EJMProjectX overview

EJMProjectX has a similar look-and-feel as Microsoft Office products:

- > The ribbon changes according to the task at hand: Estimating, Certificates, Subcontractor, Planning/Schedule
- > Reports can be sent by e-mail as PDF attachments. Underlying data can be exported to Excel

| Register or Edit | Create from EJMProject | ℃ Create & edit | Request Licence | Change Password | ि Register ☑ Select 剩 Compact & Repair | III Tables ▲ Font attrib | <mark>⊯</mark> Design <mark>!</mark> ★ Delete |
|---|---|--|--|--|--|--------------------------------------|--|
| | Project | Folders | Licence | Password | Project database | Utilities | Own report |
| | | t X add (c) 1982-2020 by EN | WWIN Sustem | s (Ptu) I tri | | | |
| Current project: Current project path Current project databa Path to CSV import and Link to accounting: C Slot number: 1 Company pame: EMW/IN | 0001 Stoor C:\EJMProjectX\ se ProjekX1.accdb Default da d export C:\EJMProjectX\ :\EJMProjectX\ Number in the accounting system Sustems (Publictd | Default folder for Pro tabase Type: S n: 0001 | Update ject data on lo Days rer Rer | ed: 🗹 ocal machine maining: 48 quest Licence | Support: Office telephone: 011 396 Alida: 084 547 0423 Lana: 082 454 5069 Ernst: 082 787 6892 EJM facebook - the faces Download update | 5 1809 / 3561 : <u>behind EJM</u> | |
| Selection on Slot Num | ber: Selection | on on Project Numbe | H: | ~ | EJM Teamviewe | er support | |
| Estimate | Subcontractor Management Subcontractors | Schedule | | | Cate | | |

Estimate overview

Resource library

- > The estimate is done in terms of resources
- Costs are captured against resources in the accounting and sub-systems compared in the Variance Report.
- > There are 9 major headings such as P&G, Plant, Labour, Material, Subcontractors.
- > Every nine major headings can have up to 26 subheadings numbered A to Z
- Resources are entered under the subheadings, e.g. 3B for Artisan and given a unique code such as 3B0010

| 1 P&G | 2 Plant | 3 Labour | 4 Material | 5 Material | 6 Pipes | 7Roads | 8 Subby | 9 Provision |
|----------------------------|---|----------------------------|--|--|---|----------------------------|-------------------------------|----------------|
| 1A Establish 1B Running | 2A Scaffold 2B Vehicles | 3A Supervise 3B Artisan | 4A Reinforce 4B Aggregates | 5A Cement 5B Additives | 6A uPVC 6B mPVC | 7A Stabilise 7B Bitumen | 8A Lab. only 8B Supply,Fit | 9A Provision |
| | 2C Small | 3C Operator | 4C Brick, block | 5C Readymix | 6C PVC | 7C Signs | | |
| | 2D Fuel Oil 2G Concrete 2I Loaders 2J Compress 2K Tractor 2P Excavator | 3D Skilled | 4E Window,dr 4G Plumbing 4H Waterprf 4I Ceiling 4K Ironmngr | 5D Shuttering 5E GeoTextile 5F Fasteners 5G Box | 6D HDPE 6E Polyprop 6G SolilDrain 6N Channels 6O OG pipe | 7D Gabions 7E Guardrail | | |

| Example | of resources: | | | |
|---------|-------------------|------|---------------------|-------------|
| Code | Description | Unit | Default Rate | Rate's Date |
| 3B | Labour / Artisans | | | |
| 3B0010 | Carpenter | Hour | 50.00 | 2019-12-18 |
| 3B0020 | Bricklayer | Hour | 50.00 | 2019-12-18 |
| 3D | Labour / Skilled | | | |
| 3D0010 | Skilled | Hour | 40.00 | 2019-12-18 |
| 3D0020 | Steelfixer | Hour | 40.00 | 2019-12-18 |

<u>Click here to download</u> sections from a Housing, Building and Civils resource library.

Cost centres

- > Cost centres is a way to link bill of quantity (BoQ) items together
- > All BoQ items to do with Earthworks will be assigned to cot centre C and all to do with concrete to F
- Together with the Project and Resource codes, Cost centres are also used when capturing costs in the Costing & Accounting system as well as the Payroll and Tool & Equipment that feeds into the cost ledger.
- Number refers to an internally generated number. Code can be changed and is used in the assigning and report. It must be unique. Accounting refers to the cost centre's code in the accounting system

| Number | Code | Description | Accounting |
|--------|------|----------------------|------------|
| 1 | А | PRELIMINARY & GEN | A |
| 2 | В | SITE & DEMOLITION | В |
| 3 | С | EARTHWORKS | С |
| 4 | D | FORMWORK & JOINTS | D |
| 5 | E | REINFORCEMENT | E |
| 6 | F | CONCRETE & WATERPRF | F |
| 7 | G | BRICKWORK | G |
| 9 | I | PLASTERING | I |
| 10 | J | CARPENTRY AND JOINER | J |
| 11 | К | ROOFING | К |
| 12 | L | CEILING & PARTITION | L |
| 13 | М | PLUMBING & DRAINAGE | Μ |
| 14 | N | IRONMONGERY | Ν |
| 15 | 0 | WINDOWS AND DOORS | 0 |

MasterBill

- > The MasterBill a standard list of recipes that the estimator builds up to rapidly price a new Bill of Quantities.
- In its build-up it can consist of two or more resources and or MasterBills with a lower code (use MasterBill A1001 in pricing MasterBill B1001 but not vice versa.)
- A MasterBill can used as it is if the target bill describes the same outcome as an associated MasterBill e.g. If there is a BoQ item that calls for the excavation in soft material per m3 and there is a MasterBill items B1001 that has been priced to do it, pricing of the target BoQ item becomes linking and copying from the MasterBill item B1001 to the target item
- > In pricing a MasterBill, any resource can be used and any MasterBill item lower down (towards the base of the pyramid)

Build up more complex MasterBills. MasterBill's can use resources and other Masterbills lower in the pyramid. Mortar (G00020) consisting of resources sand (4B3010) cement (5A0030), MasterBills Mixing Team (@Ht070) and Concrete Mixer (@PC019) can be used in a one-brick wall (G42039)

MASTERBILL (hierarchical with increasing complexity from @ to Z)

MasterBill Items

In building up a MasterBill you usually start with the basic building blocks/ assemli4s that will be used in more complex build-ups later

| MasterBill | Description | Unit | Rate |
|------------|---|------|----------|
| @HT | LABOUR TEAMS | | |
| @HT050 | Excavation team 1 + 4 unskilled | Day | 1 170.00 |
| @HT060 | Concrete Team 2 + 6 unskilled | Day | 2 070.00 |
| @HT110 | Carpentry Team 1 + 2 (small boxes, slab edges, columns, stairs) | Day | 1 170.00 |
| @HT150 | Pipe laying Team 1 + 3 | Day | 1 440.00 |
| @HT160 | Brick laying team 1 + 1 | Day | 810.00 |
| @HT170 | Brick laying Team 1 + 2 | Day | 1 170.00 |
| @HT200 | Kerb laying Team 1 + 3 | Day | 1 440.00 |
| @HT210 | Plaster team 1 + 2 | Day | 1 170.00 |
| @HT220 | Painting team 1 + 2 | Day | 1 170.00 |
| @P | PLANT, EQUIPMENT & TOOLS CLUSTERS | | |
| @PB | BACKHOE/ LOADERS | | |
| @PB010 | Backhoe Loader:2 X D: 7-8 t: (40Kw) | Hour | 435.00 |
| @PB020 | Backhoe Loader:4*4 D: 7-8 t: (50Kw) | Hour | 437.91 |
| @PC | CONCRETE EQUIPMENT | | |
| @PC030 | Con Mixer : Diesel/Petrol : 400 I w/o labour | Day | 2 030.00 |
| @PC110 | Con Trowel/Power Float: Walk Behind | Day | 380.80 |
| @PC125 | ConCrete Vibrators: Diesel/Petrol Drive plus poker w/o labour | Day | 380.80 |
| @PC130 | Concrete Saw:Manual Propelled 9.5 kW/13HP w/o labour | Day | 417.50 |
| @PD | BULLDOZERS | | |
| @PD010 | Bdozer :17-20t125kW: Cat D6 | Hour | 937.99 |
| @PD030 | Bdozer :30-35 t:200W:CatD9 | Hour | 1 395.18 |
| @PE | EXCAVATORS & LOADERS | | |
| @PE010 | Traxc:25t (120kW) Cat963 | Hour | 905.11 |
| @PE040 | Traxc:35t rock bucket (160kW) Cat330 | Hour | 1 109.00 |

These are then used in more complex MasterBill items:

| MasterBill | Description | Unit | Rate |
|------------|---|----------------|--------|
| C000 | Trench excavation | | |
| C00010 | Excavate trench (excavator) - intermediate material. Trim | M ³ | 55.38 |
| C00020 | Excavate trench (TLB) - soft. Hand trimming | M ³ | 54.00 |
| C00030 | Excavate trench (hand) 2.4m3/day/worker | M ³ | 93.75 |
| C001 | Trench bedding | | |
| C00110 | Bedding with material from trench | M ³ | 97.29 |
| C00120 | Bedding with material from commercial sources | M ³ | 422.29 |
| C002 | Trench backfill | | |
| C00230 | Backfill by hand | M ³ | 64.86 |
| C00240 | Backfilling from excavations compact to 90% Mod AASHTO | M ³ | 69.52 |
| · | | | |

<u>Click here to download</u> for items from a Housing, Building and Civils MasterBill.

Pricing the MasterBill

The following demonstrates the concept of MasterBills within MasterBills

Create a MasterBill for the wet rate of a TLB

| MasterBill code | Backhoe Loader:2 X D: 7-8 t: (400W) | Backhoe Loader:2 X D: 7-8 t: (40Kw) | | | | Click on the variable to in | nert it: | | |
|-----------------|---------------------------------------|-------------------------------------|----------------|---------------------|----------|-----------------------------|----------|-----------|--------|
| GP8010 | | | | , u | it: Hour | Global variable | 140 | Add, edit | |
| | | | | | | Local variable | 6 | Add, edit | |
| Code | Type Description | Unit | Rete | - Quantity termula- | | | | Quantity | Amount |
| > <u>SIIDS</u> | R Backhoe Loader 2 X D: 7-8 t Cat 426 | Hout | 230.001 | 22,259,17240,000,P0 | | | | 1,000 | 230.00 |
| 200010 | R Diesel | Liter | 16.50.10 | | | | | 10.000 | 165.00 |
| 300040 | R Operator | Hour | 40.001 | | | | | 1.000 | 40.99 |
| * | | | 0.00 | | | | | 0.000 | 0.00 |
| 15000100 | MBI cased a second | | e wan haa | | | | 12,000 | 14 AL | 435.00 |
| - 1845 - 161 | Add/edit Expand | | Production / 1 | | | | 1.00 | 1 | 435.00 |

Use the previous MasterBill item in a MasterBill item to price excavation

| MasterBill code | Excavate trench (TLB) - soft. Hand trimming | avate trench (TLB) - soft. Hand trimming | | | | | Click on the variable to in | wert it: | | |
|-----------------|---|--|-------------------|---------------------|-------|----|-----------------------------|----------|-----------|--------|
| C00020 | - 1 1 1 2 1 1 3 1 1 3 1 1 3 1 1 1 1 1 1 1 | | | | Unit: | MF | Global variable | v | Add, edit | |
| | | | | | | | Local variable | 8 | Add, edit | |
| Code | Type Description | Unit | Rote | - Quentity termula- | | | | | Quantity | Amount |
| ► 03F8010 | M Backhoe Loader 2 X D: 7-8 t (40Kw) | Hour | 435.00 1 'TLB wit | th labout to trim | | | | | 1,000 | 435.00 |
| 3F0010 | R Sector leader | Hour | 30.001 | | | | | | 1.000 | 30.00 |
| 3650030 | R Labour - casual | Hour | 25.00.3 | | | | | | 3,000 | 75.00 |
| * | 20 I | | 0.00 | | | | | | 0.000 | 0.00 |
| (Income lines) | status MBI search instatus a mouse | - 19 | AC 19879 1992 | | | | | U.S.M.Y | | 540.00 |
| P . • | Word Moc vesion Add/edil Expand Bernare Minit | | Production / 10 | | | | | 10.0 | 0 | 54.00 |

