | | | **Inclined Slab** | | | | |
| 2 | 3.70 | | | | | | |
| | 1.31 | | Sofit | | | | |
| | | 9.694 | | | | | |
| 2 | 3.70 | | | | | | |
| | 0.35 | | | | | | |
| | | 5.18 | | | | | |
| | | **14.87** | | | | | |
| | | **24.09** | ***m² total area of form work on stair case*** | | | | |

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| | LXWXH | | |
|---|---|---|---|
| | | | **3.2 first floor** |
| | | | **0.2m thick HCB wall** |
| | | | **Front elevation** |
| 1 | 17.40 | | |
| | 2.36 | | |
| | | 41.06 | |
| | | | **Deduction for door and window** |
| 4 | 1.70 | | |
| | 0.90 | | W3 |
| | | 6.12 | |
| 1 | 2.50 | | |
| | 2.42 | | WD2 |
| | | 6.05 | |
| 2 | 2.52 | | |
| | 2.50 | | WD1 |
| | | 12.60 | |
| 5 | 0.20 | | |
| | 2.36 | | |
| | | 2.36 | column |
| | | **27.13** | ***m²total area of dedaction*** |
| | | **13.93** | ***m² total area of block on front elevation*** |
| | | | **Rear elevation** |
| 1 | 17.40 | | |
| | 2.36 | | |
| | | 41.06 | |
| | | | **Deduction for door and window** |
| 2 | 1.15 | | |
| | 1.00 | | W2 |
| | | 2.30 | |
| 1 | 0.60 | | |
| | 1.15 | | W1 |
| | | 0.69 | |
| 5 | 0.20 | | |
| | 2.36 | | |
| | | 2.36 | column |
| | | 5.35 | ***m²total area of dedaction*** |
| | | **35.71** | ***m² total area of block on Rear elevation*** |
| | | | **left side elevation** |
| 1 | 10.79 | | |
| | 2.36 | | |
| | | 25.4644 | |
| | | | **Deduction** |
| 3 | 0.20 | | |
| | 2.36 | | |
| | | **1.42** | ***column*** |
| | | **24.04** | ***m² total area of block on left elevation*** |
| | | | **Right side elevation** |
| 1 | 10.79 | | |
| | 2.36 | | |
| | | 25.46 | |
| | | | **Deduction for door and window** |
| 1 | 3.06 | | |
| | 1.52 | | stone wall |
| | | 4.6512 | |
| 3 | 0.20 | | |
| | 2.36 | | |
| | | 1.416 | column |
| | | **6.07** | |
| | | **19.39** | ***m² total area of block on Right elevation*** |
| | | **93.07** | ***m² total area of block on first floor*** |
| | | | **Partition wall** |
| | | | **ground floor** |
| | | | **0.15m thick HCB wall** |
| 1 | 5.40 | | |
| | 3.06 | | on axis Y02 |
| | | 16.52 | |
| 1 | 4.15 | | |
| | 3.06 | | axis b/n Y02-Y03 |
| | | 12.70 | |
| 1 | 3.90 | | |
| | 3.06 | | on axis Y04 |
| | | 11.93 | |
| 1 | 8.55 | | |
| | 3.06 | | on axis X02 |
| | | 26.163 | |

| | LXWXH | | |
|---|---|---|---|
| 1 | 3.40 | | |
| | 3.06 | | Axis b/n Y02-Y03 |
| | | 10.40 | |
| 1 | 1.30 | | |
| | 3.06 | | Axis b/n X02-X01 |
| | | 3.98 | |
| | | **81.69** | |
| | | | **Deduction for door and window** |
| 2 | 2.10 | | |
| | 0.90 | | D3 |
| | | 3.78 | |
| 1 | 2.10 | | |
| | 0.90 | | D2' |
| | | 1.89 | |
| 1 | 2.10 | | |
| | 0.80 | | D2 |
| | | 1.68 | |
| | | **7.35** | |
| | | **74.34** | |
| | | | **0.2m thick HCB wall** |
| 1 | 5.50 | | |
| | 3.06 | | on axis Y03 |
| | | 16.83 | |
| 1 | 4.3 | | |
| | 3.06 | | on axis Y02 |
| | | 13.158 | |
| 1 | 5.50 | | |
| | 3.06 | | Axis b/n Y01-Y02 |
| | | 16.83 | |
| | | **46.818** | |
| | | **121.16** | ***m2 total area of partition block on ground floor*** |
| | | | **first floor** |
| | | | **0.15m thick HCB wall** |
| 1 | 4.50 | | |
| | 3.06 | | Axis b/n Y01-Y02 |
| | | 13.77 | |
| 1 | 3.90 | | |
| | 3.06 | | on axis Y02 |
| | | 11.934 | |
| 1 | 4.15 | | |
| | 3.06 | | Axis b/n Y02-Y03 |
| | | 12.699 | |
| 1 | 3.90 | | |
| | 3.06 | | on axis Y03 |
| | | 11.934 | |
| 1 | 4.40 | | |
| | 3.06 | | on axis Y03 |
| | | 13.464 | |
| 1 | 3.13 | | |
| | 3.06 | | Aixs b/n Y03-Y04 |
| | | 9.5778 | |
| 1 | 2.53 | | |
| | 3.06 | | on aixs Y04 |
| | | 7.7418 | |

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| | LXWXH | | | | LXWXH | | |
|---|---|---|---|---|---|---|---|
| 1 | 0.94 | | | | | | **4.Roofing** |
| | 3.06 | | Axis b/n Y02-Y03 | | | | **galvanized corrugated steel sheet G-28** |
| | | 2.88 | | | | | **hip roof** |
| 1 | 0.15 | | | | 17.4 | | b/n axis X/01 -Ridge &Y01-Y05 |
| | 3.06 | | on axis b/n Y04 | 1 | 7.52 | | b1=17.4m,b2=7.52m,h=5.35m |
| | | 0.459 | | | 5.35 | | trapizoidal area |
| 1 | 1.22 | | | | | 66.66 | |
| | 3.06 | | on axis b/n Y04 | | 17.4 | | |
| | | 3.7332 | | 1 | 7.52 | | b/n axis X/03 -Ridge &Y01-Y05 |
| 1 | 4.25 | | | | 5.45 | | trapizoidal area |
| | 3.06 | | on axis b/n Y04 | | | 67.91 | |
| | | 13.005 | | | 10.8 | | b/n axis X/01-X/03 & Ridge -Y/05 |
| 1 | 4.35 | | | 2 | 4.95 | | **Hip roofs** |
| | 3.06 | | Axis b/n Y02-Y03 | | | 53.46 | |
| | | 13.311 | | | 1.55 | | |
| 1 | 1.21 | | | 2 | 3.25 | | |
| | 3.06 | | Axis b/n Y01-Y02 | | 1.55 | | trapizoidal |
| | | 3.7026 | | | | 7.44 | |
| 1 | 0.2 | | | | | | **deduct** |
| | 3.06 | | on axis Y02 | | 1.52 | | |
| | | 0.612 | | 1 | 0.87 | | $m^2$ |
| 1 | 4.7 | | | | | 1.32 | |
| | 3.06 | | on axis X02 | | | 179.27 | $m^2$ total area of roof cover |
| | | 14.382 | | 1 | 43.97 | | **3.2 G-28 sheet metal roof ridge** |
| 1 | 1.65 | | | | | 43.97 | m |
| | 3.06 | | Axis b/n X02-X03 | 1 | 58.44 | | **3.3 G-28 sheet metal gutter** |
| | | 5.049 | | | | 58.44 | m |
| 1 | 1.2 | | | 1 | 58.44 | | **3.3 G-28 sheet metal coping** |
| | 3.06 | | on axis X02 | | | 58.44 | m |
| | | 3.672 | | 16 | 6.5 | | **3.4 110mm PVC down pipe** |
| 1 | 3.7 | | | | | 104.00 | m |
| | 3.06 | | Axis b/n X03-X02 | | | | **8mm thick chip wood ceiling** |
| | | 11.322 | | | | | b/n axis X/04-X/05 & Y/06-Y/10 |
| 1 | 3.85 | | | 1 | 2.6 | | |
| | 3.06 | | Axis b/n X02-X01 | 1 | 1.25 | 3.25 | $m^2$ |
| | | 11.781 | | 1 | 1.5 | | |
| 1 | 3.5 | | | | 2.6 | 3.90 | $m^2$ |
| | 3.06 | | on axis X02 | 1 | 3.28 | | |
| | | 10.71 | | | 2.6 | 8.53 | $m^2$ |
| | | **94.62** | | 1 | 4.3 | | |
| | | | **Deduction for door and window** | | 2.6 | 11.18 | $m^2$ |
| 4 | 2.1 | | | 1 | 3.67 | | |
| | 0.8 | | D2 | | 2.6 | 9.54 | $m^2$ |
| | | 6.72 | | 1 | 4.8 | | |
| 2 | 2.10 | | | | 2.6 | 12.48 | $m^2$ |
| | 0.90 | | D3 | | | 48.88 | $m^2$ total area of ceiling |
| | | 3.78 | | | | | **5.Carpentary** |
| | | **10.5** | | 1 | 276.33 | | **a) 5*7 cm wooden purline** |
| | | **84.12** | | | | 276.33 | m |
| | | | **0.2m thick HCB wall** | | | | **b) ø 10cm eucalyptus upper & lower member** |
| 1 | 1.01 | | | | | 349.42 | m |
| | 3.06 | | Axis b/n Y01-Y02 | | | | **c) ø 8cm eucalyptus vertical & diagonal member** |
| | | 3.0906 | | | | 303.66 | m |
| | | **87.21** | ***m² total area of partition block on first floor*** | | | | |
| | | | | | | | |
| | | | **a) plastering for internal & external walls** | | | | |
| | **540.21** | $m^2$ | | | | | |
| | | | **b) exposed surfaces of beams & columns** | | | | |
| | **110.62** | $m^2$ | | | | | |

