

**PROPOSED CONSTRUCTION OF SEPTIC TANK**

| <b>ITEM</b> | <b>DESCRIPTION</b>                                                                                                      | <b>UNIT</b> | <b>QTY</b> | <b>RATE</b> | <b>KSHS</b> |
|-------------|-------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|-------------|
|             | <b><u>SEPTIC TANK FOR 60 PERSONS</u></b>                                                                                |             |            |             |             |
|             | <b><u>ALL PROVISIONAL</u></b>                                                                                           |             |            |             |             |
| A           | Excavate for pit not exceeding 1.5m deep commencing from ground level                                                   | CM          | 28         |             |             |
|             |                                                                                                                         | CM          | 26         |             |             |
| B           | Ditto between 1.5 and 3,0m deep                                                                                         | CM          | 12         |             |             |
| C           | Excavate for manhole not exceeding 1.5m deep                                                                            |             |            |             |             |
| D           | Extra over excavation for excavating in rock any class                                                                  | CM          | 20         |             |             |
| E           | Return, fill and ram selected excavated materials around walls and foundations                                          | CM          | 30         |             |             |
| F           | Level and cart away excavated materials                                                                                 | CM          | 56         |             |             |
| G           | 50mm thick plain concrete 1.1.8 blinding under foundations footing                                                      | ITEM        |            |             |             |
|             |                                                                                                                         | SM          | 6          |             |             |
| H           | Ditto but laid to falls not exceeding 15 degrees from horizontal                                                        | SM          | 16         |             |             |
| I           | Plain concrete 1.3.6 in manhole size 800x600mm footing                                                                  | SM          | 6          |             |             |
| J           | Ditto in benching average 200mm high in manhole size 600x850mm including forming 150mm diameter hail round main channel | NO          | 4          |             |             |
| K           | Vibrated reinforced concrete 1.2.4 to 150mm floor bed to falls not exceeding 15 degrees from horizontal                 | SM          | 16         |             |             |
| L           | 100mm thick scum baffle walling                                                                                         | SM          | 6          |             |             |
| M           | 100mm thick suspended scum baffle walling                                                                               | SM          | 4          |             |             |
| N           | 150mm thick cover slab                                                                                                  | SM          | 18         |             |             |
| O           | Ditto manhole cover slab                                                                                                | SM          | 4          |             |             |
|             | <b>CARRIED TO COLLECTION</b>                                                                                            |             |            |             |             |

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|-------------|--------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|-------------|
|             | <b><u>CONTINUATION FOR PAGE ONE</u></b>                                                                                  |             |            |             |             |
|             | <b><u>FORM WORK</u></b>                                                                                                  |             |            |             |             |
|             | <b><u>SAWN FORMWORK TO</u></b>                                                                                           |             |            |             |             |
| A           | Sides and soffits of suspended scum baffle                                                                               | SM          | 18         |             |             |
| B           | Soffits of cover slab                                                                                                    | SM          | 14         |             |             |
| C           | Boxing to ditto for manhole cover (m.s) opening size 150x600mm                                                           | SM          | 8          |             |             |
| D           | Sides and edges of cover slab 150-225mm high                                                                             | SM          | 30         |             |             |
| E           | Soffits of manhole                                                                                                       | NO          | 2          |             |             |
|             | <b><u>REINFORCEMENT</u></b>                                                                                              |             |            |             |             |
| F           | BRC Mesh ref 142(net)to baffle walling                                                                                   | SM          | 16         |             |             |
| G           | Ditto to baffle walls                                                                                                    | KG          | 4          |             |             |
| H           | 12mm diameter high tensile square twisted bars                                                                           | KG          | 460        |             |             |
| I           | 200mm thick solid concrete block walling in cement sand mortar 1:1                                                       | SM          | 50         |             |             |
| J           | Ditto but 150mm degrees to horizontal with sulphate resistant cement                                                     | SM          | 18         |             |             |
| K           | Ditto to sides and soffits of suspended scum baffles                                                                     | SM          | 18         |             |             |
| L           | Ditto to walls                                                                                                           | SM          | 44         |             |             |
|             | Ditto to top and sides of cover slab                                                                                     | SM          | 22         |             |             |
| M           | Light duty cast tron(grade c)manhole cover and                                                                           |             |            |             |             |
| N           | frame size 600x150mm with 37 kg weight including bedding frame in cement and sand mortar 1:2 and setting cover in grease | SM          | 2          |             |             |
|             | <b><u>CARRIED TO COLLECTION</u></b>                                                                                      |             |            |             |             |