Similarily, create a MasterBill item to load and cart away

| MasterBill cod | #: Load and cart away spoil, dump | Load and cart away spoil, dump | | | | nsert it: | | |
|----------------|---|--------------------------------|--|-----------|-----------------|-----------|-----------|------------------|
| 820015 | | | | Linit: MP | Global variable | | Add, edit | |
| | | | | | Local variable | 9 | Add, edit | |
| Code | Type Description | Unit | Rate - Quantity tormula- | | | | Quantity | Anount |
| > 2010010 | M Backhoe Loader 2 X D: 7-8 t (40Kw) | Hout | 435.00.1.3/20 '30% bulking. Load 20n3/hour | | | | 0.065 | 29.27 |
| @PV120. | M Truck: Tipper: 5 m3 | Dey | 3 310.00 2*1.3/9/20 Two lippers | | | | 0.014 | 47.81 |
| 482110 | R Fee to dump spot | M ^a | 55.00 1.3 | | | | 1.300 | 71.50 |
| * | | | 0.00 | | | | 0.000 | 0.00 |
| R • • | Word MEL search Add/ edit Expand search | 1 | Production / | | | 1.00 | <u>1</u> | 147.59 147.59 |

MasterBill to backfill by hand:

| let B | ickfill by hand | | | | | | Click on the variable to insert it: | | | |
|-------|--------------------------------|---|---|---|---|---|---|---|---|----------|
| | | | | | Units | Ma | Global variable | ~ | Add, edit | |
| | | | | | | | Local variable | 4 | Add, edit | |
| Typ | e Description | Unit | Rate | Quantity torouta- | | | | | Quantity | Amount |
| 143 | R Section leader | Hour | 30.00 [Gh/Day] | | | | | | 9.000 | 270.00 |
| 101 | R Labour-canval | Hour | 25.00 [GhtDay]*3 | | | | | | 27.000 | 675.00 |
| 5 | M Plate compactor. Wacker | Day | 500.36.2 | | | | | | 2,000 | 1 000.72 |
| 4 | | | 0.00 | | | | | | 0.000 | 0.00 |
| 1000 | the second state of the second | | 10 - 2017 - 1455 | | | | | 11.000 | - | 1 945.72 |
| | search Resource Mill | | Production / 30 | | | | | 30.0 | 0 | 64.85 |
| | * CCCC 4 | Backfill by hand Type Description R Section leader R Labour - casual M Plate compactor. Wacker Wand MBL search Add/ edit Expand Wand MBL search Add/ edit Expand | Backfill by hand Type Description R Section leader R Labour - cesual M Piale compactor. Wacker Word MBL: eeach Add/ edit Expand MBL Compare Mill | Backfill by hand Jyne Description R Section leader R Section leader R Labour - ceaual Hour Section leader Ho | Backfill by hand Jype Description R Section leader R Section leader R Labour - cssual Mour Scolon leader Mour Mour Scolon leader Mour | Backfill by hand Item Init Igre Desception R Section leader Hou R Section leader Hou Sold [Sh/Day] R Labour - cesual Hou Sold [Sh/Day] N Plate compactor Wacker Day Sold S2 0.00 Word MBL reach Add/red Example Production / 30 | Backfill by hand Item: Init: M3 Init: M3 | Backfill by hand Item Intern Click on the variable Intern Intern Intern Intern Intern | Backfill by hand Item Init M ³ Global variable Click on the variable to insert it Global variable Var | |

Use previous MasterBills lower in the hierarchy to create this MasterBill.

| MasterBill code | Trench 450mm wide upto 1m deep excava | le, backfill d | ispose - 150D pipe | | | Diere: | Click on the | variable to | insert it: | | |
|-----------------|---|----------------|--------------------|-------------------|------------------|---------------------|----------------------------|-------------|------------|-----------|----------|
| C00510 | | | M. States (1954). | | | Unit: M | Global vari | able | 4 | Add, edit | |
| | | | | | | | Local varial | ale | 9 | Add, edit | |
| Code / | Type Description | Unit | Rete | - Qu | ntity termela- | | | | | Quentity | Anoun |
| > 200031 | M Excevels trench (TLB) - soft. Hand timming. | M | 54.00 [L09] | | The call Marie | ables (applies \$ | a male this it testes | Cill Hainel | ~ | 0.495 | 26.73 |
| C00230 | M Backfill by hand | h# | 64.86 [L09] - [L1 | 10[| EDCal Varia | ables (applies t | o only this waster | em nemi) | | 0.272 | 17 68 |
| 820015 | M Load and cart away spot, dump | MP | 147.59 [L10] | | Local var N | iote . | Value? formula | Value | | 0.223 | 32.87 |
| * | G | | 0.00 | | > 100 Pc | be diameter (mni) | 150 | 150.000 | | 0.000 | 0.00 |
| - 35 | | | | | L02 Pg | pe sadius (M) | jL01j/2/1000 | 0.075 | | | |
| | | | | | L03 Pc | se volume | [Gph] * [L02] * [L02] | 0.018 | | | |
| | | | | | LO4 Be | dding depth floor | 0.15 | 0.150 | | | |
| | | | | | L05 8e | dding depth over t | (0.15 | 0,150 | | | |
| | | | | | L06 W | idth of excavation | 10.45 | 0.450 | | | |
| | | | | | L07 0v | erbreak factor | 1.1 | 1,100 | | | |
| | | | | | L08 Ta | ench depth [M] | 1 | 1,000 | | | |
| | | | | | L09 E.s | cacviation volume | [L06]* [L07]* [L08] | 0.495 | 1.00 | | |
| | | | | | L10 Sp | oit Width * (select | ([r.be] - ({[r.b2] -5] + | L 0.223 | | | |
| | | | | | | | | | | | |
| 51. | Word MEL search Add/edit Expand | | Deschartion 21 | | | | | | 1.00 | | 77.26 |
| 12.5 Ka b | search 🤟 Resource MBill | | ridescool / | | | | | | 1.00 | | 11.26 |
| | | | P86 | Plant 19, 76 I | Labour 31,625 | Material Fasterie | r/Sundry I | Rpes | Roads | Subby | Prov sum |

Note the use of Local Variables. A Local Variable only applies to this MasterBill item.

In this case, variations in pipe diameter, depth and width of the excavation can be adjusted

A more complex MasterBill item: pricing a window with local and global variables:

In this example of pricing a 600 by 600 aluminium window, we use both local and global variables

Local variables are only applicable to this item

The advantage of using a local variable is that you can quickly create a new MasterBill by copying the price-make-up of a previous MasterBill and then change the values of the local variables in the new item e.g. a window of 600 by 900

Global variables values apply to the while project but can differ from project to project.

In this example, it is primarily being used to specify the type of wall finishes as it impacts on plastering, painting, lintels etcetera.