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| | LXWXH | | |
|---|---|---|---|
| | | | **6.Metal and wood work** |
| | | | **6.1 door** |
| | | | **Joinery** |
| | | | Ground &first floor(bath) |
| 6 | 0.80 | | |
| | 2.10 | | D2 |
| | | 10.08 | |
| | | | Ground &first floor(bed room) |
| 6 | 0.90 | | |
| | 2.10 | | D3 |
| | | 11.34 | |
| | | **21.42** | **m²Total Area wooden door** |
| | | | **wooden door with 4mm thick frosted glass** |
| | | | Ground(kitchen) |
| 1 | 0.9 | | |
| | 2.1 | | D2' |
| | | 1.89 | |
| | | **1.89** | **m²Total Area of door** |
| | | | **Aluminum frame with 4mm thick frosted gl** |
| | | | Ground(lobby main door) |
| 1 | 1.64 | | D4 |
| | 2.7 | | |
| | | 4.428 | Ground floor |
| 5 | 0.9 | | D5 |
| | 2.4 | | |
| | | 10.8 | |
| 1 | 0.9 | | D6 |
| | 2.4 | | |
| | | 2.16 | |
| | | **17.388** | **m²Total Area of door** |
| | | | 6.2 Window |
| | | | **Aluminum frame with 4mm thick frosted glass)** |
| | | | Ground floor(guest toilet) |
| 2 | 0.6 | | W1 |
| | 2.3 | | |
| | | 2.76 | |
| 2 | 0.6 | | W4 |
| | 0.8 | | |
| | | 0.96 | |
| | | **3.72** | **m²Total Area of window** |
| | | | **Aluminum frame with 6mm thick figured glass** |
| | | | first floor(bath) |
| 4 | 1 | | W2 |
| | 1.15 | | |
| | | 4.6 | Ground floor( toilet) |
| 1 | 0.75 | | W5 |
| | 1.15 | | |
| | | 0.8625 | |
| | | **5.4625** | **m²Total Area of window** |

| | LXWXH | | |
|---|---|---|---|
| | | | **Aluminum frame with 4mm thick tinted glass** |
| | | | Ground &first floor |
| 4 | 0.90 | | W3 |
| | 1.70 | | |
| | | 6.12 | |
| 2 | 2.5 | | W6 |
| | 1.50 | | |
| | | 7.5 | |
| | | 13.62 | **m²Total Area window** |
| | | | Ground &first floor(living dining bed room) |
| 2 | 0.60 | | WD1 |
| | 2.3 | | |
| | | 2.76 | |
| | | | first floor |
| 2 | 1.25 | | |
| | 2.40 | | |
| | | 6 | |
| | | **22.38** | **m²Total Area window** |
| | | | **Aluminum frame with 4mm thick clear glass** |
| | | | Ground floor |
| 2 | 2.5 | | WD3 |
| | 2.4 | | |
| | | 12 | |
| | | **12** | **m²Total Area of window** |
| | | | Ground &first floor |
| 2 | 0.90 | | WD3' |
| | 3.60 | | |
| | | 6.48 | |
| | | **18.48** | **m²Total Area of window** |
| | | | **Aluminum frame with 6mm thick clear glass** |
| | | | first floor bed room |
| 4 | 2.50 | | |
| | 1.5 | | |
| | | 15 | |
| | | **15** | **m²Total Area of window** |

CONTRACTOR

SUPERVISOR

| LXWXH | | |
|---|---|---|
| | | **7.Floor finish** |
| | | **7.1 ceramic tile** |
| | | Ground floor |
| | 19.40 | kitchen |
| | 2.65 | toilet |
| | | First floor |
| | 12.45 | walk in closet |
| | 10.60 | master bath room |
| | 5.55 | bath room |
| | 5.55 | *bath room* |
| | **56.20** | **m²Total Area of ceramic tile floor finish** |
| | | **7.2 Terrazon tile** |
| | | first floor |
| | 4.2 | |
| | **4.20** | **m²Total Area of terrazon tile floor finish** |
| | | **7.3 parquate tile** |
| | | Ground floor |
| | 22.67 | family room |
| | 19.17 | dinning room |
| | 31.75 | living room |
| | **73.59** | **m²Total Area of parquate tile floor finish** |
| | | **7.4.Marble chip** |
| | | Ground floor |
| | 30.2 | lobby &verandh |
| | | first floor |
| | 4.05 | balcony |
| | 4 | balcony |
| | 4.8 | balcony |
| | 5.96 | corridor |
| | 9.69 | corridor |
| | 4.7 | balcony |
| | **63.40** | **m²Total Area of marbe chip floor finish** |
| | | **7.5.plastic tile** |
| | | First floor |
| | 14.4 | bed room |
| | 34.25 | master bed room |
| | 10.35 | sitting area |
| | 16.1 | bed room |
| | 15.70 | bed room |
| | 90.80 | **m²Total Area of plastic tile floor finish** |
| | | **7.6.concrete tile** |
| | | Ground floor |
| | 26.28 | cart port |
| | 26.28 | **m²Total Area of concrete tile floor finish** |
| | | **terrazo skerting 10cmX0.2cm** |
| | 52.90 | ml |
| | | **ceramic skerting 10cmXm0.2cm** |
| | 14.10 | ml |
| | | **8.Glazing Work** |
| | | 8.1 DOOR |
| | | 8.1.1 4mm thick frosted glass) |
| | | **Ground(lobby main door)** |
| 1 | 1.64 | D4 |
| | 2.7 | |
| | 4.428 | |
| | | **Ground floor** |
| 5 | 0.9 | D5 |
| | 2.4 | |
| | 10.8 | |
| 1 | 0.9 | D6 |
| | 2.4 | |
| | 2.16 | |
| 1 | 0.45 | D2' |
| | 0.8 | |
| | 0.36 | |
| | **17.748** | **m² total area** |

| LXWXH | | |
|---|---|---|
| 2 | 0.60 | |
| | 2.30 | W1 |
| | | 2.76 |
| 2 | 0.60 | |
| | 0.80 | W4 |
| | | 0.96 |
| | **3.72** | **m²Total Area** |
| 4 | 1.00 | |
| | 1.15 | W2 |
| | | 4.60 |
| 1 | 0.75 | |
| | 1.15 | W5 |
| | | 0.86 |
| | **5.48** | **m²Total Area 6mm thick figured glass window** |
| 4 | 0.90 | |
| | 1.70 | W3 |
| | | 6.12 |
| 1 | 2.50 | |
| | 1.50 | W6 |
| | | 3.75 |
| 2 | 0.60 | |
| | 2.30 | WD1 |
| | | 2.76 |
| 2 | 1.25 | |
| | 2.40 | WD4 |
| | | 6 |
| | **18.63** | **m²Total Area 4mm thick thinted glass window** |
| 2 | 2.50 | |
| | 2.40 | WD3 |
| | | 12 |
| 2 | 0.90 | |
| | 3.6 | WD3' |
| | | 6.48 |
| | **18.48** | **m²Total Area 4mm thick clear glass window** |
| 4 | 2.50 | |
| | 1.50 | |
| | | 15 |
| | **15** | **m²Total Area 6mm thick clear glass window** |
| | | |
| | | 540.21 m² |
| | | 365.53 m² |
| | | 180.60 m² |
| | | 172.59 m² |
| 1 | 9.05 | |
| | 1.51 | |
| | 1 | |
| | 13.6655 | **m³ total volume of masonry** |

| |
|---|
| **8.2 WINDOW** |
| 6.2.1 4mm thick frosted glass) |
| Ground floor(Guste toilet) |
| W1 |
| W4 |
| W2 |
| W5 |
| **8.2.2 6mm thick figured glass** |
| **First floor bath room** |
| W6 |
| **8.2.3 4mm thick tinted glass** |
| Ground floor& first floor |
| W3 |
| Living Dining bed room |
| WD1 |
| FIRST FLOOR |
| WD4 |
| **8.2.4 4mm thick Clear glass** |
| Ground floor |
| WD3 |
| Ground floor& first floor |
| WD3' |
| **8.2.5 6mm thick Clear glass** |
| first floor bed room |
| **9.Painting** |
| **a) apply painting to the plasterd wall** |
| m² |
| **b) apply painting to plasted beams & columns** |
| m² |
| **c) apply painting to slab ,stair soffit & landing** |
| m² |
| **d) apply painting to chip wood** |
| m² |
| **masonry work** |
| located at left side of building for aesthetic purpose |

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| | LxWxH | | | | LxWxH | | |
|---|---|---|---|---|---|---|---|

