




DETAILS OF MEASUREMENT AND CALCULATION OF QUANTITIES

| Item No. | Description of Items. | No. | Length | Breadth |  | Quantity | Explanatory notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Earthwork in excavation in foundation | 1 | 19.20 m | . 90 m | . 90 m | $\begin{aligned} & 15.55 \\ & \mathrm{cu} \mathrm{~m} \end{aligned}$ | Total centre length of all walls $=19.20 \mathrm{~m}$ |
| 2. | Concrete in foundation | 1 | 19.20 m | . 90 m | . 30 m | $\begin{gathered} 5.18 \\ \mathrm{cu} \mathrm{~m} \end{gathered}$ |  |
| 3. | Brickwork in foundation and plinth |  |  |  |  |  | - |
|  | Ist footing ... | 1 | 19.20 m | . 60 m | . 30 m | 3.46 |  |
|  | 2nd footing | 1 | 19.20 m | . 50 m | $.30 \mathrm{~m}$ | $2.88$ | . |
|  | Plinth wall | 1 | 19.20 m | . 40 m | . 60 m | 4.61 |  |
|  |  |  |  |  | Total | $10.95$ $\mathrm{cu} \mathrm{~m}$ | <大? |
| 4. | Brickwork in superstructure | 1 | 19.20 m | . 30 m | 3.50 m | 20.16 <br> cu m | Door and window openings, lintels, etc. to be deducted. |



## TYO ROONEED RUBEDING



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Doors D-1.20 m \(\times 2.10 \mathrm{~m}\) Shelyes \(5-1.00 \mathrm{~m} \times 1.50 \mathrm{~m}\)
\(x-1.10 \mathrm{~m} \rightarrow\) Lime sonc
CRAOSS SECTION OF WALL ON AA.
Note : -- No beam has been shown in the plan as the object of this cxample is to explain the metiod of estimating the walls only.
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| Iters No. | Particulars of Items | 180. | Lerngth | Sreadth | zeight or Depah | Qusentity | Explanatory noite |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Esuctherark in excavation in fouralation - <br> L.ong walls ... <br> Shore walls... | 23 | $\left.\left\lvert\, \begin{array}{r} 11.70 \mathrm{~m} \\ 5.20 \mathrm{~mm} \end{array}\right.\right]$ | $\begin{aligned} & 1.10 \mathrm{~m} \\ & 1.10 \mathrm{~m} \end{aligned}$ | 1.00 mm 1.00 mm | 25.74 17.16 | Long wali, c/c. length $=4+$ $6 \div-30+2 \times \frac{-30}{2}=10.60 \mathrm{~m}$ Short and Inter walls, cic. length $=6+2 \times \frac{.30}{2}=6.30 \mathrm{~m}$ $\begin{aligned} & L=10.60+1.10=11.70 \mathrm{~m} \\ & L=6.30-1.10=5.20 \mathrm{~m} \end{aligned}$ |
|  |  |  |  |  | Total | $\begin{aligned} & 42.90 \\ & \mathrm{cu} \mathrm{~m} \end{aligned}$ |  |
| 2. | Limet omprarefe in foundation . - <br> Long walks ... <br> Shore walls ... |  | - |  |  |  |  |
|  |  | 2 | 11.70 m | 1.10 m | . 30 mm | 7.72 | Length same for excavation |
|  |  | 3 | 5.20 mm | 1.10 m | . 30 m | 5.15 | Quantity -3/10 of excavation: |
| 3. | Bast class ivriclesesporls in 1:6 cemene moetar in foundation and plinch $\qquad$ <br> Long waits $\qquad$ <br> Ist footing ... |  |  | , | Total | $\begin{aligned} & 12.87 \\ & \mathrm{ca} \mathrm{~m} \end{aligned}$ |  |
|  |  | 2 | 11.40 mm | .80 mm | . 20 m | 3.65 | $\mathrm{L}=10.60+.80=11.40 \mathrm{~m}$ |
|  | 2nd fowlizer ... | 2 | 11.30 m | .70 m | .10 m | 1.58 | $\mathrm{L}=10.60 \div .70=11.30 \mathrm{~mm}$ |
|  | 3 rd footing ... | 2 | 11.20 mm | . 60 mm | .10 m | 1.34 | $\mathrm{L}=10.60+.60=11.20 \mathrm{~m}$ |
|  | 4th footinig ... | 2 | 11.10 m | . 50 m | .10 m | 1.11 | $\mathrm{L}=.10 .60+.50=11.10 \mathrm{~mm}$ |
|  | Plisath wall above footing | 2 | 11.00 m | -40 m | . 80 mm | 7.04 | $\mathrm{L}=10.60 \div .40=11.00 \mathrm{~m}$ |
|  | Shore walls $\qquad$ Ist foating ... | 3 | 5.50 mm | . 80 m | . 20 m | 2.64 | $\mathrm{L}-6.30-.80=5.50 \mathrm{mt}$ |
|  | 2nd footing ... | 3 | 5.60 - | . 70 mm | .10 mm | 1.18 | $\Sigma=6.30-.70=5.60 \mathrm{~m}$ |

Note = Dength of subsequent footings of long walls after Ist footing may be obeairred sirmply by deafuctiog ion cint frome finst foovirgs.