| Aluminium window 600w 600h | | | | | Liten: | 23 | Click on the variable | e to insert it: | Add add | |
|--|---|---|---|---|--|--|---|--|---|--|
| | | | | | 1, 7006 | | Local variable | | Add edit | |
| e Description | Unit | Rate | - Qua | ntity honmula- | | | | 12 | Quantity | Amount |
| R Aluminium window 600w 500h | 88 | 515.001 | | | | | | | 1.000 | 515.00 |
| Align and fis window transit to wall | 63 | 61.00 1 | | | | | | | 1.000 | 61.00 |
| A Concrete Lintel 100mm x 0.9m | Ea | 37.00 [GintClay | (' at least 1 linte | C | | | | | 1.000 | 37.00 |
| R Concrete Lintel 100mm x 0.9m | Ea | 37.00 [GHClay] | Additional Intel | i plastered outside | | | | | 1.000 | 37.00 |
| IPlaster & paint not exceeding 150mm mide vertical t | H | 36.17 2" [Lheid | ht] 'internal side | s of window | | | | | 1,200 | 43.40 |
| Plaster Spaint solfit of window opening n.e. 150mm | M | 52.62 [Lwidth] *1 | Internal sofik | | | | | | 0.600 | 31.57 |
| # Plaster & paint not exceeding 150mo wide window o | M | 30.68 (Lwidth) ' | Plaster internal + | indoe cil | | | | | 0.600 | 18.41 |
| f Internal tesazo cill | M | 135.61 (GHCA) | [Lwidth[| | | | | | 0.600 | 81.37 |
| Plaster & paint not exceeding 150mm reide vertical : | М. | 36.17 [G:Plast] | 2" [Lheight] "E) | ternal sides of window | | | | | 1.200 | 43.40 |
| A Plaster Epaint solit of window opening n.e. 150mm | H | 52.62 (GXPlant) | (Lwidh) Exten | nal softit | | | | | 0.600 | 31.57 |
| # Plaster & paint not exceeding 150mm wide window o | M | 30.68 (G+Plast) | [Lwidth] 'Plaste | external window cill | | | | | 0.600 | 18.41 |
| IPlaster external band 75mm wide around windows a | M | 40.96 [6\/8 and | W] * 12 *[]L midth |] + [Lheight]]) | | | | | 2.400 | 98.31 |
| R 1./O subby Fix curtain Mack | м | 24.75 [Lwidth] | | | | | | | 0.600 | 14.85 |
| R Curtain track-1.27m | NO | 246.241 | | | | | | | 1.000 | 246.24 |
| M Waterproof window or door along perimiter | M | 10.00 2 °(JLwd | thi + [Lheight] | | | | | | 2.400 | 24.00 |
| | | 0.00 | | | | | | | 0.000 | 0.00 |
| | | | | | | | | | | |
| Word MBL march Add/edit Expand | | Production / 1 | | | | | | 1.0 | 0 | 1 301.53 |
| | Description Align and lis window 500w 500h Align and lis window 100w 500h Align and lis window transit to wall Concrete Linkel 100mm x 0.3m Concrete Linkel 100mm x 0.3m Plaster 5 part not exceeding 150mm wide vertical is Plaster 5 part not exceeding 150mm wide window c Plaster 1 part not exceeding 1 par | Alaminar werden 500w 500h eas Alaminar werden 500w 500h eas Alaminar werden 500w 500h eas Concrete Linkel 100mm x 0.9m Ea Concrete Linkel 100mm x 0.9m Ea Concrete Linkel 100mm x 0.9m Ea Plaster Sparit not exceeding 150mm wide vertical t M Plaster Expand tastilit of window opening n.e. 150mm v M Plaster Expand tastilit of window opening n.e. 150mm v M Plaster Expand tastilit of window opening n.e. 150mm v M Plaster Expand tastilit of window opening n.e. 150mm v M Plaster Expand tastilit of window opening n.e. 150mm v M Plaster Expand tastilit of window opening n.e. 150mm v M Plaster Expand tastilit of window opening n.e. 150mm v M Custan tastilit opening n.e. 150mm v M Custan tastilit 1.27m NO Waterproof window or door along perimiter M | Description Down Down Marinism weddex 600w 500h ea 515.00 1 Align and fis window tases to wal ea 61.00 1 Concrete Lintel 100mm x 0.9m Ea 37.00 [BirRDay Concrete Lintel 100mm x 0.9m Ea 37.00 [BirRDay Plaster Spart not exceeding 150mm wide vertical 1M 36.17 2 (Line) Plaster Expant not exceeding 150mm wide vertical 1M 36.17 2 (Line) Plaster Expant not exceeding 150mm wide vertical 1M 36.17 2 (Line) Plaster Expant not exceeding 150mm wide vertical 1M 36.17 (CoPPaul) Plaster Expant not exceeding 150mm wide vertical 1M 36.17 (CoPPaul) Plaster Expant not exceeding 150mm wide vertical 1M 36.17 (CoPPaul) Plaster Expant not exceeding 150mm wide vertical 1M 36.17 (CoPPaul) Plaster Expant not exceeding 150mm wide vertical 1M 36.17 (CoPPaul) Plaster Expant not exceeding 150mm wide excluses CM 30.68 (CoPPaul) Plaster Expant not exceeding 150mm wide excluses CM 30.68 (CoPPaul) Plaster Expant not exceeding 150mm wide excluses CM 30.68 (CoPPaul) L/O tabby Fix cutam tack M 24.75 [Line) L/O tabby Fix cutam tack | Over-Structure Owner - Advance Planning: window 500w 500h ea 515.00 1 Align and is window table 50 wall ea 515.00 1 Concrete Linkel 100mm x 0.3m Ea 37.00 [GirdDay] ' at least 1 linke Concrete Linkel 100mm x 0.3m Ea 37.00 [GirdDay] ' at least 1 linke Plaster 5 part not exceeding 150mm wide vertical 1M 36.17 2 [LinegN] ' internal sole Plaster 5 part not exceeding 150mm wide vertical 1M 35.82 [LiveBN] ' internal sole Plaster 5 part not exceeding 150mm wide vertical 1M 35.82 [LiveBN] ' Plaster internal + f internal sole Plaster 5 part not exceeding 150mm wide vertical 1M 35.85 [LiveBN] ' Plaster internal + f internal sole Plaster 5 part not exceeding 150mm wide vertical 1M 35.82 [LiveBN] ' Plaster internal + f internal + f internal sole Plaster 5 part not exceeding 150mm wide vertical 1M 35.12 [LiveBN] ' LiveBN] ' Exceeding 150mm wide windew (M Plaster 1 part not exceeding 150mm wide windew (M 30.88 [[GirPlast] ' LiveBN] ' Ender Plaster 1 part not exceeding 150mm wide windew (M 30.88 [[GirPlast] ' LiveBN] ' ' ' (LiveBN] ' ' ' ' (LiveBN] ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' | Description Down Parameter - Advances Alamman weekdex 600w 600h ea \$15:00 1 Aligen and file window fame to wall ea \$15:00 1 Concrete Lintel 100mm x 0.9m Ea 37:00 [[InrOlay] ' at least 1 lintel Concrete Lintel 100mm x 0.9m Ea 37:00 [[InrOlay] ' at least 1 lintel Concrete Lintel 100mm x 0.9m Ea 37:00 [[InrOlay] ' at least 1 lintel Plaster 5 part not exceeding 150mm wide vertical (H 36:17 2 ([Lineybil] ' internal sector of window Plaster 5 part not exceeding 150mm wide vertical (H 30:88 [LivetBil] ' Plaster and window cell Plaster 5 part not exceeding 150mm wide vertical (H 30:88 [LivetBil] ' Plaster and window cell Plaster 5 part not exceeding 150mm wide vertical (H 30:88 [LivetBil] ' LivetBil] ' External and endow cell Plaster 5 part not exceeding 150mm wide vertical (H 36:17 [IordPlast]' ' LivetBil] ' External oddex of window Plaster Experit onth or window opening n.e. 150mm (H 52:82 [IordPlast]' LivetBil] ' External oddex of window cell Plaster b part not exceeding 150mm wide vertical (H 36:83 [IordPlast]' LivetBil] ' External oddex of window cell Plaster b part not exceeding 150mm wide windows (H 40:96 [IordPlast]' LivetBil] ' External oddex of window cell <t< td=""><td>Description Data Materia - Advance/ 4 Aligen and file window table 500k ea \$15,001 4 Aligen and file window table to walk ea \$15,001 Concrete Lintel 100km x 0.5m Ea 37,001 [lintClay] ' at least 1 lintel Concrete Lintel 100km x 0.5m Ea 37,001 [lintClay] ' at least 1 lintel Concrete Lintel 100km x 0.5m Ea 37,001 [lintClay] ' at least 1 lintel Concrete Lintel 100km x 0.5m Ea 37,001 [lintClay] ' at least 1 lintel Concrete Lintel 100km x 0.5m Ea 37,001 [lintClay] ' at least 1 lintel Plaster Expand soft of window opening n.e. 150km M 52,62 [Linxeth] ' Internal softs of window Plaster Expand not exceeding 150km wide vertical M 30,68 [Linxeth] ' Flaster internal vertical at the thermal softs of window cell Plaster Expand not exceeding 150km wide vertical M 36,17 [linxeth] ' Linxeth] ' External odes of window Plaster Expand not exceeding 150km wide vertical M 36,17 [linxeth] ' Linxeth] ' External odes of window Plaster Expand not exceeding 150km wide windows CM 30,68 [linxeth] ' Linxeth] ' External odes of window Plaster Expand not exceeding 150km wide windows CM 30,68 [linxeth] ' Linxeth] ' External odeth Plaster Expan</td><td>Over-thyperiod Own - Advances Planning window 500w 500h ea 515.00 1 Align and file window tasks to wall ea 515.00 1 Concrete Linkel 100mm x 0.9m Ea 37.00 [Gint/Clay] * teart 1 intel Concrete Linkel 100mm x 0.9m Ea 37.00 [Gint/Clay] * detect 1 intel Plaster 5 park not exceeding 150mm wide vertical µH 36.17 2* [Lineght] * internal vision of wide Plaster 5 park not exceeding 150mm wide vertical µH 36.17 2* [Lineght] * internal vertice Plaster 5 park not exceeding 150mm wide vertical µH 36.15 [Gint/Clay] * internal vertice Plaster 5 park not exceeding 150mm wide vertical µH 36.17 [Girt/Clay] * internal vertice Plaster 5 park not exceeding 150mm wide vertical µH 36.17 [Girt/Clay] * Lineght] * External vertical vertical Plaster 5 park not exceeding 150mm wide vertical µH 36.17 [Girt/Clay] * Lineght] * External vertice Plaster 5 park not exceeding 150mm wide vertical µH 36.17 [Girt/Clay] * Lineght] * External vertice vertical vertical Plaster 1 park not exceeding 150mm wide vertical µH 36.17 [Girt/Clay] * Lineght] * External vertice vertical Plaster baset park not exceeding 150mm wide werdice c H 30.88 [Girt/Plast*] Exceedin* 2 vertical vertice Plaster baset</td><td>Overageboor Other View - Advantage Note- # Alarminian weedlow E000+ ea \$15.001 # Algen and file weedlow tases to walk ea \$15.001 # Concrete Lintel 100mm x 0.9n Ea 37.00 [[Int/Day] ' at least 1 lintel © Concrete Lintel 100mm x 0.9n Ea 37.00 [[Int/Day] ' at least 1 lintel © Concrete Lintel 100mm x 0.9n Ea 37.00 [[Int/Day] ' at least 1 lintel © Concrete Lintel 100mm x 0.9n Ea 37.00 [[Int/Day] ' at least 1 lintel © Concrete Lintel 100mm x 0.9n Ea 37.00 [[Int/Day] ' at least 1 lintel Plaster Expand Lintel (Internet Internet Int</td><td>Description Date Date Date Date Alarman, wedder 600w 600h ea 515.00 1 <t< td=""><td>Overageboor One Note - Adverting Adverting Adverting Adverting Overage - Adverting - Adveverting - Adverting <</td></t<></td></t<> | Description Data Materia - Advance/ 4 Aligen and file window table 500k ea \$15,001 4 Aligen and file window table to walk ea \$15,001 Concrete Lintel 100km x 0.5m Ea 37,001 [lintClay] ' at least 1 lintel Concrete Lintel 100km x 0.5m Ea 37,001 [lintClay] ' at least 1 lintel Concrete Lintel 100km x 0.5m Ea 37,001 [lintClay] ' at least 1 lintel Concrete Lintel 100km x 0.5m Ea 37,001 [lintClay] ' at least 1 lintel Concrete Lintel 100km x 0.5m Ea 37,001 [lintClay] ' at least 1 lintel Plaster Expand soft of window opening n.e. 150km M 52,62 [Linxeth] ' Internal softs of window Plaster Expand not exceeding 150km wide vertical M 30,68 [Linxeth] ' Flaster internal vertical at the thermal softs of window cell Plaster Expand not exceeding 150km wide vertical M 36,17 [linxeth] ' Linxeth] ' External odes of window Plaster Expand not exceeding 150km wide vertical M 36,17 [linxeth] ' Linxeth] ' External odes of window Plaster Expand not exceeding 150km wide windows CM 30,68 [linxeth] ' Linxeth] ' External odes of window Plaster Expand not exceeding 150km wide windows CM 30,68 [linxeth] ' Linxeth] ' External odeth Plaster Expan | Over-thyperiod Own - Advances Planning window 500w 500h ea 515.00 1 Align and file window tasks to wall ea 515.00 1 Concrete Linkel 100mm x 0.9m Ea 37.00 [Gint/Clay] * teart 1 intel Concrete Linkel 100mm x 0.9m Ea 37.00 [Gint/Clay] * detect 1 intel Plaster 5 park not exceeding 150mm wide vertical µH 36.17 2* [Lineght] * internal vision of wide Plaster 5 park not exceeding 150mm wide vertical µH 36.17 2* [Lineght] * internal vertice Plaster 5 park not exceeding 150mm wide vertical µH 36.15 [Gint/Clay] * internal vertice Plaster 5 park not exceeding 150mm wide vertical µH 36.17 [Girt/Clay] * internal vertice Plaster 5 park not exceeding 150mm wide vertical µH 36.17 [Girt/Clay] * Lineght] * External vertical vertical Plaster 5 park not exceeding 150mm wide vertical µH 36.17 [Girt/Clay] * Lineght] * External vertice Plaster 5 park not exceeding 150mm wide vertical µH 36.17 [Girt/Clay] * Lineght] * External vertice vertical vertical Plaster 1 park not exceeding 150mm wide vertical µH 36.17 [Girt/Clay] * Lineght] * External vertice vertical Plaster baset park not exceeding 150mm wide werdice c H 30.88 [Girt/Plast*] Exceedin* 2 vertical vertice Plaster baset | Overageboor Other View - Advantage Note- # Alarminian weedlow E000+ ea \$15.001 # Algen and file weedlow tases to walk ea \$15.001 # Concrete Lintel 100mm x 0.9n Ea 37.00 [[Int/Day] ' at least 1 lintel © Concrete Lintel 100mm x 0.9n Ea 37.00 [[Int/Day] ' at least 1 lintel © Concrete Lintel 100mm x 0.9n Ea 37.00 [[Int/Day] ' at least 1 lintel © Concrete Lintel 100mm x 0.9n Ea 37.00 [[Int/Day] ' at least 1 lintel © Concrete Lintel 100mm x 0.9n Ea 37.00 [[Int/Day] ' at least 1 lintel Plaster Expand Lintel (Internet Internet Int | Description Date Date Date Date Alarman, wedder 600w 600h ea 515.00 1 <t< td=""><td>Overageboor One Note - Adverting Adverting Adverting Adverting Overage - Adverting - Adveverting - Adverting <</td></t<> | Overageboor One Note - Adverting Adverting Adverting Adverting Overage - Adverting - Adveverting - Adverting < |

| | Global va | r. Note | Value/ formula | Value |
|---|-----------|------------------------|----------------|---------------|
| ► | GHrDay | Work hour per day | 9 | 9.000 |
| | GXClay | 1 Ext Claybrick 0 no | 1 | 1.000 |
| | GXFBS | 1 Ext FS 0 no | 0 | 0.000 |
| | GXMaxi | 1 Ext Maxi 0 no | 0 | 0.000 |
| | GXBlock | 1 Ext block 0 no | 0 | 0.000 |
| | GXBag | 1 Ext bagging 0 no | 0 | 0.000 |
| | GXPlast | 1 Ext plaster 0 | 1 | 1.000 |
| | GXBandW | 1 Band window 0 | 1 | 1.000 |
| | GIntClay | 1 Int clay | 1 | 1.000 |
| | GIntMaxi | 1 Int Maxi | 0 | 0.000 |
| | GIntBag | 1 Internal bagging | 0 | 0.000 |
| | GIntPlast | 1 Internal plaster | 1 | 1.000 |
| | GIntCill | 1 Internal Cill | 1 | 1.000 |
| | GXCill | 1 External cill BOE | 1 | 1.000 |
| | GSMix | 1 Site mix | 1 | 1.000 |
| | GValPrj | Value of project | 0 | 0.000 |
| | Gfoam | Foam walling | 0 | 0.000 |
| | GValCon | Rather use local varia | 0 | 0.000 |
| | Gphi | Phi | 22/7 | 3.143 |
| _ | Gvp | Value project | 1000000 | 1 000 000.000 |

🖪 Local Variables (applies to only this MasterBill Item)

| | Local var Note | Value/ formula | Value |
|---|----------------|----------------------|-------|
| | Lwidth | 0.600 | 0.600 |
| | Lheight | 0.600 | 0.600 |
| | Larea | [Lwidth] * [Lheight] | 0.360 |
| * | L | 0 | 0.000 |

Importing the Bill of Quantities

Import the Bill of Quantities from a file such as Excell or WinQs If you import from Excel, match the columns in the Excel sheet with the fields in the Bill

A Add records File 🛱 Add, edit, report 💷 Allowable BoQ P Plug rate E Export all Copy price range Home M Apply MasterBill MasterBill Calculate V Variance Close Records Import from Resources Project P0003 Civil (roadworks) X Note: If you import an Excel or a CSV Import a Project from a file text file, set the order of the headings if it differs from the default Civil (roadworks) If a column does not exist in the source 1. Select file you wish to Import :. document, delete it (blank field).Numeric data must be formatted C:\Users\Ernst Marais\Desktop_EJM derr as text. 2. File type: 4 Excel and text files 2.00 3.00 Bill Txt WinQs Field Col 500 Column (A-Z) Excel 1: P&G Sequence A 2: Plant Page В 3: Labour Item number 4: Material D Pay reference 5: Fastener/Sundry Description E 6: Pipes F Unit 7: Roads Quantity G 8: Subby H Sell rate 9: Prov sum Total cost rate 1. Go ahead!