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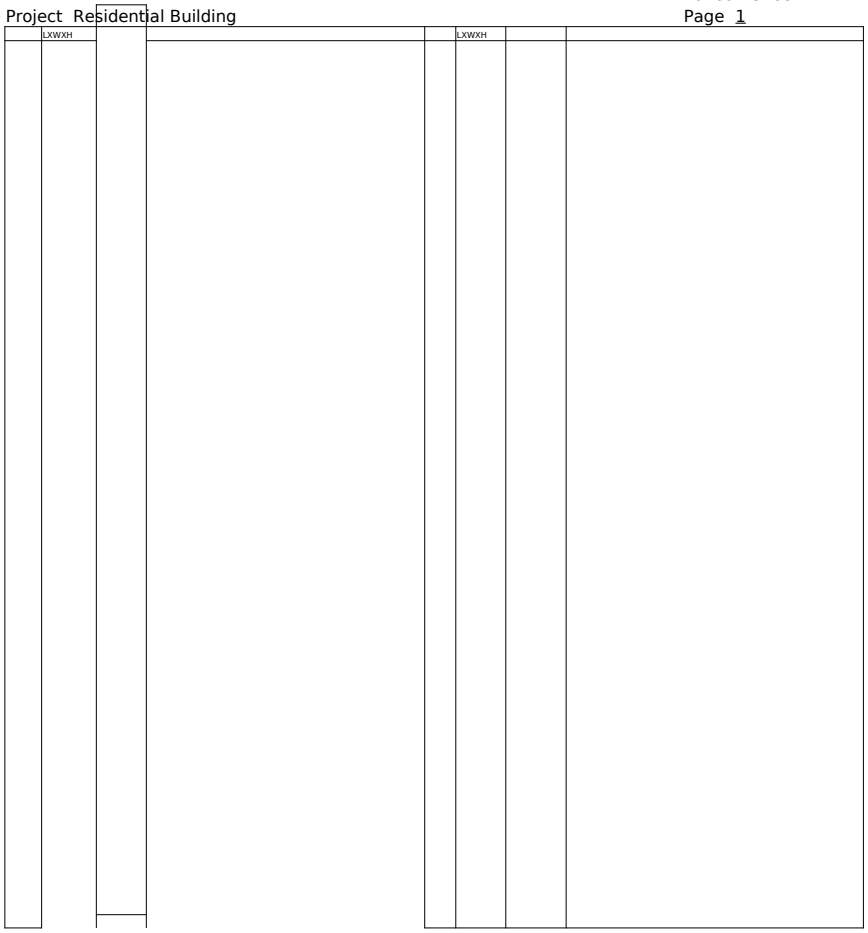
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Project Residential Building

Takeoff Sheet

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HW Construction PLC

# BAR SCHEDULE



**2.4** Reinforcement bars cut to the size, bent to shapes, tied and placed in position according to the structural drawing

| Item | Position | Diam(mm) | Shape | No.of bars | No. of bar member | Length | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Isolated footing pads | F1 | 12 | | 23.1764706 | 1 | 2.30 | -- | -- | -- | 53.305882 | -- | -- | -- | -- |
| | F2 | 12 | | 18 | 2 | 2.00 | -- | -- | -- | 72 | -- | -- | -- | -- |
| | F3 | 10 | | 20.6666667 | 4 | 1.70 | -- | -- | 140.53 | | -- | -- | -- | -- |
| | F4 | 10 | | 14.9411765 | 3 | 1.30 | -- | -- | 58.27 | | -- | -- | -- | -- |
| | F5 | 10 | | 14 | 4 | 1.00 | -- | -- | 56.00 | | | | | |
| combined footing pad | F6 | 10 | | 15 | 1 | 3.10 | -- | -- | 46.50 | | -- | -- | -- | -- |
| | | 8 | | 19.6666667 | 1 | 1.70 | | 33.43 | | | | | | |
| | | 10 | | 10.3333333 | 1 | 2.70 | | | 27.90 | | | | | |
| | | 8 | | 19.6666667 | 1 | 1.30 | -- | 25.57 | -- | | -- | -- | -- | -- |
| fondation chimney | FCH | 10 | | 2.1 | | | | | | | | | | |
| | | 8 | | | | | | | | | | | | |
| Foundation columns | C1 | 16 | | 6 | 13 | 3.00 | -- | -- | -- | -- | -- | 234.00 | -- | -- |
| | Stir up | 8 | | 9 | 13 | 0.80 | -- | 93.6 | -- | -- | -- | -- | -- | -- |
| | C2 | 16 | | 6 | 2 | 3.00 | -- | -- | -- | -- | -- | 36.00 | -- | -- |
| | Stir up | 8 | | 9 | 2 | 0.80 | -- | 14.4 | -- | -- | -- | -- | -- | -- |
| | C3 | 14 | | 6 | 4 | 3.00 | -- | -- | -- | -- | 72 | -- | -- | -- |
| | Stir up | 8 | | 9 | 4 | 0.85 | -- | 30.6 | -- | -- | -- | -- | -- | -- |
| | C4 | 14 | | 4 | 1 | 3.98 | -- | -- | -- | -- | 15.92 | -- | -- | -- |
| | Stir up | 8 | | 16 | 1 | 0.80 | -- | 12.8 | -- | -- | -- | -- | -- | -- |
| Grade Beams | GB-1 | 14 | | 3 | 1 | 8.15 | -- | -- | -- | -- | 24.45 | -- | -- | -- |
| | | 12 | | 3 | 1 | 10.25 | -- | -- | -- | 30.75 | -- | -- | -- | -- |
| | | 14 | | 3 | 1 | 10.25 | -- | -- | -- | -- | 30.75 | -- | -- | -- |
| | | 12 | | 3 | 1 | 8.05 | -- | -- | -- | 24.15 | -- | -- | -- | -- |
| | | 16 | | 2 | 1 | 4.2 | -- | -- | -- | -- | -- | 8.4 | -- | -- |
| | Stir up | 8 | | 93 | 1 | 1 | -- | 93 | -- | -- | -- | -- | -- | -- |
| | GB-1' | 14 | | 3 | 1 | 10.45 | -- | -- | -- | -- | 31.35 | -- | -- | -- |
| | | 14 | | 3 | 1 | 10.45 | -- | -- | -- | -- | 31.35 | -- | -- | -- |
| | Stir up | 8 | | 48 | 1 | 1 | -- | 48 | -- | -- | -- | -- | -- | -- |
| | GB-1" | 12 | | 3 | 1 | 1045 | -- | -- | -- | 3135 | -- | -- | -- | -- |
| | | 12 | | 3 | 1 | 8.05 | -- | -- | -- | 24.15 | -- | -- | -- | -- |
| | Stir up | 8 | | 37 | 1 | Total 1 | -- | 37 | -- | -- | -- | -- | -- | -- |
| | | | | | | length | 0.00 | 388.40 | 329.20 | 3286.05 | 205.82 | 278.40 | 0.00 | 0.00 |
| | | | | | | Kg/m | 0.222 | 0.395 | 0.617 | 0.888 | 1.208 | 1.578 | 2.466 | 3.551 |
| | | | | | | weight | 0.00 | 153.42 | 203.12 | 2918.01 | 248.63 | 439.32 | 0.00 | 0.00 |

CONTRACTOR

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SA Construction PLC

# BAR SCHEDULE



| Item | Position | Diam(mm) | Shape | No.of bars | No. of bar member | Length | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GB-2 | 16 | | 3 | 1 | 4.7 | -- | -- | -- | -- | -- | 14.1 | -- | -- |
| | | 16 | | 3 | 1 | 4.7 | -- | -- | -- | -- | -- | 14.1 | -- | -- |
| | Stir up | 8 | | 20 | 1 | 1 | -- | 20 | -- | -- | -- | -- | -- | -- |
| | GB3 | 12 | | 3 | 1 | 13.3 | -- | -- | -- | 39.9 | -- | -- | -- | -- |
| | | 14 | | 3 | 1 | 6.4 | -- | -- | -- | -- | 19.2 | -- | -- | -- |
| | | 14 | | 3 | 1 | 6.7 | -- | -- | -- | -- | 20.1 | -- | -- | -- |
| | | 12 | | 3 | 1 | 12.6 | -- | -- | -- | 37.8 | -- | -- | -- | -- |
| | Stir up | 8 | | 83 | 1 | 1 | -- | 83 | -- | -- | -- | -- | -- | -- |
| | GB-4 | 14 | | 3 | 1 | 4.16 | -- | -- | -- | -- | 12.48 | -- | -- | -- |
| | | 14 | | 3 | 1 | 4.16 | -- | -- | -- | -- | 12.48 | -- | -- | -- |
| | Stir up | 8 | | 12 | 1 | 1 | -- | 12 | -- | -- | -- | -- | -- | -- |
| | GB-5 | 14 | | 3 | 1 | 13.1 | -- | -- | -- | -- | 39.3 | -- | -- | -- |
| | | 14 | | 3 | 1 | 11.4 | -- | -- | -- | -- | 34.2 | -- | -- | -- |
| | Stir up | 8 | | 49 | 1 | 1 | -- | 49 | -- | -- | -- | -- | -- | -- |
| | GB-6 | 14 | | 3 | 2 | 10.7 | -- | -- | -- | -- | 64.2 | -- | -- | -- |
| | | 16 | | 3 | 2 | 3.3 | -- | -- | -- | -- | -- | 19.8 | -- | -- |
| | | 14 | | 3 | 2 | 5.95 | -- | -- | -- | -- | 35.7 | -- | -- | -- |
| | | 14 | | 3 | 2 | 10.7 | -- | -- | -- | -- | 64.2 | -- | -- | -- |
| | Stir up | 8 | | 49 | 2 | 1 | -- | 98 | -- | -- | -- | -- | -- | -- |
| | GB-7 | 12 | | 3 | 2 | 10.7 | -- | -- | -- | 64.2 | -- | -- | -- | -- |
| | | 14 | | 2 | 2 | 3.3 | -- | -- | -- | -- | 13.2 | -- | -- | -- |
| | | 12 | | 3 | 2 | 10.7 | -- | -- | -- | 64.2 | -- | -- | -- | -- |
| | Stir up | 8 | | 49 | 2 | 1 | -- | 98 | -- | -- | -- | -- | -- | -- |
| | GB-8 | 12 | | 3 | 2 | 2.35 | -- | -- | -- | 14.1 | -- | -- | -- | -- |
| | | 12 | | 3 | 2 | 2.35 | -- | -- | -- | 14.1 | -- | -- | -- | -- |
| | Stir up | 8 | | 22 | 2 | 1 | -- | 44 | -- | -- | -- | -- | -- | -- |
| | GB-9 | 14 | | 3 | 1 | 5.1 | -- | -- | -- | -- | 15.3 | -- | -- | -- |
| | | 12 | | 3 | 1 | 5.4 | -- | -- | -- | 16.2 | -- | -- | -- | -- |
| | Stir up | 8 | | 22 | 1 | 1 | -- | 22 | -- | -- | -- | -- | -- | -- |
| | | | | | | Total | | | | | | | | |
| | | | | | | length | 0.00 | 164.00 | 0.00 | 77.70 | 137.76 | 28.20 | 0.00 | 0.00 |
| | | | | | | Kg/m | 0.222 | 0.395 | 0.617 | 0.888 | 1.208 | 1.578 | 2.466 | 3.551 |
| | | | | | | weight | 0.00 | 64.78 | 0.00 | 69.00 | 166.41 | 44.50 | 0.00 | 0.00 |