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| <b>ITEM</b> | <b>DESCRIPTION</b>                                 | <b>UNIT</b> | <b>QTY</b> | <b>RATE</b> | <b>KSHS</b> |
|-------------|----------------------------------------------------|-------------|------------|-------------|-------------|
|             | <b><u>BROUGHT FORWARD FROM PAGE 2</u></b>          |             |            |             |             |
| A           | 100mm diameter P.V.C inlet pipe with equal "Tee"   | NO          | 1          |             |             |
| B           | 100mm diameter U.P.V.C outlet pipe 750mm long      | NO          | 1          |             |             |
| C           | Form or leave 150mm diameter hole in 200mm walling | NO          | 2          |             |             |
| D           | Ditto 150mm walling                                | NO          | 2          |             |             |
|             | Carried to collection                              |             |            |             |             |
|             | <b>COLLECTION</b>                                  |             |            |             |             |
|             | Brought forward from 1                             |             |            |             |             |
|             | " " " " page 2                                     |             |            |             |             |
|             | " " " " above                                      |             |            |             |             |
|             | <b>TOTAL FOR SEPTIC TANK CARRIED TO SUMMARY</b>    |             |            |             |             |
|             | <b>CARRIED TO COLLECTION</b>                       |             |            |             |             |

**PROPOSED CONSTRUCTION OF SEPTIC TANK**

| <b>ITEM</b> | <b>DESCRIPTION</b>                                                        | <b>UNIT</b> | <b>QTY</b> | <b>RATE</b> | <b>KSHS</b> |
|-------------|---------------------------------------------------------------------------|-------------|------------|-------------|-------------|
|             | <b><u>1 NO SOAK PIT(RE-MEASURED)</u></b>                                  |             |            |             |             |
|             | <b><u>THE FOLLOWING IN 1 NO AS PER THE DRAWING PROVIDED</u></b>           |             |            |             |             |
| A           | Excavate pit not exceeding 1.5m deep starting from original ground level  | CM          | 3          |             |             |
| B           | Ditto between 1.5m 3.0m deep                                              | CM          | 2          |             |             |
| C           | Ditto 3.0m 4.5m deep                                                      | CM          | 2          |             |             |
| D           | Ditto between 4.5 6.0m deep                                               | CM          | 2          |             |             |
| E           | Ditto between 6.0 7,5m deep                                               | CM          | 2          |             |             |
| F           | Extra over excavation for excavation in rock class A                      | CM          | 8          |             |             |
| G           | Cart away surplus excavated materials from site                           | CM          | 11         |             |             |
| H           | Return ,fill in and consolidate excavated materials around the foundation | CM          | 4          |             |             |
|             | <b>TOTAL FOR SOAK PIT</b>                                                 |             |            |             |             |
|             | <b>ADD TOTAL FOR SEPTIC</b>                                               |             |            |             |             |
|             | <b>TOTAL FOR SEPTIC TO SUMMARY PAGE</b>                                   |             |            |             |             |
|             |                                                                           |             |            |             |             |

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| <b>ITEM</b> | <b>DESCRIPTION</b>                             | <b>UNIT</b> | <b>QTY</b> | <b>RATE</b> | <b>KSHS</b> |
|-------------|------------------------------------------------|-------------|------------|-------------|-------------|
| A           | <b><u>BROUGHT FORWARD FROM PAGE</u></b>        |             |            |             |             |
|             | Total brought forward from sub collection page |             |            |             |             |
| B           | Total brought forward from sub collection page |             |            |             |             |
| C           | Total brought forward sub collection page      |             |            |             |             |
|             | <b><u>TOTALS CARRIED TO GRAND SUMMARY</u></b>  |             |            |             |             |