Pricing the Bill of Quantities using the MasterBill

In the combo box, MCopy, select and click on the MasterBill item that is the closest to the target BoQ item. The rate buildup will now be copied to the item. By double-click on the cost rate, you can change the rate build up without affecting the MasterBill or any other item

| | A Add records Copy price range M Apply MasterBill Records Project Menu | | Image: Control of the second seco | Bill ■ | Add, e Plug ra Calcul | ate E Export allow ate V Variance Resources | Create | Create R @Range Copy to C @CostCentr W Search MasterBill Markup | | | 0 Q R |
|----|--|--|--|----------------|-----------------------------|---|-----------------------------|--|----------------|-----------|-------|
| -0 | Project Mer | | MCmu | Ject 0003 C | IVII (roa | adworks) | | | Linit | DillOter | |
| | 39.00 | B34.01 | мсру - | NCOPY + | 2 | Pavement lavers constru | cription cted from grave | taken from | Unit + | Dilicity | * |
| - | 40.00 | 001.01 | C43060 | | = 5 | (a) Fill (unstabilized grave | el) compacted to | o: (i) 93% of | m ^s | 10 00 | 0.00 |
| _ | 41.00 | | C43060 | 42.00 | 5 | (b) Gravel Selected C4 (s | tabilized materi | al) compacted | m ^s | 2 50 | 0.00 |
| - | 42.00 | | Y0R210 | | 5 | (d) Gravel Subbase C4 (S | Stabilized mater | ial) compacted | ms | 2 00 | 0.00 |
| 8 | 43.00 | | Y0R310~ | 42.00 | 5 | (f) Gravel base C3 (Stabil | lized material) c | ompacted to: | m ^s | 1 50 | 0.00 |
| | 44.00 | 34.10 | MBLCode | ShortE |)escr | | <u>1</u> + | | Unit | TotalCost | |
| - | 45.00 | | Y0R310 | Crushe | er run | 150mm G2 grader team | | | M ^s | 745.88 | |
| | 46.00 | 34 11 | Y0R315 | Crushe | er run | by hand 100mm G2 | | | M ^s | 806.57 | |
| | 47.00 | 0.00 34.11 Y0R320 Crusher run by hand 100mm G4 00 B34.14 Y0R320 Crusher run by hand 100mm G4 | | M ^s | 555.68 | | | | | | |
| - | 47.00 | 004.14 | YUR325 | Crushe | er run | by hand 150mm G2 | | | IVI* | /96.5/ | |

Pricing from plan – prompt list approach

With this approach, you enter the basic dimensions and parameters of the house such as foundation length, wall height, type of walls, number and type of windows and doors etcetera.

Based on this the nett wall area is calculated.

It then goes through a list of prompts to select on a high level what goes into the building

There are two type of prompt items:

1. Independent items

These are items such as windows, doors, light fittings. They are not dependent on other items but can have an influence on other (dependent) items such as wall area

| C | las: - | Promp + | Prompt descr | iption + | Τ. | Unit - | Rate - | Displace ex | ternal w | all area • | Promptin | nemo | - | Displace |
|----|--------|---------|------------------------------|--|------------------|------------------------|-------------------------|----------------|----------------------|--------------------|--------------------------|------|---|----------|
| C | 3 | c3200 | Aluminium windows 600mm wide | e | С | | 0.00 | | | 0.00 | | | | |
| 6 | 3 | c3210 | Aluminium window 600w 600h | | c | ea | 52950170443 | | | 0.36 | | | | |
| 0 | 3 | c3220 | Aluminium window 600w 900h | The second stress | | and the second second | | | | | | ~ 1 | | |
| c | 3 | c3230 | Aluminium window 600w 1200h | Car erompetern | | | | | | | | | | |
| ci | 1 | c3240 | Aluminium window 600w 1500h | Prompt kens c3210 Alum | irik.nj | window 6 | 00w 680h | | | | | | | |
| 0 | 3 | c3250 | Aluminium window 600w 1800h | Memo: | | | | | | | | | | |
| c | 3 | c3300 | Aluminium windows 900mm wid | Type: C Vanitation - no vane | le spi | cilled - | 100 | Detail qua | why I | 1 Unit | 100 | | | |
| c | 1 | c3310 | Aluminium window 900w 500h | Displace external wall area | 0.3 | 6 Displ | ace internal Hall ar | ea 0.00 | Rate: | 1 301.53 | 10.000 - 00.00 | | | |
| 6 | 3 | £3320 | Aluminium window 900w 900h | System Variables: 6. Exte | enal e | vali area | 12. Wall he | ght. | 18 - inter | nel excavation | 24. Internal wall length | | | |
| c | 1 | 13330 | Aluminium window 900w 1200h | 2. House m2 8. Bala | nai we nce e | st area steerial w/ | a 14 Internal | found area | 20. Bal n | ent floor area | | | | |
| 23 | 5 | c3340 | Aluminium window 900w 1500h | 3. Stand minus house m2 9. Bala | nce in | itemal w/ | 15 Balance | est found area | 21. Beam | fill length | | | | |
| C | 3 | c3350 | Aluminium window 900w 1800h | External wall/ found m 10.8al Internal wall/ found m 11. He | ance I aht to | ficor area. Ticcr | 16 Balance 17 Net in | ont found area | 22 Bable 23 2 Box | length al aitch | | | | |
| c | 1 | c3400 | Aluminium windows 1200mm wit | MRI Code Description | | | lini | Pate | Dis | Amount Note | | | | |
| 1 | 1 | c3410 | Aluminium window 1200w 600h | b 030210 Akminum window | 600w | 5005 | 88 | 1301.53 | 1 | 1301.53 | | | | |
| 63 | 3 | c3420 | Aluminium window 1200w 960h | * × | - | | | 0.00 | 1 | 0.00 | | - 10 | | |

frm_MBLPricePrompt

| 03 | 0210 Aluminium window 600w 600h | | 65 | Item | | Global v | ar. Note | Value |
|---------|---|------|--|----------|--------|-----------|----------------------|-------|
| Code | Type Description | Unit | Rate - Quantity tonnula- | Quantity | Amount | ▶ GHtD ay | Wark hour per day | 8 |
| > SERIE | R Aluminium window 600w 600h | ea | 515.001 | 1.000 | 615.00 | GNClay | 1 Ext Claybrick 0 no | 1 |
| 000010 | M Align and fix window frame to wall | 60 | 61.001 | 1.000 | 61.00 | 60FBS | 1 Ext.FS 0 no | 0 |
| 401010 | R Concrete Lintel 100mm x 0.9m | Ea | 37.00 [SintClay] ' at least 1 lintel | 1.000 | 37.00 | GMan | 1 Est Maii 0 no- | 0 |
| 401010 | R Concrete Lintel 100mm x 0.9m | Ea | 37.00 [GXElay] 'Additional lintel if plastered outside | 1.000 | 37.00 | EStRingh | 1 Ext Nock 0 on | Ô. |
| 130050 | M Plaster & paint not exceeding 150mm wide vertic | M=k | 36.17 2" [Lheight] ' internal sides of window | 1.200 | 43.40 | CAR an | 1 Ext basense () est | 0 |
| 140840 | M Plaster Spaint soffit of window opening n.e. 150m | nsM. | 52.62 (Lwidth) 1 Internal softit | 0.600 | 31.57 | CLIPI- I | 1 Extragging ono | 0 |
| 140030 | M Plaster & paint not exceeding 150mm wide window | Mow | 30.68 [Lwidth] ' Plaster internal window cill | 0.600 | 18.41 | 62091411 | i Ext plaster U | 1 |
| 690170 | M Internal terazo cill | M | 135.61 (GintCill * [Lwidth] | 0.600 | 81.37 | 6×B andv | 1 Band window 0 | 1 |

This is an example of an independent item (600*600 aluminium window) that will have an influence on the external wall area (displaces 0.36 M2 external wall). It does not use any system variables. It triggers MasterBill O30210

2. Dependant items

| Prompt ite | em: | q1010 | 3 | 230mm brick v | vall in super p | lastered & pair | nted both side | s | | | | |
|---|---|---------------|--|---|--|--|--|--|---|------|-------------|----------------|
| Memo: | | 1 | | | | | | | | | | |
| Туре: | V | Variable [E | Balano | ce external w | 'a | ~ | Default qua | ntity: [| Ő | Unit | M2 | |
| Displace (| exterr | nal wall area | | 0.00 | Displace inte | ernal wall area | 0.00 | Rate: | 717.52 | | | |
| System V 1. Stand r 2. House 3. Stand 4. Extern 5. Interna | System Variables: System Variables: Stand m2 House m2 Stand minus house m2 External wall/ found m MBL Code Descript | | 6. 7. I 8. E 9. E 10. 11. | External wall a nternal wall a Balance extern Balance intern Balance floor Height to floor | area ea nalw/a alw/a :area vr | 12. Wall heigh 13. External fo 14. Internal fou 15. Balance es 16. Balance in 17. Nett import | t und area und area xt found area t found area ted fill | 18 int 19. Net 20. Bal. 21. Bea 22. Gab 23. % R | ernal excavation tt floor area . nett floor area amfill length ble length Roof pitch | | 24. Interna | il wall length |
| MBL | Code | Descript | tion | | | Unit | Rate | Qty | Amount | Note | | |
| ▶ G4311 | 0 ~ | One clayb | brick v | vall in super s | tructure incl v | vi M* | 427.02 | 1 | 427.02 | | | 10 |
| 130020 |) ~ | 18mm inte | ernal p | plaster to verti | cal brick surfa | B(M* | 89.41 | 1 | 89.41 | | | 1. |
| 140010 |) ~ | 18mm ext | ternal | plaster to vert | ical brick surf | a Mª | 96.18 | 1 | 96.18 | | | 1. |
| R1002 | 20 🗸 | Undercoa | at and | 2 coats pva | on external pl | a Mª | 55.84 | 1 | 55.84 | | | 1 |
| R2002 | 20 🗸 | Undercoa | at and | 2 coats pva | on internal pla | as Mª | 49.08 | 1 | 49.08 | | | 10 |
| * | ~ | 1 | | | | | 0.00 | 1 | 0.00 | | | 1 |
| | | | | | | Ta | ital: | | 717.52 | | | |

The quantity depends on the calculated wall area from the basic dimensions minus external openings (variable 8) It also triggers MasterBill items to build, plaster and paint the wall

Using the prompt list

You can take off your quantities on this take-off sheet and then enter it into the program