CONTRACTOR

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# BAR SCHEDULE



| Item | Position | ) | Shape | No.of bars | member | Length | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ground floor slab | b/n Y01-Y02 b/n Y02-Y03 | 8 | | 21 | 1 | 4.85 | -- | 101.85 | -- | -- | -- | -- | -- | -- |
| | b/n X01-X02 b/n X02-X03 | 8 | | 20 | 1 | 4.9 | -- | 98 | -- | -- | -- | -- | -- | -- |
| | b/n Y02-Y03 b/n Y03-Y04 | 8 | | 21 | 1 | 0.55 | -- | 11.55 | -- | -- | -- | -- | -- | -- |
| | b/n X01-X02 b/n X02-X03 | 8 | | 3 | 1 | 4.9 | -- | 14.7 | -- | -- | -- | -- | -- | -- |
| | b/n Y01'-Y02' b/n Y02'-Y03' | 8 | | 21 | 1 | 2.3 | -- | 48.3 | -- | -- | -- | -- | -- | -- |
| | b/n X01-X02 b/n X02-X03 | 8 | | 11 | 1 | 4.9 | -- | 53.9 | -- | -- | -- | -- | -- | -- |
| | b/n Y03-Y04 b/n Y04-Y05 | 8 | | 14 | 1 | 3.1 | -- | 43.4 | -- | -- | -- | -- | -- | -- |
| | b/n X02-X03 b/n X03-X04 | 8 | | 13 | 1 | 3.2 | -- | 41.6 | -- | -- | -- | -- | -- | -- |
| | b/n Y01'-Y02' b/n Y02'-Y03' | 8 | | 14 | 1 | 3.65 | -- | 51.1 | -- | -- | -- | -- | -- | -- |
| | b/n X01'-X02' b/n X02'-X03' | 8 | | 16 | 1 | 3.2 | -- | 51.2 | -- | -- | -- | -- | -- | -- |
| | b/n Y01'-Y02' b/n Y02'-Y03' | 8 | | 11 | 1 | 0.755 | -- | 8.305 | -- | -- | -- | -- | -- | -- |
| | b/n X01'-X02' b/n X02'-X03' | 8 | | 4 | 1 | 2.482 | -- | 9.928 | -- | -- | -- | -- | -- | -- |
| | b/n Y03'-Y04' b/n Y04'-Y05' | 8 | | 14 | 1 | 0.95 | -- | 13.3 | -- | -- | -- | -- | -- | -- |
| | b/n X02'-X03' b/n X03'-X04' | 8 | | 5 | 1 | 3.2 | -- | 16 | -- | -- | -- | -- | -- | -- |
| | b/n Y04-Y05 b/n Y05-Y06 | 8 | | 13 | 1 | 3 | -- | 39 | -- | -- | -- | -- | -- | -- |
| | b/n X02-X03 b/n X03-X04 | 8 | | 13 | 1 | 3 | -- | 39 | -- | -- | -- | -- | -- | -- |
| | b/n Y02'-Y03' b/n Y03'-Y04' | 8 | | 13 | 1 | 5.85 | -- | 76.05 | -- | -- | -- | -- | -- | -- |
| | b/n X03-X04 b/n X04-X05 | 8 | | 24 | 1 | 3 | -- | 72 | -- | -- | -- | -- | -- | -- |
| | b/n Y03-Y04 b/n Y04-Y05 | 8 | | 13 | 1 | 3 | -- | 39 | -- | -- | -- | -- | -- | -- |
| | X02' | 8 | | 13 | 1 | 2.9 | -- | 37.7 | -- | -- | -- | -- | -- | -- |
| | b/n Y04-Y05 b/n Y05-Y06 | 8 | | 14 | 1 | 5.5 | -- | 77 | -- | -- | -- | -- | -- | -- |
| | X01 | 8 | | 23 | 1 | 3.25 | -- | 74.75 | -- | -- | -- | -- | -- | -- |
| | | | | | | Total length | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | | | | Kg/m | 0.00 | 1017.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | Total weight | 0.222 | 0.395 | 0.617 | 0.888 | 1.208 | 1.578 | 2.466 | 3.551 |
| | | | | | | | 0.00 | 401.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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| | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|
| **Total length** | 0.00 | 1570.03 | 329.20 | 3363.75 | 343.58 | 306.60 | 0.00 | 0.00 |
| **Kg/m** | 0.222 | 0.395 | 0.617 | 0.888 | 1.208 | 1.578 | 2.466 | 3.551 |
| **Total weight** | **0.00** | **620.16** | **203.12** | **###** | **415.04** | **483.81** | **0.00** | **0.00** |

SA Construction PLC

# BAR SCHEDULE



| Item | Position | Diam(mm) | Shape | No.of bars | No. of bar member | Length | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| first floor beams | FFB-1 | 14 | | 4 | 1 | 6.5 | -- | -- | -- | -- | 26 | -- | -- | -- |
| | | 14 | | 4 | 1 | 6.5 | -- | -- | -- | -- | 26 | -- | -- | -- |
| | Stir up | 8 | | 29 | 1 | 1.2 | -- | 34.8 | -- | -- | -- | -- | -- | -- |
| | FFB-2 | 16 | | 3 | 1 | 9.5 | -- | -- | -- | -- | -- | 28.5 | -- | -- |
| | | 16 | | 3 | 1 | 9.5 | -- | -- | -- | -- | -- | 28.5 | -- | -- |
| | Stir up | 8 | | 37 | 1 | 1.2 | -- | 44.4 | -- | -- | -- | -- | -- | -- |
| | FFB-3 | 16 | | 3 | 1 | 13.1 | -- | -- | -- | -- | -- | 39.3 | -- | -- |
| | | 16 | | 3 | 1 | 8.15 | -- | -- | -- | -- | -- | 24.45 | -- | -- |
| | Stir up | 8 | | 56 | 1 | 1.2 | -- | 67.2 | -- | -- | -- | -- | -- | -- |
| | FFB-3' | 16 | | 3 | 1 | 10.5 | -- | -- | -- | -- | -- | 31.5 | -- | -- |
| | | 20 | | 3 | 1 | 1 | -- | -- | -- | -- | -- | -- | 3 | -- |
| | | 20 | | 2 | 1 | 1.6 | -- | -- | -- | -- | -- | -- | 3.2 | -- |
| | | 16 | | 3 | 1 | 10.5 | -- | -- | -- | -- | -- | 31.5 | -- | -- |
| | Stir up | 8 | | 48 | 1 | 1.2 | -- | 57.6 | -- | -- | -- | -- | -- | -- |
| | FFB-4 | 16 | | 3 | 1 | 19.3 | -- | -- | -- | -- | -- | 57.9 | -- | -- |
| | | 16 | | 3 | 1 | 3.4 | -- | -- | -- | -- | -- | 10.2 | -- | -- |
| | | 16 | | 3 | 1 | 18.9 | -- | -- | -- | -- | -- | 56.7 | -- | -- |
| | Stir up | 8 | | 85 | 1 | 1.2 | -- | 102 | -- | -- | -- | -- | -- | -- |
| | FFB-5 | 16 | | 3 | 1 | 10.4 | -- | -- | -- | -- | -- | 31.2 | -- | -- |
| | | 14 | | 2 | 1 | 3.4 | -- | -- | -- | -- | 6.8 | -- | -- | -- |
| | | 16 | | 3 | 1 | 10.4 | -- | -- | -- | -- | -- | 31.2 | -- | -- |
| | Stir up | 8 | | 48 | 1 | 1.2 | -- | 57.6 | -- | -- | -- | -- | -- | -- |
| | FFB-6 | 20 | | 2 | 1 | 10.8 | -- | -- | -- | -- | -- | -- | 21.6 | -- |
| | | 20 | | 3 | 1 | 3.4 | -- | -- | -- | -- | -- | -- | 10.2 | -- |
| | | 16 | | 4 | 1 | 10.8 | -- | -- | -- | -- | -- | 43.2 | -- | -- |
| | Stir up | 8 | | 49 | 1 | 1.2 | -- | 58.8 | -- | -- | -- | -- | -- | -- |
| top tie beams | TTB-1 | 14 | | 3 | 2 | 19 | -- | -- | -- | -- | 114 | -- | -- | -- |
| | | 14 | | 2 | 2 | 3.2 | -- | -- | -- | -- | 12.8 | -- | -- | -- |
| | | 14 | | 3 | 2 | 10.6 | -- | -- | -- | -- | 63.6 | -- | -- | -- |
| | Stir up | 8 | | 113 | 2 | 1 | -- | 226 | -- | -- | -- | -- | -- | -- |
| | TTB-2 | 12 | | 3 | 1 | 19 | -- | -- | -- | 57 | -- | -- | -- | -- |
| | | 12 | | 2 | 1 | 3.2 | -- | -- | -- | 6.4 | -- | -- | -- | -- |
| | | 12 | | 3 | 1 | 10.6 | -- | -- | -- | 31.8 | -- | -- | -- | -- |
| | Stir up | 8 | | 113 | 1 | 1 | -- | 113 | -- | -- | -- | -- | -- | -- |
| | TTB-3 | 14 | | 3 | 1 | 5.3 | -- | -- | -- | -- | 15.9 | -- | -- | -- |
| | | 14 | | 3 | 1 | 5.3 | -- | -- | -- | -- | 15.9 | -- | -- | -- |
| | Stir up | 8 | | 32 | 1 | 1.2 | -- | 38.4 | -- | -- | -- | -- | -- | -- |
| | TTB-4 | 12 | | 3 | 1 | 6.27 | -- | -- | -- | 18.81 | -- | -- | -- | -- |
| | | 12 | | 3 | 1 | 6.27 | -- | -- | -- | 18.81 | -- | -- | -- | -- |
| | Stir up | 8 | | 38 | 1 | 1 | -- | 38 | -- | -- | -- | -- | -- | -- |
| | TTB-5 | 14 | | 3 | 2 | 10.6 | -- | -- | -- | -- | 63.6 | -- | -- | -- |
| | | 14 | | 3 | 2 | 10.6 | -- | -- | -- | -- | 63.6 | -- | -- | -- |
| | Stir up | 8 | | 65 | 2 | 1 | -- | 130 | -- | -- | -- | -- | -- | -- |
| | TTB-6 | 12 | | 3 | 2 | 10.6 | -- | -- | -- | 63.6 | -- | -- | -- | -- |
| | | 12 | | 3 | 2 | 10.6 | -- | -- | -- | 63.6 | -- | -- | -- | -- |
| | Stir up | 8 | | 65 | 2 | 1 | -- | 130 | -- | -- | -- | -- | -- | -- |
| | TTB-7 | 12 | | 3 | 1 | 10.6 | -- | -- | -- | 31.8 | -- | -- | -- | -- |
| | | 12 | | 3 | 1 | 10.6 | -- | -- | -- | 31.8 | -- | -- | -- | -- |
| | Stir up | 8 | | 65 | 1 | 1 | -- | 65 | -- | -- | -- | -- | -- | -- |
| | TTB-8 | 12 | | 3 | 2 | 6.09 | -- | -- | -- | 36.54 | -- | -- | -- | -- |
| | | 12 | | 3 | 2 | 6.09 | -- | -- | -- | 36.54 | -- | -- | -- | -- |
| | Stir up | 8 | | 18 | 2 | 1 | -- | 36 | -- | -- | -- | -- | -- | -- |
| | | | | | | Total length | 0.00 | 994.80 | 0.00 | 396.70 | 356.20 | 230.40 | 31.80 | 0.00 |
| | | | | | | Kg/m | 0.222 | 0.395 | 0.617 | 0.888 | 1.208 | 1.578 | 2.466 | 3.551 |
| | | | | | | Total weight | 0.00 | 392.95 | 0.00 | 352.27 | 430.29 | 363.57 | 78.42 | 0.00 |