**PROPOSED CONSTRUCTION OF SEPTIC TANK**

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UNIT | QTY | RATE | KSHS |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|------|
|      | <p><i>Supply and fix the following sanitary appliances complete with all the accessories including all connections to services waste jointing to supply over flows and all plugging and screwing to walls and floors</i></p> <p><b><u>WATER CLOSETS</u></b></p> <p>Low level wash down closet suite in white vitreous china complete with horizontal outlet, low level 7.5 litre cistern , black heavy duty plastic seat and cover and S trap outlet .The suite to be supplied complete with velveness cistern fittings including siphon, 15mm side inlet ball valve ,20mm side overflow plastic flush bend , inlet connection and reversible chrome plated cistern lever and cistern supports .All to be Twyfolds Class H.O (1998) OR APPROVED EQUIVALENT</p> |      |     |      |      |
| A    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO   | 1   |      |      |
|      | <p><b><u>TOILET ROLLS HOLDER</u></b></p> <p>Semi-recessed toilet roll holder in vitreous china ,size 165mm as Twyfolds Ref No VC 9806WH or approved equivalent</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |      |      |
| B    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO   | 1   |      |      |
|      | <p>6mm thick polished plate glass, silver backed mirror with beveled edges size 610x457mm plugged and screwed to wall with 4 no chrome plated dome capped screws and 5mm thick foam back rest.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |      |      |
| C    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO   | 1   |      |      |

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|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |   |  |  |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|--|--|
| D | <p><b><u>WASH HAND BASIN</u></b></p> <p>Wash hand basin size 560x405mm of the wall fixing type, with one tap hole and chain stay hole to be complete with wall brackets, chrome plated 15mm approved pillar tap, plastic 32mm diameter bottle trap with 75mm seal, chain waste and a set of fixing brackets. The wash hand basin to be as</p> <p><b><u>CARRIED FORWARD FROM</u></b></p> <p>Twyford "CLASSIC" and taps as Twyfords "AMAZON" or equal and approved</p> | NO | 1 |  |  |
| A | <p><b><u>TOWEL ROLL</u></b></p> <p>Towel rail size 82x650mm long as Twyfolds towel rail cat no PB 0360 CP or equal and approved</p>                                                                                                                                                                                                                                                                                                                                  | NO | 1 |  |  |
| B | <p><b><u>SHOWER FITTING</u></b></p> <p>Canceled shower riser and mixer for cold and hot water with a swivel head as "BRICON" or equal and approved</p>                                                                                                                                                                                                                                                                                                               | NO | 1 |  |  |
|   | <p><b>SUB-TOTAL CARRIED FORWARD TO SUB-COLLECTION PAGE</b></p> <p><b>TOTAL BROUGHT FORWARD FRO PAGE</b></p> <p><b>TOTAL BROUGHT FORWARD FROM PAGE</b></p>                                                                                                                                                                                                                                                                                                            |    |   |  |  |

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| ITEM | DESCRIPTION                                                                                                                                                                                                                                   | UNIT | QTY | RATE | KSHS |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|------|
|      | <u>Supply deliver and install galvanized mild steel pipes and tubing to BS 1387 Class B with screwed and socketed joints to BS 143 and 1256 from approved manufacturer with galvanized to BS 729. Actual lengths to be determined on site</u> |      |     |      |      |
|      | <b><u>PIPEWORK</u></b>                                                                                                                                                                                                                        |      |     |      |      |
| A    | 15mm diameter g.ms pipe                                                                                                                                                                                                                       | LM   | 6   |      |      |
| B    | 20mm diameter ditto                                                                                                                                                                                                                           | LM   | 16  |      |      |
| C    | 25mm diameter ditto                                                                                                                                                                                                                           | LM   | 14  |      |      |
|      | EXTRA OVER PIPE FITTINGS                                                                                                                                                                                                                      | NO   | 1   |      |      |
| D    | 15mm diameter bends                                                                                                                                                                                                                           | NO   | 2   |      |      |
| E    | 20mm diameter ditto                                                                                                                                                                                                                           | NO   | 2   |      |      |
| F    | 25mm diameter ditto                                                                                                                                                                                                                           | NO   | 2   |      |      |
| G    | 20x15x15mm diameter tee                                                                                                                                                                                                                       | NO   | 2   |      |      |
| H    | 25x20x15mm diameter ditto                                                                                                                                                                                                                     | NO   | 2   |      |      |
| I    | 25x20x20mm diameter ditto                                                                                                                                                                                                                     | NO   | 2   |      |      |
| J    | 25x25x20mm diameter ditto                                                                                                                                                                                                                     | NO   | 2   |      |      |
| K    | 20mm diameter gate valve                                                                                                                                                                                                                      | NO   | 3   |      |      |
| L    | 25mm diameter ditto                                                                                                                                                                                                                           | NO   | 2   |      |      |
| M    | 15mm diameter CP angle valves                                                                                                                                                                                                                 | NO   | 2   |      |      |
| N    | 20mm diameter unions                                                                                                                                                                                                                          | NO   | 3   |      |      |
| O    | 25mm diameter unions                                                                                                                                                                                                                          | NO   | 4   |      |      |
| P    | 20x15mm reducer                                                                                                                                                                                                                               | NO   | 4   |      |      |
| Q    | Flexible tubing                                                                                                                                                                                                                               | NO   | 2   |      |      |