Basic dimensions

| Extended description of proj | ect | | Global Variat | oles | | |
|----------------------------------|-------------------|--------------|----------------------|--------------------------|---------------------|------------------------|
| MBBM design clau bricks, plaster | ed and nainted in | side and | Global va | r. Note | Value/ formula | Value |
| outside | ed and painted in | | ▶ GHrDay | Work hour per day | 9 | 9.000 |
| | | | GXClay | 1 Ext Claybrick 0 no | 1 | 1.000 |
| | | | G×FBS | 1 Ext FS 0 no | 0 | 0.000 |
| | | | GXMaxi | 1 Ext Maxi 0 no | 0 | 0.000 |
| | | | GXBlock | 1 Ext block 0 no | 0 | 0.000 |
| | | | GXBag | 1 Ext bagging 0 no | 0 | 0.000 |
| | | | GXPlast | 1 Ext plaster 0 | 1 | 1.000 |
| | | | GXBandW | 1 Band window 0 | 1 | 1.000 |
| | | | GintClay | 1 Int clay | 1 | 1.000 |
| | | | GIntMaxi | 1 Int Maxi | 0 | 0.000 |
| itand area: | 450.00 | Total stand | d area used for sit | e clearing calculation. | | |
| Beamfill length | 58.05 | The total le | enght of the exter | nal walls on which the | rafters rest. | |
| Gable length | 0.00 | The total le | enght of the wall i | ncluding the triangular | portion between int | ersecting roof pitches |
| louse area | 140.93 | (0.5 * Bear | nfill_length x Gabl | le_length) Adjust if not | : square | |
| xternal foundation (m) | 58.05 | Beamfill len | ght + Gable lengh | nt | | |
| nternal foundation (m) | 32.45 | Total lengt | nt of internal found | dations | | |
| nternal wall length | 32.45 | Defaults to | Internal foundation | on measurement | | |
| nternar Han length | 0.15 | Height from | n top of foundatio | n to finished floor leve | d. | |
| Average height to floor | | Height of u | vall from floor leve | l to under roof. | | |
| Vall height | 2.85 | THOIGHT OF V | | | | |
| Verage height to floor | 2.85 25.00 | Enter 30 fc | or 30% roof pitch. | | | |

Select independent prompt items

These items do not depend on other items but might have an Independant prompt items influence on dependant prompt items (e.g. windows displacing walls.) Select prompt class: 63 ~ Desc c3 Prompt Code Aluminium windows Unit Quantity ~ External steel door & frame с4 √ Clean ^{c5} External timber door in steel frame Day 1.000 Ь2030 External timber door in timber frame Clear c6 P3080 Panel 10.000 External aluminium door Ь3110 ✓ Brick c8 M2 50.000 Garage doors 🗸 Alumij c9 External openings c3540 ea 6.000 Alumii d1 Internal steel door & frame ea 2.000 c3420 Internal timber door in steel frame

Select dependant prompt items

| Dependant | prompt items | The sele | ese items might depen ected (e.g. windows di | d on the indepe splacing wall a | endant item previ reas) | ously | Once you have selected the dependant |
|-----------------------------------|--|--------------|---|------------------------------------|-------------------------------------|--------|---|
| Select prompt class: | | Reset c | alculated variables | | | | |
| System Variables | : 6. Ext w/am2 | 0.00 | 12. Wall height m 13. Ext fnd m2 | 0.00 | 18: -con int fn r 19: Net fir m2 | n3 | |
| 2.House m2 3: (1) · (2) m2 | 0.00 8. Bal ext w m2 0.00 9. Bal int w m2 | 0.00 | 14. Int fnd m2 15. Bal ext fnd m2 | 0.00 | 20. Bal net flr m 21. Beamfill m | 2 | Click on Create to create a Bill of Quantitie |
| 4. Ext. found m 5. Int.found m | 0.00 10. Bal floor m2 0.00 11. Height to floo | 0.00 0.00 | 16. Bal int fnd m2 17. Nett fill m3 | 0.00 | 22. Gable m 23. % pitch rool | | according to the MasterBill items that we |
| Ext. openings | 0.00 Int. openings | 0.00 | | | 24. Int wall m | | triggered |
| Prompt Code De | escription | | | Unit | Quantity [|)epend | |
| n1010 🔍 Excav | ate 600x150mm thickened ec | ge, concret | e, rebar | М | 58.050 | 4 | |
| p1010 🧹 Allow | for imported fill u/surface bed | 200mm thick | < | M2 | 10.000 | 17 | |
| p2040 🔍 85mm | concrete surface bed, ant po | isen, USB, r | nesh, float | M2 | 124.592 | 19 | |
| p2060 🔍 Thick | ening of slab under internal wa | ills 400w 25 | 0d | М | 32.450 | 5 | |
| p3020 🔍 Ceram | ic floor tiles on adhesive | | | M2 | 124.592 | 20 | |
| q1010 🔍 230mi | m brick wall in super plastered | & painted b | oth sides | M2 | 136.189 | 8 | |
| View take-off | Masterbill items selected | Cr | eate 🛛 📢 | | | | |

Analysing the Bill of Quantities

Allowables 0001

Once you have priced the BoQ, click on Calculate to display the resources used. You can edit the rates as they apply to the project and then click Update to update all the calculations based on these rates.

| Upda Upda Upda | ate Su ate Su ate Su | ippliers | Bill quantit Resou | Cum y quantity rce usage | to Main Library Write back | Insert Global values Utilities | | | | | |
|----------------------|----------------------------|-----------|--------------------------|--------------------------------|----------------------------------|--------------------------------------|--------|---------------|--------------|--------|-----------|
| >> | Pro | ject Menu | E E | stimate for I | Project 0001 H | House MRBM 140m | 2 | Resources use | d in Project | | |
| | 2.5 - | Cod | e +1 | | Desci | ription | ÷ | Quantity - | PackSize + | Unit 🗸 | Rate 🚽 |
| | 3D | 3D0020 | | Steelfixer | ÷ | -1/2-2-11-11-5 | | 27.15 | 1 | Hour | 40.00 |
| | 3D | 3D0060 | | Bricklayer | ricklayer | | | | 1 | Hour | 50.00 |
| | 3F | 3F0010 | | Section le | ader | | | 20.86 | 1 | Hour | 40.00 |
| | 3F | 3F0020 | | Semi-skill | ed | | | 1314.27 | 1 | Hour | 40.00 |
| | 3G | 3G0000 | | Unskilled | | | | 19.05 | 1 | Hour | 25.00 |
| | 3G | 3G0010 | 6 | Unskilled | - hour | | | 146.90 | 1 | Hour | 25.00 |
| | 3G | 3G0020 | | General V | Vorker | | | 90.27 | 1 | Hour | 30.00 |
| | 3G | 3G0030 | ñ | Labour - c | asual | | | 91.38 | 1 | Hour | 25.00 |
| | 4A | 4A0050 | | Reinforce: | High Tensi | le Bars: Y12 (0.8 | 9Kg/m) | 0.81 | 1 | Ton | 13 250.00 |

House MRBM 140m2

| | Resor | urce | Unit | Quantity | BaseRate | Factor Rate | FactorAmount |
|---|------------|---|---------------------------|----------|-----------|--------------|--------------|
| 1 | Mater | rial | | | Re | npid priced: | 0.00 |
| | 4.A00 50 | Reinforce: High Tensile Bars: Y12 (0.89Kg/m) 6.5m length | Ton | 0.8 | 13 250.00 | 13 250.00 | 10 781.74 |
| | 4A1010 | Brickforce 75 x 2.8mm | 20m | 4.1 | 45.00 | 45.00 | 182.77 |
| | 4A1020 | Brickforce 150 x 2.8mm | ROLL | 75 | 50.00 | 50.00 | 374.52 |
| | 4A2060 | Ref 193 Reinforce Mesh 2.4 x 6m | Sheet | 10.0 | 368.00 | 368.00 | 3 661.63 |
| | 4A3110 | 4mm galv. wire - 5kg roll | ROL | 0.3 | 110.00 | 110.00 | 36.30 |
| | 4A3120 | Binding Wire | Kg | 6.2 | 20.00 | 20.00 | 123.99 |
| | 4 A | Reinforcing | | | | | 15 160.95 |
| | 4B2100 | Imported filling | M | 2.6 | 316.00 | 316.00 | 821.60 |
| | 4B3010 | Building sand | M³ | 11.1 | 146.25 | 146.25 | 1 616.46 |
| | 4B3030 | River Sand | M³ | 17.4 | 455.00 | 455.00 | 7 905.80 |
| | 4B3070 | Plaster Sand | $\mathbf{M}^{\mathbf{s}}$ | 14.8 | 445.00 | 445.00 | 6 594.42 |
| | 4B4040 | Concrete Stone 19mm | M³ | 18.2 | 295.00 | 295.00 | 5 365.14 |
| | 4B | Aggregates | | | | | 22 303.42 |
| | 4C1010 | Concrete Lintel 100mm x 0.9m | Ea | 4.0 | 3 7.00 | 37,00 | 148.00 |
| | 4C1020 | Concrete Lintel 100mm x 1.2m | Ea | 8.0 | 39.00 | 39.00 | 312.00 |
| | 4C1030 | Concrete Lintel 100mm x 1.5m | Ea | 7.0 | 41.00 | 41.00 | 287.00 |
| | 4C1040 | Concrete Lintel 100mm x 1.8m | Ea | 14.0 | 75.00 | 75.00 | 1 050.00 |
| | 4C1060 | Concrete Lintel 100mm x 2.4m | Ea | 4.0 | 9.6.00 | 96.00 | 384.00 |
| | 4C6040 | 150*150*22mm terrazo cill | NO | 88.2 | 11.25 | 11.25 | 992.25 |
| | 4C | Prefab elements | | | | | 3 173.25 |
| | 4D1050 | Non-Facing Plaster Brick Standard (NFP) | 1000 | 20.7 | 1 95 0.00 | 1 950.00 | 40 320.12 |
| | 4D | Bricks & blocks | | | | | 40 320.12 |



| | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 |
|------|-------|-------|---|------|---------|----------|----------|-------|-----|-------|--------|----------|----------|------|
| Seq. | Pge | Iten | 1 Description | Unit | BillQty | SellRate | CostRate | M/Up | ₽&G | Plant | Labour | Material | Fastener | Pipe |
| 25.0 | Secti | n1010 | SCBF High Tensile Bars: Y12mm | Ton | 0.77 | 18356.88 | 15962.50 | 15.0% | | | 1890.0 | 14072.5 | | |
| 26.0 | Secti | q1100 | 4mm dia wire roof te blt into brickwork 1600mm long | NO | 3.00 | 17.36 | 15.10 | 15.0% | | | 3.0 | 12.1 | | |
| 8.0 | Secti | p2040 | Power floated finish. | Mª | 124.59 | 22.69 | 19.73 | 15.0% | | 3.8 | 12.0 | | 3.9 | |
| 9.0 | Secti | n1010 | 20M Pa/1 9mm concrete in footing, cast against excavated surface | M* | 19.68 | 1887.18 | 1641.03 | 15.0% | | 174.9 | 259.1 | 622.9 | 584.1 | |
| 0.0 | Secti | p2040 | 250 Micron Waterproofing Sheeting under Floors | M* | 124.59 | 13.58 | 11.80 | 15.0% | | | 1.7 | 10.1 | | |
| 2.0 | Secti | r1010 | Half daybrick wall in super- structure | Mª | 73.84 | 246.80 | 214.61 | 15.0% | | 2.0 | 88.8 | 112.5 | 11.3 | |
| 3.0 | Secti | h5050 | Brick on edge wall in sides to bath | Mª | 1.21 | 442.16 | 384.48 | 15.0% | | 2.1 | 259.4 | 111.0 | 11.9 | |
| 4.0 | Secti | q1010 | One daybrick wall in super structure in d wire tes | Mª | 136.19 | 491.08 | 427.02 | 15.0% | | 4.1 | 177.6 | 222.8 | 22.6 | |