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# BAR SCHEDULE



position according to the structural drawing

| Item | Position | Diam(mm) | Shape | No.of bars | No. of bar member | Length | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ground floor column | | | | | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | C1 | 16 | | 6 | 13 | 3.70 | -- | -- | -- | -- | -- | 288.6 | -- | -- |
| | Stir up | 8 | | 12 | 13 | 1.00 | -- | 156 | -- | -- | -- | -- | -- | -- |
| | C2 | 16 | | 6 | 2 | 3.70 | -- | -- | -- | -- | -- | 44.4 | -- | -- |
| | Stir up | 8 | | 12 | 2 | 1.00 | -- | 24 | -- | -- | -- | -- | -- | -- |
| | C3 | 14 | | 6 | 4 | 3.70 | -- | -- | -- | -- | 88.8 | -- | -- | -- |
| | Stir up | 8 | | 12 | 4 | 1.00 | -- | 48 | -- | -- | -- | -- | -- | -- |
| first floor column | | | | | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | C1 | 16 | | 6 | 13 | 3.20 | -- | -- | -- | -- | -- | 249.6 | -- | -- |
| | Stir up | 8 | | 12 | 13 | 1.00 | -- | 156 | -- | -- | -- | -- | -- | -- |
| | C2 | 16 | | 6 | 2 | 3.20 | -- | -- | -- | -- | -- | 38.4 | -- | -- |
| | Stir up | 8 | | 12 | 2 | 1.00 | -- | 24 | -- | -- | -- | -- | -- | -- |
| | C3 | 14 | | 6 | 4 | 3.20 | -- | -- | -- | -- | 76.8 | -- | -- | -- |
| | Stir up | 8 | | 12 | 4 | 1.00 | -- | 48 | -- | -- | -- | -- | -- | -- |
| column | | | | | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | c1 | 16 | | 6 | 1 | 3.57 | -- | -- | -- | -- | -- | 21.42 | -- | -- |
| | Stir up | 8 | | 15 | 1 | 1.00 | -- | 15 | -- | -- | -- | -- | -- | -- |
| first floor slab | | | | | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | B/n X03-X02' | 10 | 4 | 22 | 1 | 9.05 | -- | -- | 199.1 | -- | -- | -- | -- | -- |
| | B/n X02'-X02 | 10 | 7 | 11 | 1 | 7.65 | -- | -- | 84.15 | -- | -- | -- | -- | -- |
| | Cantiliver slab | 8 | 1 | 3 | 1 | 6 | -- | 18 | -- | -- | -- | -- | -- | -- |
| | " | 8 | 2 | 2 | 1 | 5.85 | -- | 11.7 | -- | -- | -- | -- | -- | -- |
| | B/n Y01-Y02 | 10 | 6 | 32 | 1 | 6.45 | -- | -- | 206.4 | -- | -- | -- | -- | -- |
| | B/n Y01-Y03 | 10 | 5 | 40 | 1 | 2.3 | -- | -- | 92 | -- | -- | -- | -- | -- |
| | B/n X02-X01 | 10 | 7 | 25 | 1 | 7.65 | -- | -- | 191.25 | -- | -- | -- | -- | -- |
| | " | 10 | 5 | 31 | 1 | 2.3 | -- | -- | 71.3 | -- | -- | -- | -- | -- |
| | B/n Y01-Y02 | 10 | 9 | 32 | 1 | 6.15 | -- | -- | 196.8 | -- | -- | -- | -- | -- |
| | " | 10 | 8 | 43 | 1 | 2.8 | -- | -- | 120.4 | -- | -- | -- | -- | -- |
| | B/n X02'-X02 | 12 | 10 | 13 | 1 | 7.05 | -- | -- | -- | 91.65 | -- | -- | -- | -- |
| | B/n X02-X01 | 8 | 13 | 26 | 1 | 4.8 | -- | 124.8 | -- | -- | -- | -- | -- | -- |
| | Cantiliver slab | 8 | 17 | 5 | 1 | 3.8 | -- | 19 | -- | -- | -- | -- | -- | -- |
| | " | 10 | 18 | 3 | 1 | 3.6 | -- | -- | 10.8 | -- | -- | -- | -- | -- |
| | B/n Y02-Y03 | 10 | 9 | 5 | 1 | 6.15 | -- | -- | 30.75 | -- | -- | -- | -- | -- |
| | " | 10 | 16 | 19 | 1 | 10.01 | -- | -- | 190.19 | -- | -- | -- | -- | -- |
| | " | 12 | 15 | 23 | 1 | 3.2 | -- | -- | -- | 73.6 | -- | -- | -- | -- |
| tank slab | | | | | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8 | | 6 | 1 | 3.23 | -- | 19.38 | -- | -- | -- | -- | -- | -- |
| | | 8 | | 6 | 2 | 1.4 | -- | 16.8 | -- | -- | -- | -- | -- | -- |
| | | 8 | | 9 | 1 | 2.7 | -- | 24.3 | -- | -- | -- | -- | -- | -- |
| | | 8 | | 9 | 2 | 1.2 | -- | 21.6 | -- | -- | -- | -- | -- | -- |
| | | | | | | Total length | 0.00 | 644.50 | 1393.14 | 165.25 | 165.60 | 642.42 | 0.00 | 0.00 |
| | | | | | | Kg/m | 0.222 | 0.395 | 0.617 | 0.888 | 1.208 | 1.578 | 2.466 | 3.551 |
| | | | | | | Total weight | 0.00 | 254.58 | 859.57 | 146.74 | 200.04 | 1013.74 | 0.00 | 0.00 |

