

SPECIFICATION AND BILL OF QUANTITY

FOR THE CONSTRUCTI WORK OF

COTTAGES

PLACE :

OWNER: :EPARCHY OF BARENTU(MOGOLO)

**PREPARED BY: ENG.AMANUEL
ZERAY**

community of
Eucharist(brothers
Place.

| Item | Description | Unit | Qty. | Rate | Total |
|---|---|------|------|------|-------------|
| <u>A.Sub structure</u> | | | | | |
| <u>1. Excavation & earth work</u> | | | | | |
| 1.1 | Site clearing to remove vegetable & soil to an average 20 cm. Thick & cart away | m2 | 64 | 20 | 1280 |
| 1.2 | Excavation trenches for stone masonry foundation to a depth not exceeding 100cm. | m3 | 10 | 160 | 1600 |
| 1.3 | Back fill around foundation columns with selected excavated material in layer of 20cm. Compacting each layer properly. | m3 | 5 | 111 | 555 |
| 1.5 | Cart away surplus excavated material outside of the site | m3 | 5 | 50 | 250 |
| 1.6 | Basaltic or equivalent hared core blended with stone chips & aggregate well compacted & consolidated to a finished thickness of 25cm. | m2 | 30 | 150 | 4500 |
| Total carried to summary | | | | | 8185 |
| <u>2.Concrete work.</u> | | | | | |
| 2.1 | 5cm Lean concrete blinding C-7, 150 k.g content of cement per Cu.m. base layer under concret structure. | m2 | 10 | 120 | 1200 |
| Note. Reinfoced concrete class, c-25, minimum cement content of 360 kg.per Cu. M. filled into form work & vibrated around rod reinfocement. [Rod reinfocement steel ang formwork meassured separetly | | | | | |
| 2.4 | In grade beams. | m3 | 2 | 3000 | 6000 |
| 2.5 | In 10cm. thick floor slab. | m2 | 30 | 300 | 9000 |
| Provide cut and fix in position sawn wood formwork for concrete works | | | | | |

| Item | Descreption | Unit | Qnt. | Rate | Total |
|--|---|------|------|------|-------|
| 2.9 | To grade beams | m2 | 8 | 554 | 4432 |
| 2.1 | Mild steel reinforcement of approved manufacture according to structural drawings. Price include supply, cut, bend and fix in position with all necessary ties and spacers. | | | | |
| 2.1 | 8 mm. Dia.deformed bars. | kg. | 130 | 90 | 11700 |
| 2.1 | 12mm. " " " | kg. | 80 | 90 | 7200 |
| 2.1 | 6 mm. " 'plain " | kg. | 40 | 95 | 3800 |
| TOTAL CARRIED TO SUMMARY | | | | | 43332 |
| <u>3.MASONARY WORK</u> | | | | | |
| 3.1 | 50cm.thick,stone masonry foundation wall below strip (bulk excavation) ground level to a depth of 100cm.with cement mortar mix .1:4. | m3 | 10 | 1250 | 12500 |
| 3.2 | Ditto, but above ground level ,price include pointing. | m3 | 5 | 1400 | 7000 |
| TOTAL CARRIED TO SUMMARY | | | | | 19500 |
| <u>B.SUPER STRUCTURE.</u> | | | | | |
| <u>1.CONCRETE WORK</u> | | | | | |
| Use reinforcement concrete class C-25 ,with minimum cement content of 360kg/m3. Filled into shutters and vibrated around rod reinforcement properly. | | | | | |
| All concrete work from elevation 0.00 upto +3.00m. | | | | | |
| 1.1 | In elevation columns. | m3 | 0.5 | 3100 | 1550 |
| 1.2 | In top tie beams | m3 | 1 | 3100 | 3100 |
| 1.3 | intel beams | m3 | 0.3 | 3100 | 930 |
| Provide cut & fix in position wooden form work accordingly for all concrete structure. | | | | | |
| 1.7 | To elevation columns | m2 | 10 | 310 | 3100 |