Rate breakdown

| Item Description | Unit | Qty | CostRate | Rate*Qty | P&G | Plant | Labour | Materialister | er/Sundry | Pipes | Roads | Subby | Prov sum |
|--|-------|----------|-----------|-----------|-----------|---------|----------|---------------|-----------|-------|-------|-------|----------|
| q1010 One claybrick wall in super structure incl wire ties | M² | 136.2 | 427.02 | 58 156 | | 4 | 178 | 223 | 23 | | | | |
| p3020 Ceramic floor tiles on adhesive Type 1 | M² | 124.6 | 388.65 | 45 931 | | | | 224 | | | | 145 | |
| a2010 Contractor's supervision | Mont | 3.0 | 14 345.00 | 43 035 | | 3 745 | 10 600 | | | | | | |
| n1010 20MPa/19mm concrete in footing cast against excavated surface | 9, M³ | 19.7 | 1 641.03 | 32 300 | | 175 | 259 | 623 | 584 | | | | |
| m101 Provisional sum by client for buil in cupboards | t Sum | 1.0 | 30 000.00 | 30 000 | | | | | | | | | 30 000 |
| c3540 Aluminium window 1500w 1500h | ea | 6.0 | 4 752.54 | 28 515 | | 7 | 752 | 3 902 | 54 | | | 37 | |
| h5050 18mm internal plaster to vertical brick surfaces | M² | 285.4 | 89.41 | 25 516 | | 3 | 56 | 15 | 16 | | | | |
| Sorts the BoQ from th | e mo | st to th | ne least | expensive | e item. 1 | he 80:2 | 20 princ | iple usu | ally app | lies. | | | |

0001 House MRBM 140m2

EMININ Stratom a (Dtr) I td

| Item | Description | Unit | Quantity | Selling | ł |
|------|---|-------|-------------------------|----------|----------|
| | 25 | | 0.66 X086 A. | Rate | Amount |
| | CARPENTRY AND JOINE RY | | | | |
| 2010 | 19*75mm sa pine skirting | М | 122.95 | 56.78 | 6 981.1 |
| | ROOFING | | | | |
| 3039 | Rooffiles ludlow std complete | M^2 | 180.00 | 153.72 | 27 669.6 |
| 3039 | Taper ridge std/gramlar | м | 64.00 | 198.17 | 12 682.8 |
| 3039 | Roof truss type 20 26 deg 8.1m span | NO | 10.00 | 1 901.88 | 19 018.8 |
| 4010 | 114*38 s a pine 4.2-6.6m | м | 55.00 | 50.39 | 2 771.4 |
| 3039 | 38*38mm batten @ 320mm c/c to receive concrete tiles | M^2 | 180.00 | 75.01 | 13 501.8 |
| 3039 | Fibre cement facia 150*12 | м | 55.00 | 164.52 | 9 048.6 |
| | CEILINGS AND PARTITIONS | | | | |
| 1010 | 38*38mm sa pine brandering @ 450mm c/c in 1 direction | M^2 | 124.59 | 70.38 | 8 768.8 |
| 1010 | 6.4mm gypsumboard ceiling fixed to branders & h/strp | M^2 | 124.59 | 234.02 | 29 157.1 |
| 1110 | 600x600mm metal ceiling trap door | NO | 1.00 | 535.61 | 535.6 |
| 1040 | 75mm gypsum coved cornice | M | 122.95 | 100.43 | 12 347.8 |
| 1100 | 50mm fibreglass insulation | M^2 | 140.93 | 83.58 | 11 779.1 |

| Page | Item | Description | Unit | Quantity | | Rates | 8 | Amoun |
|--------|-------|--|-------|----------|-----------|----------|-----------|----------|
| | | 69 69 | | | Supply | Install | Total | |
| | | FORMWORK & MOVE MENT JOINTS | | | | | | |
| Sectio | n1010 | Formwork to edge of slabs 300mm high | M² | 29.0 | 138.35 | 159.39 | 297.74 | 8 641.9 |
| | | REINFORCEMENT | | | | | | |
| Sectio | p2040 | Type reference 193 | M^2 | 124.6 | 33.80 | 6.61 | 40.41 | 5 034.7 |
| Sectio | n1010 | SCBF High Tensile Bars: Y12mm | Ton | 0.8 | 16 183.37 | 2 173.50 | 18 356.87 | 14 225.9 |
| Sectio | q1100 | 4mm dia wire roof tie blt into brickwork 1600mm long | NO | 3.0 | 13.92 | 3.45 | 17.37 | 52.1 |
| | | CONCRETE & WATERPROOFING | | | | | | |
| Sectio | p2040 | Power floated finish. | M² | 124.6 | 8.89 | 13.80 | 22.69 | 2 827.0 |
| Sectio | n1010 | 20MPa/19mm concrete in footing, cast against excavated surface | MP | 19.7 | 1 589.19 | 297.99 | 1 887.18 | 37 145.0 |
| Sectio | p2040 | 250 Micron Waterproofing Sheeting under Floors | M^2 | 124.6 | 11.56 | 2.01 | 13.57 | 1 690.7 |

Create a quote from the Estimate

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| | he manufacture of the | Com | pany data | | | | Company | (| My Huisbouers | | |
| Project num | aber 0001 | | Postal Code | 6200 | | | Address | 1 | Wonderboomsingel | | |
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| roject Nan | House MH | BM 140m2 | Responsible Person | Ernst IV | arais | | Address | 3 | Jeffreysbaai | | |
| ompany ni | ame EMWIN Sy | /stems (Pty) L | Phone Number | 042 296 | 1494 | | Contact | person | Deon Rathbone | | |
| ddress Lin | e1 Dr BB Kee | t 36 | E_Mail | ernst@ | emwin | 1.co.za | Phone | | 072 76 5983 | | |
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| ltom | Description | | | | | 11-3 | Bato | Ouantitu | Amount | | |
| | FABTHWORKS | | | | | Unit | 0.00 | | | | |
| n1010 | Excavate in soft for | strip footing, use | as backfill. Trim excavation | 1 | | M ³ | 156.89 | 6.847 | 1 074.23 | | |
| p1010 | 150 mm G7 selecter | d layer compacted | to 93% Mos AASHTO (Min | n CBR 15%) | | M ³ | 512.11 | 2.000 | 1 024.22 | | |
| | FORMWORK & MO | VEMENT JOINTS | | | | | 0.00 | 0.000 | 0.00 | | |
| n1010 | Formwork to edge of | if slabs 300mm hig | h | | | M ² | 297.74 | 29.025 | 8 641.90 | | |
| -2040 | REINFURCEMENT | 2 | | | | k.d2 | 0.00 | 124 592 | 5.024.70 | | |
| n1010 | SCBF High Tensile | Bars: Y12mm | | | | Ton | 18 356 88 | 0.775 | 14 225 99 | | |
| q1100 | 4mm dia wire roof tie | e blt into brickwork | . 1600mm long | | | NO | 17.36 | 3.000 | 52.08 | | |
| | CONCRETE & WAT | ERPROOFING | | | | | 0.00 | 0.000 | 0.00 | | |
| | Einish of | ff | | | | | iub total: | | 71 717.20 | | |
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| <i>Item</i> n1010 p1010 n1010 p2040 n1010 q1100 p2040 n1010 | Noorsekii Jeffreysb 6300 Quote Phone: Fax: E-mail: REFEREND DATE Description EARTHWORK Excavate in so 150 mm G7 se CBR 15%) FORMWORK Formwork to ex REINFORCEN Type reference SCBF High Te 4mm dia wire r CONCRETE & Power floated 20MP a/19mm | et 36 pof aai 042 296 1494 emst@em win.co. CE Emst M 25-Mrt S ft for strip footing elected layer comp & MOVEMENT JC dge of slabs 300n IENT e 193 nsile Bars: Y12mi pof tie blt into brid WATE RPROOFI finish. concrete in footin | De My Wo Va Jef VA za arais 20 , use as backfill. Trim exc pacted to 93% Mos AASH DINTS nm high m ckwork 1600mm long ING g, cast against excavated | eon Rathbo y Huisboue onderboor avecrest ffreysbaai AT registrat lephone:: cavation TO (Min | one ers nsinge ion num <i>Onit</i> M ³ M ² M ² Ton NO M ² M ² | l 94 aber: 353 072 <i>Quantit</i> , 6.83 2.00 29.03 124.55 0.77 3.00 124.55 19.63 19.63 | 21298651 276 5983 2 76 5983 2 156.89 0 512.11 2 297.74 9 40.41 7 18 356.88 0 17.36 9 22.69 8 1 887.18 | Amor 1 074. 1 024. 8 641. 5 034. 14 225. 5 2. 2 827. 37 145. | unt 23 22 90 78 99 08 00 03 | | |
| <i>Item</i> n1010 p1010 n1010 p2040 n1010 q1100 p2040 n1010 p2040 | Noorsekii Jeffreysb 6300 Quote Phone: G Fax: E-mail: REFEREND DATE DATE DATE DATE DATE DATE DATE DAT | et 36 pof aai 042 296 1494 emst@em win.co. CE Emst M 25-Mrt: S ft for strip footing dected layer comp & MOVEMENT JC dge of slabs 300n IENT e 193 nsile Bars: Y12mi pof tie bit into bric WATE RPROOFI finish. concrete in footin uterproofing Shee | De My Wo Va Jef VA Za arais 20 a, use as backfill. Trim exc pacted to 93% Mos AASH DINTS nm high m ckwork 1600mm long ING g, cast against excavated ting under Floors | eon Rathbo y Huisboue onderboor avecrest ffreysbaai AT registrat lephone:: Z cavation TO (Min | one ers msinge ion num / <i>mit</i> M ³ M ² M ² Ton NO M ² M ² M ² | 1 94 aber: 352 072 Quantity 6.83 2.00 29.02 124.55 0.77 3.00 124.55 19.68 124.55 19.68 124.55 | 21298651 276 5983 7 Rate 5 156.89 5 1512.11 2 297.74 9 40.41 7 18 356.88 9 17.36 9 22.69 3 1 887.18 9 13.58 | Amoi 1 074. 1 024. 8 641. 5 034. 14 225. 5 2 827. 37 145. 37 145. 1 691. | Int 23 22 90 78 99 08 00 03 97 | | |
| Item n1010 p1010 n1010 p2040 n1010 p2040 n1010 p2040 | Noorsekii Jeffreysb 6300 Quote Phone: G Fax: E-mail: REFEREND DATE Description EARTHWORK Excavate in so 150 mm G7 se CBR 15%) FORMWORK G Formwork to ei REINFORCEN Type reference SCBF High Te 4mm dia wire in CONCRETE & Power floated 1 20MP a/19mm 250 Micron Wa | et 36 pof aai 042 296 1494 emst@em win.co. CE Em st M 25-Mrt: S ft for strip footing dected layer comp & MOVEMENT JC dge of slabs 300n IENT e 193 nsile Bars: Y12mi pof tie bit into brid WATE RPROOFI finish. concrete in footin aterproofing Shee | De My Wa Jef VA Jef VA Tel 20 0, use as backfill. Trim exc pacted to 93% Mos AASH DINTS nm high m ckwork 1600mm long ING g, cast against excavated ting under Floors | eon Rathby / Huisboue onderboor avecrest ffreysbaai AT registrat lephone:: / cavation TO (Min | one ers msinge ion num <i>Onit</i> M ³ M ² M ² Ton NO M ² M ² UD to | I 94 ber: 352 072 Quantity 6.85 2.00 29.02 124.55 124.55 124.55 124.55 124.55 124.55 | Rate Rate Rate S 156.89 S 156.89 S 156.89 S 12.11 Q 297.74 Q 40.41 T 18 356.88 D 17.36 Q 22.69 S 1 887.18 Q 13.58 Q 13.58 | Amon 1 074. 1 024. 8 641. 5 034. 14 225. 5 2 827. 37 145. 1 691. 1 717.2 | mt 23 22 90 78 99 08 00 03 97 20 | | |
| Item n1010 p1010 n1010 p2040 n1010 p2040 n1010 p2040 | Noorsekii Jeffreysb 6300 Quote Phone: Fax: E-mail: REFEREND DATE Description EARTHWORK Excavate in so 150 mm G7 se CBR 15%) FORMWORK Formwork to ex REINFORCEN Type reference SCBF High Te 4mm dia wire r CONCRETE & Power floated 20MP a/19mm 250 Micron Wa | et 36 pof aai 042 296 1494 emst@em win.co. CE Emst M 25-Mrt3 S ft for strip footing elected layer comp & MOVEMENT JC dge of slabs 300m IENT e 193 nsile Bars: Y12mi pof tie bit into brid WATE RPROOFI finish. concrete in footin iterproofing Shee | De My Wo Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Tel Base as backfill. Trim exc bacted to 93% Mos AASH DINTS nm high m ckwork 1600mm long ING g, cast against excavated ting under Floors | eon Rathby y Huisboue onderboor avecrest ffreysbaai AT registrat lephone:: cavation TO (Min TO (Min | one ers nsinge ion num <i>Onit</i> M ³ M ² M ² Ton NO M ² M ² ub to AT: | I 94 ber: 352 072 Quantity 6.84 2.00 29.02 124.54 0.77 3.00 124.54 19.64 124.55 19.64 124.55 | 21298651 276 5983 7 Rate 5 156.89 5 512.11 2 297.74 9 40.41 7 18 356.88 0 17.36 9 22.69 3 1 887.18 9 13.58 7 | Amor 1 074. 1 024. 8 641. 5 034. 14 225. 5 034. 14 225. 5 2. 2 827. 37 145. 1 691. 1 717.2 10 757. | unt 23 22 90 78 99 08 00 03 97 20 | | |
| Item n1010 p1010 n1010 p2040 n1010 p2040 n1010 p2040 | Noorsekii Jeffreysb 6300 Quote Phone: Fax: E-mail: REFEREND DATE Description EARTHWORK Excavate in so 150 mm G7 se CBR 15%) FORMWORK 4 Formwork to ei REINFORCEN Type reference SCBF High Te 4mm dia wire in CONCRETE & Power floated 20MP a/19mm 250 Micron Wa | et 36 pof aai 042 296 1494 emst@em win.co. CE Em st M 25-Mrt/ S ft for strip footing lected layer comp ected layer comp & MOVEMENT JC dge of slabs 300m TENT e 193 nsile Bars: Y12mi oof tie bit into brid WATE RPROOFI finish. concrete in footin aterproofing Shee | De My Wo UMA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA Jef VA G Solution Soluti | eon Rathby y Huisboue onderboor avecrest ffreysbaai AT registrat lephone:: 2 cavation TO (Min TO (Min | one ers nsinge ion num //nit M ³ M ³ M ² M ² Ton NO M ² M ² M ² M ² Ton NO | I 94 aber: 352 072 <i>Quantity</i> 6.89 2.00 29.02 124.59 1 | 21298651 276 5983 2 156.89 3 156.89 3 156.89 3 156.89 40.41 7 18 356.88 0 17.36 9 22.69 3 1 887.18 9 13.58 9 13.58 9 7 8 | <i>Amor</i> 1 074. 1 024. 8 641. 5 034. 14 225. 5 2. 2 827. 37 145. 1 691. 1 717.2 10 757.3 | mt 23 22 90 78 99 08 00 03 97 20 58 78 | | |