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# BAR SCHEDULE



| Item | Position | Diam(mm) | Shape | No.of bars | No. of bar member | Length | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cantiliver slab | 8 | 23 | 4 | 1 | 4.25 | -- | 17 | -- | -- | -- | -- | -- | -- |
| | " | 8 | 24 | 2 | 1 | 4.05 | -- | 8.1 | -- | -- | -- | -- | -- | -- |
| | " | 8 | 19 | 3 | 1 | 7.85 | -- | 23.55 | -- | -- | -- | -- | -- | -- |
| | " | 8 | 20 | 2 | 1 | 7.65 | -- | 15.3 | -- | -- | -- | -- | -- | -- |
| | B/n X03-X02' | 10 | 21 | 23 | 1 | 9.95 | -- | -- | 228.85 | -- | -- | -- | -- | -- |
| | " | 10 | 3 | 24 | 1 | 3.4 | -- | -- | 81.6 | -- | -- | -- | -- | -- |
| | B/n Y02-Y03 | 10 | 11 | 6 | 1 | 7.1 | -- | -- | 42.6 | -- | -- | -- | -- | -- |
| | " | 10 | 12 | 3 | 1 | 5.95 | -- | -- | 17.85 | -- | -- | -- | -- | -- |
| | B/n Y03-Y04 | 10 | 6 | 22 | 1 | 6.45 | -- | -- | 141.9 | -- | -- | -- | -- | -- |
| | " | 10 | 5 | 28 | 1 | 2.3 | -- | -- | 64.4 | -- | -- | -- | -- | -- |
| | B/n Y04-Y05 | 10 | 26 | 29 | 1 | 11.55 | -- | -- | 334.95 | -- | -- | -- | -- | -- |
| | " | 12 | 25 | 23 | 1 | 3.1 | -- | -- | -- | 71.3 | -- | -- | -- | -- |
| | B/n X02'-X01 | 12 | 26 | 49 | 1 | 11.55 | -- | -- | -- | 565.95 | -- | -- | -- | -- |
| | " | 12 | 28 | 62 | 1 | 2.65 | -- | -- | -- | 164.3 | -- | -- | -- | -- |
| | " | 10 | 27 | 34 | 1 | 9 | -- | -- | 306 | -- | -- | -- | -- | -- |
| | B/n Y04-Y05 | 10 | 8 | 57 | 1 | 2.8 | -- | -- | 159.6 | -- | -- | -- | -- | -- |
| | " | 10 | 9 | 42 | 1 | 6.15 | -- | -- | 258.3 | -- | -- | -- | -- | -- |
| Stair case | | | | | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | Section A-A | 14 | a | 10 | 1 | 5.74 | -- | -- | -- | -- | 57.4 | -- | -- | -- |
| | | 12 | b | 8 | 1 | 2.35 | -- | -- | -- | 18.8 | -- | -- | -- | -- |
| | | 12 | c | 9 | 1 | 2.2 | -- | -- | -- | 19.8 | -- | -- | -- | -- |
| | | 8 | d | 8 | 8 | 0.96 | -- | 61.44 | -- | -- | -- | -- | -- | -- |
| | | 8 | e | 1 | 8 | 1.85 | -- | 14.8 | -- | -- | -- | -- | -- | -- |
| | | 8 | f | 1 | 8 | 1.85 | -- | 14.8 | -- | -- | -- | -- | -- | -- |
| | Section B-B | 14 | a | 10 | 1 | 6.22 | -- | -- | -- | -- | 62.2 | -- | -- | -- |
| | | 12 | b | 8 | 1 | 2.35 | -- | -- | -- | 18.8 | -- | -- | -- | -- |
| | | 12 | c | 9 | 1 | 1.55 | -- | -- | -- | 13.95 | -- | -- | -- | -- |
| | | 10 | d | 10 | 1 | 4.85 | -- | -- | 48.5 | -- | -- | -- | -- | -- |
| | | 12 | e | 9 | 1 | 2.75 | -- | -- | -- | 24.75 | -- | -- | -- | -- |
| | | 8 | f | 1 | 8 | 1.8 | -- | 14.4 | -- | -- | -- | -- | -- | -- |
| | | 8 | g | 1 | 8 | 1.8 | -- | 14.4 | -- | -- | -- | -- | -- | -- |
| | Landing slab | 8 | h | 8 | 8 | 0.96 | -- | 61.44 | -- | -- | -- | -- | -- | -- |
| | | 8 | | 8 | 1 | 5.24 | -- | 41.92 | -- | -- | -- | -- | -- | -- |
| | | 8 | | 15 | 1 | 2.16 | -- | 32.4 | -- | -- | -- | -- | -- | -- |
| | | 8 | | 9 | 2 | 1.153 | -- | 20.754 | -- | -- | -- | -- | -- | -- |
| | | 8 | | 17 | 2 | 0.62 | -- | 21.08 | -- | -- | -- | -- | -- | -- |
| | Landing beam | | | | | | -- | -- | -- | -- | -- | -- | -- | -- |
| | TOP.Ref | 16 | | 3 | 1 | 3.5 | -- | -- | -- | -- | -- | 10.5 | -- | -- |
| | BOTTOM.Ref | 16 | | 3 | 1 | 3.5 | -- | -- | -- | -- | -- | 10.5 | -- | -- |
| | Stir up | 8 | | 15 | 1 | Total length | -- | 15 | -- | -- | -- | -- | -- | -- |
| | | | | | | | 0.00 | 245.23 | 1684.55 | 897.65 | 119.60 | 0.00 | 0.00 | 0.00 |
| | | | | | | Kg/m | 0.222 | 0.395 | 0.617 | 0.888 | 1.208 | 1.578 | 2.466 | 3.551 |
| | | | | | | weight | 0.00 | 96.87 | 1039.37 | 797.11 | 144.48 | 0.00 | 0.00 | 0.00 |

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| | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|
| **Total length** | 0.00 | 1884.53 | 3077.69 | 1459.60 | 641.40 | 872.82 | 31.80 | 0.00 |
| **Kg/m** | 0.222 | 0.395 | 0.617 | 0.888 | 1.208 | 1.578 | 2.466 | 3.551 |
| **weight** | **0.00** | **744.39** | **1898.93** | **###** | **774.81** | **###** | **78.42** | **0.00** |

| Item No | Description | Unit | Quantity | Unit Price | Sub-total |
|---|---|---|---|---|---|
| | **A. SUB-STRUCTURE** | | | | |
| | **1. Excavation & Earth work** | | | | |
| 1.1 | Clear off site to remove top soil, depth 200mm. | M² | 274.96 | 25.30 | 6,956.49 |
| 1.2 | Bulk excavation in ordinary soil over the site to reduce levels to a depth not exceeding 500mm starting from stripped ground level. | M³ | 124.36 | 400.00 | 49,744.00 |
| 1.3 | peripheral foundation wall to a depth not exceeding 1500mm starting from stripped ground level. | M³ | 80.04 | 231.02 | 18,490.84 |
| 1.4 | Pit excavation in ordinary soil for isolated footing to a depth not exceeding 1500mm starting from stripped ground level. | M³ | 142.82 | 284.33 | 40,608.01 |
| 1.5 | layers of not exceeding 200mm thick. The compaction should attain a minimum 97% of proctor density. | M³ | 130.03 | 423.63 | 55,084.61 |
| 1.6 | Ditto but, around stone masonry peripheral foundation. | M³ | 40.02 | 423.63 | 16,953.67 |
| 1.7 | outside of the site and well compacted in layers of not exceeding 200mm thick. The compaction should attain a minimum 97% of proctor density. | M³ | 13.91 | 193.73 | 2,694.78 |
| 1.8 | Cart away and spread surplus excavated materials to an appropriate tip. | M³ | 446.55 | 230.31 | 102,844.93 |
| 1.9 | Hard basaltic or equivalent stone hard core well rolled, consolidated and blinded with crushed stone to a finished thickness of 250 mm. | M² | 134.34 | 592.38 | 79,580.33 |
| | **Total carried to summary** | | | | **372,957.66** |

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| Item No | Description | Unit | Quantity Contracted | Unit Price | Sub-total |
|---|---|---|---|---|---|
| | **2. Concrete work** | | | | |
| **2.1** | **50mm thick lean concrete class C-5,with minimum cement content of 150 kg/m³ under :** | | | | |
| 2.1.1 | Isolated footing pads. | M² | 36.17 | 82.91 | 2,998.85 |
| 2.1.2 | Stone masonry peripheral foundation wall. | M² | 39.91 | 82.91 | 3,308.94 |
| 2.1.3 | Grade beams | M² | 39.91 | 82.91 | 3,308.94 |
| **2.2** | **Reinforced concrete class C-25, with minimum cement content of 360kg of cement/m³ cast into formwork and vibrated around rod reinforcement in:ppc cement** | | | | |
| 2.2.1 | Isolated footing pads | M³ | 39.91 | 2,299.70 | 91,781.03 |
| 2.2.2 | | M³ | 1.92 | 2,299.70 | 4,415.42 |
| 2.2.3 | Grade beams | M³ | 9.59 | 2,299.70 | 22,054.12 |
| 2.2.4 | Ditto, but concrete class C-25, with minimum cement content of 320kg of cement /m³ in 100cm thick ground slab. | M³ | 13.66 | 229.97 | 3,141.39 |
| **2.3** | | | | | |
| 2.3.1 | Isolated footing pads | M² | 28.38 | 225.45 | 6,398.27 |
| 2.3.2 | | M² | 30.63 | 249.97 | 7,656.58 |
| 2.3.4 | Grade beams | M² | 85.71 | 249.97 | 21,424.93 |
| **2.4** | **Reinforcement bars cut to size, bent to shapes, tied and placed in position according to structural drawings.** | | | | |
| 2.4.2 | Diameter 8 mm deformed bar | Kg | 620.16 | 67.78 | 42,034.44 |
| 2.4.3 | Diameter 10 mm deformed bar | Kg | 203.12 | 62.22 | 12,638.13 |
| 2.4.4 | Diameter 12 mm deformed bar | Kg | 2987.01 | 64.06 | 191,347.86 |
| | **Total carried to summary** | | | | **412,508.90** |
| | **3. Masonry work** | | | | |
| 3.1 | foundation wall bedded in cement sand mortar (1:4) | M³ | 53.415 | 37.98 | 2,028.70 |
| | **Total carried to summary** | | | | **2,028.70** |