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| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UNIT | QTY | RATE | KSHS |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|------|
|      | <p><u>Supply, deliver and fix the following in UPVC Soil and waste systems to BS4514 and 5225 with fittings fixed in accordance to the manufactures printed installations and BS 5572 and manufactures by 'KEY' terrain as described. All UPVC branches, tees, reducing tees, reducers etc are to be formed in accordance to the manufactures printed instructions. The installation to have the various sizes of connections, adaptors, sockets, reducers, hold bats, clips, etc as required for satisfactory functions. Actual pipe lengths to be determined on site</u></p> <p><b><u>DRAINAGE PIPEWORK AND FITTINGS</u></b></p> |      |     |      |      |
| A    | 100mm diameter golden brown UPVC pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NO   | 22  |      |      |
| B    | 100mm diameter grey UPVC pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NO   | 16  |      |      |
| C    | 40mm diameter ditto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO   | 8   |      |      |
| D    | 32mm diameter ditto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO   | 8   |      |      |
| E    | 100mm diameter ditto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NO   | 2   |      |      |
| F    | 40mm diameter ditto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO   | 2   |      |      |
| G    | 32mm diameter ditto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO   | 2   |      |      |
| H    | 100mm diameter WC Connectors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NO   | 1   |      |      |
| I    | 100mm diameter vent cowl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NO   | 1   |      |      |
| J    | 100mm diameter wethering slate and apron                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NO   | 1   |      |      |
| K    | 100mm diameter gulley trap c/w chamber and mild steel grating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | 2   |      |      |
| L    | 100x50mm diameter floor trap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NO   | 3   |      |      |
|      | <b>SUB-TOTAL CARRIED TO SUB-COLLECTION PAGE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |      |      |

**PROPOSED CONSTRUCTION OF SEPTIC TANK**

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                   | TOTALS  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|      | <p><b><u>PRIME COSTS AND PROVISIONAL SUMS</u></b></p> <p><b><u>DESCRIPTION</u></b></p> <p><b><u>PROVISIONAL SUMS</u></b></p> <p><u>The following provisional items are to be measured on completion of the works and priced in accordance with rates contained in these bill of quantities or pro-rata there to or deducted in whole if not required</u></p> <p>Provisional sum for:-</p> <p><b><u>PRIME COST SUM</u></b></p> |         |
| A    | Allow Kenya shillings fifty thousand for project manager                                                                                                                                                                                                                                                                                                                                                                      | 50,000  |
| B    | Allow Kenya shillings fifty thousand for project management                                                                                                                                                                                                                                                                                                                                                                   | 50,000  |
| C    | Allow Kenya shillings forty thousand for documentation                                                                                                                                                                                                                                                                                                                                                                        | 40,000  |
| D    | Allow Kenya shillings forty thousand for signage                                                                                                                                                                                                                                                                                                                                                                              | 40,000  |
| E    | Allow Kenya shillings one hundred for contingency                                                                                                                                                                                                                                                                                                                                                                             | 100,000 |

**PROPOSED CONSTRUCTION OF SEPTIC TANK**

| ITEM | DESCRIPTION                            | TENDERES AMOUNT(KSHS) | OFFICIAL USE |
|------|----------------------------------------|-----------------------|--------------|
| A    | BUILDERS WORKS                         |                       |              |
| B    | P.C AND PROVISIONAL SUMS               |                       |              |
|      | <b>TOTAL CARRIED TO FORM OF TENDER</b> |                       |              |

AMOUNT IN WORDS.....  
 .....  
 .....

TENDERES NAME.....

ADDRESS.....

SIGNATURE.....