Variance reports

This compares the Allowables from the Estimate/ Certificate interface to the actuals from the Accounting system

Variance Report for Project 0001 Allowables based on Cumulatives quantity

House MRBM 140m2

From Major category: 4 to: 4

Cost transactions from 2000-01-01 to 2020-05-06

| | | | 22 | Allowable | 10 | <u>95</u> | Actual | 27 - 2 <u>7</u> | Varianc | e |
|------------------|----------------------------------|---------|-----------|-----------|-----------|-----------|-----------|------------------|----------|-----------|
| | | | Quantity | Rate | Amount | Quantity | Rate | Amount | Quantity | Amoun |
| Mat | terial | | Rapid pri | ced: | 0.00 | | | | | Ð |
| 4A0050 | Reinforce: High Tensile Bars: Y1 | 2 Ton | 0.8 | 13 250.00 | 10 781.74 | 1.0 | 13 250.00 | 13 250.00 | -0.2 | -2 468.26 |
| 4A1010 | Brickforce 75 x 2.8mm | 20m | 4.1 | 45.00 | 182.77 | 4.0 | 45.00 | 180.00 | 0.1 | 2.77 |
| 4A1020 | Brickforce 150 x 2.8mm | ROLL | 7.5 | 50.00 | 374.52 | 8.0 | 50.00 | 400.00 | -0.5 | -25.48 |
| 4A2060 | Ref 193 Reinforce Mesh 2.4 x 6n | n Sheet | 10.0 | 368.00 | 3 661.63 | 10.0 | 368.00 | 3 680.00 | | -18.37 |
| 4A3120 | Binding Wire | Kg | 6.2 | 20.00 | 123.99 | 6.0 | 20.00 | 120.00 | 0.2 | 3.99 |
| <u>Total for</u> | 4A Reinforcing | | | | 15 124.65 | | | <u>17 630.00</u> | | -2 505.35 |
| 4B2100 | Imported filling | M 3 | 3.9 | 316.00 | 1 232.40 | 4.0 | 316.00 | 1 264.00 | -0.1 | -31.60 |
| 4B3010 | Building sand | M 3 | 11.0 | 146.25 | 1 611.93 | 12.0 | 146.25 | 1 755.00 | -1.0 | -143.07 |
| 4B3030 | River Sand | M 3 | 17.3 | 455.00 | 7 851.38 | 17.0 | 455.00 | 7 735.00 | 0.3 | 116.38 |
| 4B3070 | Plaster Sand | M 3 | 14.8 | 445.00 | 6 590.32 | | | | 14.8 | 6 590.32 |
| 4B4040 | Concrete Stone 19mm | M 3 | 18.2 | 295.00 | 5 365.14 | 19.0 | 295.00 | 5 605.00 | -0.8 | -239.86 |
| Total for | <u>4B</u> <u>Aggregates</u> | | | | 22 651.18 | | | 16 359.00 | | 6 292.18 |
| 4C1010 | Concrete Lintel 100mm x 0.9m | Ea | 4.0 | 37.00 | 148.00 | 4.0 | 37.00 | 148.00 | | |
| 4C1020 | Concrete Lintel 100mm x 1.2m | Ea | 8.0 | 39.00 | 312.00 | 8.0 | 39.00 | 312.00 | | |
| 4C1030 | Concrete Lintel 100mm x 1.5m | Ea | 7.0 | 41.00 | 287.00 | 7.0 | 41.00 | 287.00 | | |
| 4C1040 | Concrete Lintel 100mm x 1.8m | Ea | 14.0 | 75.00 | 1 050.00 | 14.0 | 75.00 | 1 050.00 | | |
| 4C1060 | Concrete Lintel 100mm x 2.4m | Ea | 4.0 | 96.00 | 384.00 | 4.0 | 96.00 | 384.00 | | |
| 4C6040 | 150*150*22mm terrazo cill | NO | 88.2 | 11.25 | 992.25 | 88.0 | 11.25 | 990.00 | 0.2 | 2.25 |
| Total for | 4C Prefab elements | | | | 3 173.25 | | | 3 171.00 | | 2.25 |

Cost centre Variance for project 0001

House MRBM 140m2

Allowables based on Cumulative quantity

Cost transactions from 2000-01-01 to 2020-05-06

| Description | Allowable | Cost ledger | Variance | %Act/All% | Var/All |
|------------------|--|--|--|---|---|
| PRELIMINARY & G | 65 541.10 | 58 354.43 | 7 186.67 | 89.0 | 11.0 |
| SITE & DEMOLITIO | 1 401.82 | 799.92 | 601.90 | 57.1 | 42.9 |
| EARTHWORKS | 5 522.43 | 17 432.86 | -11910.43 | 315.7 | -215.7 |
| FORMWORK & JOI | 7 514.58 | 0.00 | 7 514.58 | 0.0 | 100.0 |
| REINFORCEMENT | 16 748 46 | 18 140.80 | -1392.34 | 108.3 | -8.3 |
| CONCRETE & WAT | 36 229.08 | 42 980.80 | -6751.72 | 118.6 | -18.6 |
| BRICKWORK | 97 403 59 | 85 410.79 | 11 992.80 | 87.7 | 12.3 |
| PLASTERING | 40 289.62 | 21 708.00 | 18 581.62 | 53.9 | 46.1 |
| CARPENTRY AND | 0.00 | 2 499.75 | -2 499.75 | | |
| ROOFING | 73 645.77 | 136 579.31 | -62 933.54 | 185.5 | -85.5 |
| WINDOWS AND D | 55 106.22 | 39 534.38 | 15571.84 | 71.7 | 28.3 |
| PAINTING, PAPER | 0.00 | 9 0 15.82 | -9015.82 | | |
| Total: | 399 402.66 | 432 456.86 | -33 054.20 | 108.3 | -8.3 |
| | PRELIMINARY & G SITE & DEMOLITIO EARTHWORKS FORMWORK & JOI REINFORCEMENT CONCRETE & WAT BRICKWORK PLASTERING CARPENTRY AND ROOFING WINDOWS AND D PAINTING, PAPER Total: | PRELIMINARY & G 65 541.10 SITE & DEMOLITIO 1 401.82 EARTHWORKS 5 522.43 FORMWORK & JOI 7 514.58 REINFORCEMENT 16 748.46 CONCRETE & WAT 36 229.08 BRICKWORK 97 403.59 PLASTERING 40 289.62 CARPENTRY AND 0.00 ROOFING 73 645.77 WINDOWS AND D 55 106.22 PAINTING, PAPER 0.00 Total: 399 402.66 | PRELIMINARY & G 655 541.10 58 354.43 SITE & DEMOLITIO 1 401.82 799.92 EARTHWORKS 5 522.43 17 432.86 FORMWORK & JOI 7 514.58 0.00 REINFORCEMENT 16 748.46 18 140.80 CONCRETE & WAT 36 229.08 42 980.80 BRICKWORK 97 403.59 85 410.79 PLASTERING 40 289.62 21 708.00 CARPENTRY AND 0.00 2 499.75 ROOFING 73 645.77 136 579.31 WINDOWS AND D 55 106.22 39 534.38 PAINTING, PAPER 0.00 9 015.82 Total: 399 402.66 432 456.86 | PRELIMINARY & G 65 541.10 58 354.43 7 186.67 SITE & DEMOLITIO 1 401.82 799.92 601.90 EARTHWORKS 5 522.43 17 432.86 -11 910.43 FORMWORK & JOI 7 514.58 0.00 7 514.58 REINFORCEMENT 16 748.46 18 140.80 -1 392.34 CONCRETE & WAT 36 229.08 42 980.80 -6 751.72 BRICKWORK 97 403.59 85 410.79 11 992.80 PLASTERING 40 289.62 21 708.00 18 581.62 CARPENTRY AND 0.00 2 499.75 -2 499.75 ROOFING 73 645.77 136 579.31 -62 933.54 WINDOWS AND D 55 106.22 39 534.38 15 571.84 PAINTING, PAPER 0.00 9 015.82 -9 015.82 Total: 399 402.66 432 456.86 -33 054.20 | PRELIMINARY & G 65 541.10 58 354.43 7 186.67 89.0 SITE & DEMOLITIO 1 401.82 799.92 601.90 57.1 EARTHWORKS 5 522.43 17 432.86 -11 910.43 315.7 FORMWORK & JOI 7 514.58 0.00 7 514.58 0.0 REINF ORCEMENT 16 748.46 18 140.80 -1 392.34 108.3 CONCRETE & WAT 36 229.08 42 980.80 -6 751.72 118.6 BRICKWORK 97 403.59 85 410.79 11 992.80 87.7 PLASTERING 40 289.62 21 708.00 18 581.62 53.9 CARPENTRY AND 0.00 2 499.75 -2 499.75 -2 499.75 ROOFING 73 645.77 136 579.31 -62 933.54 185.5 WINDOWS AND D 55 106.22 39 534.38 15 571.84 71.7 PAINTING, PAPER 0.00 9 015.82 -9 015.82 -9 015.82 Total: 399 402.66 432 456.86 -33 054.20 108.3 |

Subcontractor overview

Subcontractor evaluation

This is used when two or more subcontractors gives competitive bids for certain parts of the project. It evaluates the bids, taking into account that not all subcontractors quoted on the same items.