| Item | Description | Unit | Qty. | Rate | Total |
|----------------------------------|--|------|------|------|--------------|
| 1.8 | In top tie beams | m2 | 8 | 310 | 2480 |
| 1.9 | lintel beams | m2 | 4 | 310 | 1240 |
| 1,12 | Mild steel reinforcement of approved manufacture according to structural drawings. Price include supply ,cut,bend & fix in position with all necessary ties & spacers. | | | | |
| | 6 mm. " plain bars. | kg. | 130 | 97 | 12610 |
| | 10mm. " deformed bars. | kg. | 0 | 95 | 0 |
| | 12mm. " " " | kg. | 115 | 95 | 10925 |
| TOTAL CARRIED TO SUMMARY. | | | | | 35935 |
| <u>2. BLOCK WORK</u> | | | | | |
| 2.1 | HOLLOW CONCRET BLOCK wall. Bedded in compo-mortar mix . 1:2:6 both sides left for plastering. | m2 | 60 | 600 | 36000 |
| TOTAL CARRIED TO SUMMARY | | | | | 36000 |
| <u>3.ROOFING</u> | | | | | |
| 3.1 | Traditional pitch grass roof cover ,with fine work man skill,& all accessories measurment is horizontal | m2 | 35 | 500 | 17500 |
| 3.2 | Eucalyptuss wood for truss ,well treated & street with all accessories | pcs | 45 | 700 | 31500 |
| 3.3 | Metal sheet gutter 10X20 including roof eve price includes anti rust paint | ml | 179 | 190 | 34010 |
| Total carried to summary | | | | | 83010 |
| <u>4.JOINERY WORK</u> | | | | | |
| TOTAL CARRIED TO SUMMARY | | | | | 0 |

| Item | Descreption | Unit | Qnt. | Rate | Total |
|----------------------------------|--|------|------|-------|--------------|
| <u>5.METAL WORK</u> | | | | | |
| 5.1 | Metal gate doors with LTZ section frame with all accessories and locks to be best quality | | | | |
| | D1a (120 x 240)cm | pc | 1 | 15000 | 15000 |
| 5.2 | Ditto but window 150X100 CM | pc | 3 | 7000 | 21000 |
| TOTAL CARRIED TO SUMMARY | | | | | 36000 |
| <u>6.FINISHING WORK</u> | | | | | |
| 6.1 | Apply three coats of plaster in compo-mortar upto smooth fine finish ,to all internal wall surface and exposed beams. | m2 | 60 | 190 | 11400 |
| 6.2 | Ditto,but to external wall surface | m2 | 60 | 190 | 11400 |
| <u>PAVING</u> | | | | | |
| 6.5 | Terrazzo tile floor finish including 3cm. Thick cement &sand screed 1:3 mix. Joints pointed in cement past,finished clean &polished. | m2 | 30 | 1700 | 51000 |
| TOTAL CARRIED TO SUMMARY. | | | | | 73800 |
| <u>7.PAINTING</u> | | | | | |
| 7.1 | Apply three coats of approved type of plastic emulsion paint to internal plasterd wall surfaces. | m2 | 60 | 120 | 7200 |
| 7.2 | Ditto, but to external wall surface. | m2 | 60 | 120 | 7200 |
| Total carried to summary | | | | | 14400 |

SUMMARY

A.SUB -STRUCTURE

| | | |
|--------------------------|------|-------|
| 1 EXCAVATION &EARTH WORK | Naf. | 8185 |
| 2 CONCRETE WORK | Naf. | 43332 |
| 3 MASONARY WORK | Naf. | 19500 |

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|--------------------|-------------|--------------|
| SUB - TOTAL | Naf. | 71017 |
|--------------------|-------------|--------------|

B.SUPER STRUCTURE

| | | |
|---------------------------|------|-------|
| 1 CONCRETE WORK | Naf. | 35935 |
| 2 BLOCK WORK | Naf. | 36000 |
| 3 ROOFING &WATER PROOFING | Naf. | 83010 |
| 4 METAL WORK | Naf. | 36000 |
| 5 FINISHING | Naf. | 73800 |
| 6 PAINTIG | Naf. | 14400 |

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|--------------------|-------------|---------------|
| SUB - TOTAL | Naf. | 279145 |
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| TOTAL (A+B) | Naf. | 350162 |
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