CONTRACTOR

SUPERVISOR

| Item No | Description | Unit | Quantity Contracted | Unit Price | Sub-total |
|---|---|---|---|---|---|
| | **B. SUPER STRUCTURE** | | | | |
| | **1. Concrete work** | | | | |
| **1.1** | **Reinforced concrete class C-25, with minimum cement content of 360 kg of cement/m³ cast into formwork and vibrated around rod reinforcement in :** | | | | |
| 1.1.1 | Elevation columns | M³ | 6.69 | 2,644.87 | 17,694.18 |
| 1.1.2 | Solid Slab | M³ | 25.73 | 317.38 | 8,166.19 |
| 1.1.3 | Beams, lintels and top tie beams. | M³ | 15.06 | 2,644.87 | 39,831.74 |
| 1.1.4 | Staircase and landing | M³ | 2.80 | 2,644.87 | 7,405.64 |
| 1.1.5 | 48 mm cement screed | M² | 51.29 | 114.38 | 5,866.55 |
| 1.1.6 | 30mm cement screed | M² | 323.51 | 114.38 | 37,003.07 |
| **2.1** | **Provide, cut and fix in position sawn zigba wood or steel panels formwork to:** | | | | |
| 2.1.1 | Elevation columns | M² | 87.04 | 286.74 | 24,957.85 |
| 2.1.2 | Solid Slab | M² | 173.52 | 278.59 | 48,340.94 |
| 2.1.3 | Beams, lintels and top tie beams. | M² | 171.18 | 278.59 | 47,689.04 |
| 2.1.4 | Staircase and landing | M² | 24.09 | 313.01 | 7,540.41 |
| 2.1.5 | Reinforcement bars cut to size, bent to shapes tied and placed in position according to structural drawing. | | | | |
| 2.1.6 | Diameter 8 mm deformed bar | Kg | 744.39 | 68.40 | 50,916.28 |

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| Item No | Description | Unit | Quantity Contracted | Unit Price | Sub-total |
|---|---|---|---|---|---|
| 2.1.7 | Diameter 10 mm deformed bar | Kg | 1898.93 | 62.61 | 118,892.01 |
| 2.1.8 | Diameter 12 mm deformed bar | Kg | 1296.12 | 64.45 | 83,534.93 |
| 2.1.9 | Diameter 14 mm deformed bar | Kg | 774.81 | 59.85 | 46,372.38 |
| 2.1.10 | Diameter 16 mm deformed bar | Kg | 1377.31 | 54.91 | 75,628.09 |
| 2.1.11 | Diameter 20 mm deformed bar | Kg | 78.42 | 58.97 | 4,624.43 |
| | **Total carried to summary** | | | | **624,463.73** |
| | **3. Masonry work** | | | | |
| | **3.1 HOLLOW CONCRETE BLOCK WALLS** | | | | |
| 3.1.1 | 200mm thick hollow concrete block wall in class A blocks bedded in cement mortar ( 1:3) both sides left for plastering . Horizontal an vertical joints racked out to form adulate boned for plastering | M² | 381.75 | 435.89 | 166,401.01 |
| 3.1.2 | 150mm thick hollow concrete block wall in class A blocks bedded in cement mortar ( 1:3) both sides left for plastering . Horizontal an vertical joints racked out to form adulate boned for plastering | M² | 158.46 | 364.39 | 57,741.24 |
| 3.1.3 | 400mm thick dressed stone on left side of building | M² | 13.67 | 1,409.36 | 19,265.95 |
| | **Total carried to summary** | | | | **243,408.20** |
| | **4.ROOF** | | | | |
| 4.1 | galvanized corrugated steel sheet G-28 | M² | 11.93 | 362.25 | 4,321.64 |
| | **Total carried to summary** | | | | **4,321.64** |
| | **5.carpentery and joinery** | | | | |
| 5.1 | 5*7 cm wooden purin | M | 276.33 | 82.76 | 22,869.07 |
| 5.2 | Wooden Door | M² | 23.31 | 1,499.30 | 34,948.68 |
| 5.3 | ø 10cm eucalyptus upper & lower member | M | 349.42 | 76.3 | 26,660.75 |
| 5.4 | ø 8cm eucalyptus vertical & diagonal member | M | 303.66 | 64.50 | 19,586.07 |
| 5.50 | chip wood ceiling | M² | 48.88 | 355.49 | 17,376.35 |
| | **Total carried to summary** | | | | **121,440.92** |
| | **6.Metal and wood work** | | | | |
| | **6.1.DOOR** | | | | |
| 6.1.1 | 1640*2700mm Almunium | pcs | 1.00 | 6,643.00 | 6,643.00 |
| 6.1.2 | 900*2400mm Almunium | pcs | 6.00 | 3,973.00 | 23,838.00 |
| | **6.2 window** | | | | |
| 6.2.1 | 600*2300mm Aluminum | pcs | 2.00 | 3,241.00 | 6,482.00 |
| 6.2.2 | 600*800mm Aluminum | pcs | 2.00 | 1,564.00 | 3,128.00 |
| 6.2.3 | 1000*1150mm Aluminum | pcs | 2.00 | 2,050.00 | 4,100.00 |
| 6.2.4 | 1000*750mm Aluminum | pcs | 4.00 | 1,943.00 | 7,772.00 |
| 6.2.5 | 1700*900mm Aluminum | pcs | 2.00 | 3,765.00 | 7,530.00 |
| 6.2.6 | 2500*1500mm Aluminum | pcs | 2.00 | 7,622.10 | 15,244.20 |
| 6.2.7 | 2300*600mm Aluminum | pcs | 2.00 | 4,432.00 | 8,864.00 |
| 6.2.8 | 2400*1250mm Aluminum | pcs | 2.00 | 5,643.00 | 11,286.00 |
| 6.2.9 | 2500*2400mmAluminum | pcs | 2.00 | 9,933.00 | 19,866.00 |
| 6.2.10 | 900*3600mm Aluminum | pcs | 2.00 | 674.32 | 1,348.64 |
| 6.2.11 | 2500*1500mm Aluminum | pcs | 4.00 | 7,622.00 | 30,488.00 |
| | **Total carried to summary** | | | | **146,589.84** |

CONTRACTOR SUPERVISOR

| Item No | Description | Unit | Quantity Contracted | Unit Price | Sub-total |
|---|---|---|---|---|---|
| | **7. FINISHING WORK** | | | | |
| | **7.1 plastering** | | | | |
| 7.1.1 | Apply three coats of plaster in cement sand mortar mix 1:3 finish to internal wall. All wall-concrete structure joints shall be recessed to avoid hairline cracks. | M² | 540.21 | 44.78 | 24,190.60 |
| 7.1.2 | Apply three coats of plaster in cement-sand mortar mix 1:3 up to coarse finish for external walls and externally exposed beams | M² | 110.62 | 44.78 | 4953.5636 |
| | **7.2.Floor finish** | | | | |
| 7.2.1 | 500*500 mm ceramic tile | M² | 56.20 | 334.21 | 18,782.60 |
| 7.2.2 | terazone tile | M² | 4.20 | 528.92 | 2,221.46 |
| 7.2.3 | parquate tile | M² | 73.59 | 237.00 | 17,440.83 |
| 7.2.4 | marble chip | M² | 63.40 | 2,032.61 | 128,867.47 |
| 7.2.5 | plastic tile | M² | 90.80 | 320.00 | 29,056.00 |
| 7.2.6 | concrete tile | M² | 26.28 | 313.00 | 8,225.64 |
| | **skerting** | | | | |
| 7.3.7 | terazone skerting | ml | 52.90 | 209.28 | 11,070.91 |
| 7.3.8 | ceramic skerting | ml | 14.10 | 152.58 | 2,151.38 |
| | **Total carried to summary** | | | | **246,960.45** |
| | **8.Glazing** | | | | |
| | **8.1 DOOR** | | | | |
| 8.1.1 | 4mm thick frosted glass) | M² | 17.75 | 674.82 | 11,978.06 |
| | **8.2 WINDOW** | | | | - |
| 8.2.1 | 4mm thick frosted glass) | M² | 3.72 | 674.82 | 2,510.33 |
| 8.2.2 | 6mm thick figured glass | M² | 5.46 | 620.00 | 3,385.20 |
| 8.2.3 | 4mm thick tinted glass | M² | 18.63 | 574.00 | 10,693.62 |
| 8.2.4 | 4mm thick Clear glass | M² | 18.48 | 600.57 | 11,098.53 |
| 8.2.5 | 6mm thick Clear glass | M² | 15.00 | 900.00 | 13,500.00 |
| | **Total carried to summary** | | | | **53,165.74** |
| | **9.painting** | | | | |
| 9.1 | apply quartiz paint to external wall | M² | 381.75 | 206.39 | 78789.3825 |
| 9.2 | apply two coat of synthetic enamel paint to internal wall | M² | 154.00 | 63.77 | 9820.58 |

CONTRACTOR SUPERVISOR

**Project: For Dessie  town cost Break Down**

**Work Item: C-25 concrete (Sub-structure) (2.04)**

TOTAL QUANTITY OF WORK ITEM ... 1m3 **hourly out put** **1.25 m3/hr**

| MATERIAL COST (A) | | | | | LABOUR COST (B) | | | | | EQUIPMENT COST (C) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type of material | unit | quantity | rate | cost per unit | labour by trade | no. | u.f | indexed hourly cost | hourly cost | type of equipment | no. | u.f | hourly rental rate | hourly cost |
| Cement( P | Kg/m³ | 400.00 | 2.50 | 1000.00 | Forman | 1 | 1 | 3.60 | 3.60 | Mixer | 1 | 1 | 112.50 | 112.50 |
| Sand | m³/m³ | 0.56 | 428.70 | 240.07 | Plasterer | 2 | 1 | 22.50 | 45.00 | Vibrator | 1 | 1 | 45.00 | 45.00 |
| Aggregate | m³/m³ | 0.83 | 478.57 | 397.21 | Carpenter | 1 | 0.25 | 31.50 | 7.88 | Hand tools | 9 | 1 | 2 | 18 |
| Water | m³/m³ | 0.50 | 7.50 | 3.75 | Bar-Bende | 1 | 1 | 21.00 | 21.00 | | | | | |
| | | | | | Mixer oper | 1 | 1 | 12.00 | 12.00 | | | | | |
| | | | | | Vibrator op | 1 | 1 | 27.00 | 27.00 | | | | | |
| | | | | | D.Laboure | 18 | 1 | 10.80 | 194.40 | | | | | |
| Total | | | | 1641.03 | Total | | | | 310.88 | Total | | | | 175.5 |
| **A=MATERIAL UNIT COST=** | | | | **1641.03** | **B= MAN POWER UNIT COST =** | | | | **248.70** | **C = EQUIPMENT UNIT COST =** | | | | **140.40** |

DIRECT COST OF WORK ITEM = A+B+C = 2030.13

UNIT COST OF WORK ITEM INCLUSIVE OF

OVERHEAD AND PROFIT=1.35/DIRECT COST/= **2740.68** Birr/m3 **274.07** Birr/m2 411.102

**Work Item: 12mm diam.reinforcement Bars (Sub-structure)(2.06d)**

TOTAL QUANTITY OF WORK ITEM ... 1kg hourly out put **12.50** kg/hr

| MATERIAL COST (A) | | | | | LABOUR COST (B) | | | | | EQUIPMENT COST (C) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type of material | unit | quantity | rate | cost per unit | labour by trade | no. | u.f | indexed hourly cost | hourly cost | type of equipment | no. | u.f | hourly rental rate | hourly cost |
| Reinforcen | kg/kg | 1.05 | 38.90 | 40.85 | Forman | 1 | 0.167 | 36.00 | 6.01 | Bar cutter | 1 | 1 | 16.25 | 16.25 |
| Typing Wir | kg/kg | 0.02 | 55.00 | 1.10 | Bar-Bende | 1 | 1 | 21.00 | 21.00 | Hand tools | 2 | 1 | 2.00 | 4.00 |
| | | | | | D.Labourer | 2 | 1 | 10.80 | 21.60 | | | | | |
| | | | | | | | | | | | | | | |
| Total | | | | 41.95 | Total | | | | 48.61 | Total | | | | 20.25 |
| **A=MATERIAL UNIT COST=** | | | | **41.95** | **B= MAN POWER UNIT COST =** | | | | **3.89** | **C = EQUIPMENT UNIT COST =** | | | | **1.62** |

DIRECT COST OF WORK ITEM = A+B+C = 47.46

UNIT COST OF WORK ITEM INCLUSIVE OF

OVERHEAD AND PROFIT=1.35/DIRECT COST/= **64.07** Birr/Kg

**Work Item: Form work  Elevation columns ,Beams &lintels,concrete wall&lift shaft (Super - structure)(1.02 & 4.02)**

TOTAL QUANTITY OF WORK ITEM ... 1m² **hourly out put** **0.50 m²/hr**

| MATERIAL COST (A) | | | | | LABOUR COST (B) | | | | | EQUIPMENT COST (C) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type of material | unit | quantity | rate | cost per unit | labour by trade | no. | u.f | indexed hourly cost | hourly cost | type of equipment | no. | u.f | hourly rental rate | hourly cost |
| Boards /Ti | m³/m² | 0.0130 | 1800.00 | 23.4 | Forman | 1 | 0.25 | 36.00 | 9.00 | Handtools | 3 | 1 | 2 | 6 |
| Batten zig | ml/m² | 1.0500 | 20.00 | 21 | Carpenter | 1 | 1 | 31.00 | 31 | | | | | |
| Eucalyptus | ml/m² | 1.050 | 20.00 | 21.00 | D.Laboure | 2 | 1 | 10.80 | 21.6 | | | | | |
| Nail | kg/m² | 0.3 | 36.00 | 10.80 | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Total | | | | 76.20 | Total | | | | 61.60 | Total | | | | 6 |
| **A=MATERIAL COST=** | | | | **76.20** | **B= MAN POWER UNIT COST =** | | | | **123.20** | **C = EQUIPMENT UNIT COST =** | | | | **12.00** |

DIRECT COST OF WORK ITEM = A+B+C = 211.40

UNIT COST OF WORK ITEM INCLUSIVE OF

OVERHEAD AND PROFIT=1.35/DIRECT COST/= **285.39** Birr/m²

**Work Item: Three Coats of Plaster cement mortar to soffits**

TOTAL QUANTITY OF WORK ITEM ...1m² **hourly out put** **0.38 m²/hr** 0.375

| MATERIAL COST (A) | | | | | LABOUR COST (B) | | | | | EQUIPMENT COST (C) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type of material | unit | quantity | rate | cost per unit | labour by trade | no. | u.f | indexed hourly cost | hourly cost | type of equipment | no. | u.f | hourly rental rate | hourly cost |
| Cement (p | kg | 10.95 | 2.50 | 27.38 | Forman | 1 | 0.25 | 36.00 | 9.00 | Hand Tools | 2 | 1 | 2 | 4.00 |
| Sand | m³ | 0.018 | 428.57 | 7.71 | Plasterer | 1 | 1 | 22.50 | 22.50 | | | | | |
| Water | m³ | 0.075 | 7.50 | 0.56 | D. Labuore | 1 | 1 | 10.80 | 10.80 | | | | | |
| Total | | | | 35.65 | Total | | | | 42.30 | Total | | | | 4.00 |
| **A=MATERIAL COST=** | | | | **35.65** | **B= MAN POWER UNIT COST =** | | | | **111.32** | **C = EQUIPMENT UNIT COST =** | | | | **10.53** |

DIRECT COST OF WORK ITEM = A+B+C = 157.50

UNIT COST OF WORK ITEM INCLUSIVE OF

OVERHEAD AND PROFIT=1.35/DIRECT COST/= **212.63** Birr/m2

# SUMMARY OF STATEMENTS

.

Project **Residential Building**

Location **Addis Ababa**

client group 3

Details of works executed And/Or Materials Supplied

| Item No | Description | Contracted |
|---|---|---|
| | **A. Sub - Structure** | |
| 1 | Excavation & Earth work | 372,957.66 |
| 2 | Concrete work | 412,508.90 |
| 3 | Masonry work | 2,028.70 |
| | **TOTAL** | 787,495.26 |
| | **B. Super - Structure** | |
| 1 | Concrete work | 624,463.73 |
| 2 | Masonry works | 243,408.20 |
| 3 | metal and wood work | 146,589.84 |
| 4 | finishing work | 246,960.45 |
| 5 | Roof | 4,321.64 |
| 6 | Carpentary | 2,510.33 |
| | **TOTAL** | 1,268,254.19 |
| | **Grand Total** | **2,055,749.45** |

**ADD 15% VAT= 308,362.42**

**GRAND SUMMERY= ###**

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CONTRACTOR SUPERVISOR

# CERTIFICATE OF PAYMENT NO.01

Payment Requesition date 2

| | | |
|---|---|---|
| Project | G+1 RSIDENTIAL BUILDING | Main Contract |
| Location | ADDIS ABABA | Contingency |
| client | Ato Wudu Hassen | Supplementery |
| Address | ADDIS ABABA | Contract |
| Contractor | HW CONSTRUCTION P.L.C | Variation |
| Consultant | MGM Consulting Architects And Engineers | Vat 15% |
| | | Total Sum |

**Previous Consecutive Payment**

| IPC.No. | Date | Amount (Birr) | Vat 15% (Birr) | Withholding Tax 2% (Birr) | Amount with vat (Birr) |
|---|---|---|---|---|---|
| Adv | | 2,055,749.45 | 308,362.42 | | 2,364,111.87 |
| IPC NO.1 | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total | | 2,055,749.45 | 308,362.42 | 0.00 | ### |

To-Date Excuted Amount

| DEDUCTION | |
|---|---|
| Type of Deduction | Amount in birr |
| A..Retaintion(5%) | 102,787.47 |
| B.Advance Repayment 20% | 411,149.89 |
| C.Previous Payment | - |
| D.Withholding tax 2% | 41,114.99 |
| Total Deduction | 555,052.35 |
| Type of Adition | Amount in birr |
| Vat(15%) | 246,689.94 |
| G.Total Addition=(D-F) | 246,689.94 |
| Net Sum Due to The Contractor | |
| Total Sum Due to The Contractor With Vat | |

Summary of Vat

| | Amount (Birr) |
|---|---|
| Total To date vat 15% | 308,362.42 |
| Total Previous Vat 15% | 61,672.48 |
| This Month Vat 15% | 246,689.94 |

| Summary of With Holding | |
|---|---|
| Total to date With Hold TAX 2% | 41,114.99 |
| Total Previous With Hold TAX 2% | 0.00 |
| This Month With Hold TAX 2% | 41,114.99 |

| Summary of Advance Recovery | |
|---|---|
| Total Advance Money Taken | 2,364,111.87 |
| This Month Advance Recovered | 411,149.89 |
| Recovered | 1,952,961.98 |

**We Certify That The Contractor is N**
**To The Sum Of:- One Million seven eitghtee sixThaousand one Hundred and 50 cent**

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3/05/18

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