| Home Close | Edit Sa Edit Edit Edit Project | Edit Milestone ¹ Print materials I Issue to Subby Package Edit allowables Print checklist Approval Package Register house R register Subby Progress R rates Mass Housing: Subby measure Subby Evaluation oject Menu Subcontractors for Project 0001 Stoor | | | | | | | | | | | |
|---------------|--|---|-----|--------|-----------------------|---------------------------------|--------|------|----------|-------|----------|------------|----------|
| | Seq. | Jump | Lvl | ltem | [| Description | Clause | Unit | BillQty | CstCn | SellRate | SubbyPack | CostRate |
| | 1.00 | | 1 | | Warehouse | | | | | EXC | | | |
| | 2.00 | | 2 | Bill 1 | Earthworks | | | | | EXC | | Earthworks | |
| | 3.00 | | 5 | 1.1 | Clear site from vege | tation, rubbish, shrub, roots e | | M2 | 5 000.00 | EXC | 2.65 | Earthworks | 2.00 |
| | 4.00 | | 5 | 1.2 | Excavate in earth in | bulk not exceeding 2M deep | | M3 | 1 500.00 | EXC | 45.08 | Earthworks | 40.00 |
| | 7.00 | | 5 | 1.5 | Extra over excavatio | on in rock (compressor) | | M3 | 100.00 | EXC | 227.18 | Earthworks | |
| | 8.00 | | 5 | 1.6 | Earth fill from excav | ation and compacted to 95% | | M3 | 800.00 | BFILL | 36.74 | Earthworks | 0.07 |
| | 9.00 | | 2 | Bill2 | Concrete & reinforci | ng | | | | CONC | | Conc subby | |
| | 10.00 | | 3 | 2.1 | Mass concrete | | | | | CONC | | Conc subby | |
| | 12.00 | | 5 | 2.1.2 | 20MPA Concrete in | blinding layer under bases. | | M3 | 5.00 | CONC | 1 092.40 | Conc subby | 1 080.73 |
| | 13.00 | | 5 | 2.1.3 | 20MPA Concrete in : | surface trenches | | M3 | 56.00 | CONC | 1 092.40 | Conc subby | 975.36 |

| Creditors & Subcon | Create and edit subby pac select | kages | | |
|----------------------|---|-------------|-----------------|-----------|
| 3 Wrme Earthworks | Package: 1 Earthworks | | Resource | 4B002 🗸 |
| 1 Manny's Concrete | Package | | Rate must | be 1 |
| 4 Maritz Civils | Nr. Subcontractor number and name | Factor | Sum to spread | Add/ Edit |
| 2 Moolman Grondwerke | 1. 2 v Moolman Grondwerke | 1.00 | 0.00 | Resource |
| * (New) | 2. 3 v Acme Earthworks | 1.00 | 0.00 | Add/ Edit |
| | 3. 4 🗸 Maritz Civils | 1.00 | 10 000.00 | Subby's |
| Register the Subby's | Create Subby packages and link the Subb | y's that wi | ll submit rates | |

| Edit N | Ailestone Ilowables ter house Mass Aenu | Pr Pr Re Housi | int materi int check egister Sul ng: Subby ontractors | ials I Issue to list V Approv oby H Progres measure | o Subby val Package Fal Assign ss R Rates Subby Evaluation | | | | | | |
|--------|---|-------------------------|---|--|--|--------|------|---------|-------------------------|---|----------------|
| Seq. | Jump | Lvl | ltem | | Description | Clause | Unit | BillQty | CstCn | SellRate | SubbyPack |
| 1.00 | | 1 | 1 | Warehouse r | | | - | | EXC | | |
| 2.00 | | 2 | Bill 1 | Earthworks | frm_SubbyPackagesAssign | | | | EXC | | Earthworks |
| 3.00 | | 5 | 1.1 | Clear site fro | 0.1.1.3 | | | 5 000.0 | 0 EXC | 2.65 | Earthworks |
| 4.00 | | 5 | 1.2 | Excavate in | Select item range: | | - | 1 500.0 | 0 EXC | 45.08 | Earthworks |
| 7.00 | | 5 | 1.5 | Extra over e | From item: 2.00 To item: | 300 | | 100.0 | 0 EXC | 227 18 | Earthworks |
| 8.00 | | 5 | 1.6 | Earth fill fro | Assign to subby package: | 2.00 | 2 | Bill 1 | Warehouse Farthworks | | works |
| 9.00 | | 2 | Bill2 | Concrete & | Farthworks | 3.00 | 3 | 1.1 | Clear site from | m vegetation, rubb | ish, shrusubby |
| 10.00 | | 3 | 2.1 | Mass concr | | 4.00 | 4 | 1.2 | Excavate in | earth in bulk not e: reavation in rock l | ceeding |
| 12.00 | | 5 | 2.1.2 | 20MPA Con | N A | 8.00 | 6 | 1.6 | Earth fill from | excavation and c | compact subby |
| Assign | the iter | ms in | the B | oQ to the S | Subby packages | | | | | | |



Request to quote on package 1 Earthworks

EMWIN Systems (Pty) Ltd

Project

Discount to apply on quoted rates:

uoted rates: Establishment costs:

Note: Write the rates against items with quantities; 0 against items included elsewhere; NQ if not quoting on an item

Important: please fill in the following:

Subcontractor name:

Contact name and number:

| Item | Description | Unit | Quantity | Rate | Amount |
|--------|--|--|---|---|--|
| Bill 1 | Earthworks | 0 | | 2 | |
| 1.1 | Clear site from vegetation, rubbish, shrub, roots etcetera | M2 | 5 000.0 | | |
| 1.2 | Excavate in earth in bulk not exceeding 2M deep | M3 | 1 500.0 | 52 | * |
| 1.5 | Extra over excavation in rock (compressor) | M3 | 100.0 | ŝ | |
| 1.6 | Earth fill from excavation and compacted to 95% MOD-AASHO | M3 | 800.0 | 2.2 | |
| | Item Bill 1 1.1 1.2 1.5 1.6 | Item Description Bill 1 Earthworks 1.1 Clear site from vegetation, rubbish, shrub, roots etcetera 1.2 Excavate in earth in bulk not exceeding 2M deep 1.5 Extra over excavation in rock (compressor) 1.6 Earth fill from excavation and compacted to 95% MOD-AASHO | Item Description Unit Bill 1 Earthworks 1.1 Clear site from vegetation, rubbish, shrub, roots etcetera M2 1.2 Excavate in earth in bulk not exceeding 2M deep M3 1.5 Extra over excavation in rock (compressor) M3 1.6 Earth fill from excavation and compacted to 95% M3 | Item Description Unit Quantity Bill 1 Earthworks 11 Clear site from vegetation, rubbish, shrub, roots etcetera M2 5 000.0 1.1 Clear site from vegetation, rubbish, shrub, roots etcetera M2 5 000.0 1.2 Excavate in earth in bulk not exceeding 2M deep M3 1 500.0 1.5 Extra over excavation in rock (compressor) M3 100.0 1.6 Earth fill from excavation and compacted to 95% M3 800.0 | Item Description Unit Quantity Rate Bill 1 Earthworks 1.1 Clear site from vegetation, rubbish, shrub, roots etcetera M2 5 000.0 1.2 Excavate in earth in bulk not exceeding 2M deep M3 1 500.0 1.5 Extra over excavation in rock (compressor) M3 100.0 1.6 Earth fill from excavation and compacted to 95% M3 800.0 |

| C re Subcont | Quote Cor equest qu tractor wor | mpare Select notes subby rk packag evaluation | age | Subcontrac | tor rates for packa | ge Earthworks | |
|--------------------|---------------------------------------|--|--------|------------|---------------------|---------------|-----------------|
| Levi - | Item - | Description - | Ur - | Quantity - | Moolman Gi 🝷 | Acme Earth | Maritz Civils • |
| 2 | Bill 1 | Earthworks | | | | | |
| 5 | 1.1 | Clear site from vegetation, rubbish, shrub, roots etcetera | M2 | 5 000.0 | 2 | 2.1 | 2.15 |
| 5 | 1.2 | Excavate in earth in bulk not exceeding 2M deep | M3 | 1 500.0 | 40 | 34 | 33 |
| 5 | 1.5 | Extra over excavation in rock (compressor) | M3 | 100.0 | 0 | 190 | 205 |
| | | | 12.022 | | | | 22 |

| Cor | mpar | e Subby's for package: | 1 | Earthw | orks | The program will now compare quotes, taking into account items |
|------|--------|---|----------------------|--------------------|---------------|---|
| Page | item | Description | Moolman Grondwerk | Acme Earthworks | Maritz Civils | not prices (use highest of other Subby's rates) and lump sums that |
| 1 | Bill 1 | Earthworks | | | | needs to spread. |
| 1 | 1.1 | Clear site from vegetation, rubbish, shrub, | 10000 | 10 500 | 11 755 | |
| 1 | 1.2 | Excavate in earth in bulk not exceeding 2M | 60 000 | 51 000 | 54 120 | In the next step, the successful subby is selected and its rates are |
| 1 | 1.5 | Extra over excavation in rock (compressor) | | 19 000 | 22 413 | entered as the cost rates in the |
| 1 | 1.6 | Earth fill from excavation and compacted to | 26400 | 24 000 | 28 864 | BoQ |
| | | Total: | 96 400 | 104 500 | 117 152 | |

Recording Subcontractor's progress through milestones in Mass Housing projects

| Edit Milestone and | it' | s Check List | | | This system is used in mass housing (RDP) projects to keep track of subcontractor's progress. These |
|--|------|-------------------------|---|------------------|---|
| Milestone: 1 Slab | | | | | are for projects of usually 100 or more housing |
| | | SLAB CHECK LIST | | | units The work is usually done by labour-only subcontractors |
| CONTRACTOR: | | | | | Every housing unit consist of a number of |
| 1. SOIL CLASSIFICATION (FROM | 1 GE | OTECH) | | , | milestones. The subby gets issued with the material associated with the milestone |
| The soil classification of the site. | 1 | Slab | ~ | | Every milestone has an associated specification |
| A BRO TESTS | 2 | Walls | ~ | , | and a checklist |
| Entire platform is cut and have be | 3 | Roof trusses & cover | h | \triangleright | Once a milestone has been reached and has been |
| DPC test report attached. | 4 | Beam filling | | | signed off by the main contractor and the client's |
| | 5 | Plaster | | | agent, the main and subcontractor is eligible for |
| 3. DPM Plastic under floors is continuous | 6 | Paint | - | | payment |
| | 7 | Apron | | | . , |
| 4. SHUTTERS | 8 | Ceilings | | | |
| The shutters are level and square | 9 | Doors & locks | | | |
| | 10 | Electrical | | | |
| All reinforcing installed as per En | 11 | Facia & bargeboards | | | |
| Minimum 50mm cover to all reinfo | 12 | Gutters & rainwater tar | | | |
| Development best best best best best | 13 | Windows finishing | | | |
| (date) | 14 | VIP Toilet | | | |
| | 15 | | | | |
| | 16 | | - | | |
| 🐶 🕨 🤞 Select: | | | | | |

| :a | It ivilles | το | nes and default allowables | | |
|----|------------|----|----------------------------|------|-----------|
| | 1 Slab | | | | |
| | Code | | Description | Unit | Allowable |
| • | OPCBulk | ~ | OPC CEMENT-BULK | 50Kg | 10.00 |
| | CrushSand | ~ | Crusher sand | M3 | 2.00 |
| | Stone | ~ | 19MM CRUSHED STONE | TON | 3.00 |
| * | | ~ | | | |

Most Milestones have a material component. For L/O subby's, the material will be issued from a site store

| Regis | ter and | d edit a | house | | | | | | | | |
|----------|-----------|---------------|------------|-----------------------|-----------|--------|--------|---------|----------|---------|------|
| ID House | iD number | : beneficiary | Sumame | FirstName | Түре | Stand | Status | Subsidy | PH8_Date | Remarks | Fini |
| 1 1 | | 803140166085 | NDULUMA | FREDA THEDORA | Box Shape | 580314 | | | | | |
| 2 | 2 2 | 110210218082 | TYUTU | KULI MAUREEN | Box Shape | 211021 | | | 11 | | - |
| 3 | 3 21 | 812010321087 | NYEDI | LAYLIWE | Box Shape | 281201 | | | | | |
| 4 | 1 33 | 506210306083 | VUMAZONKE | NOKULULEKILE VICTORIA | Box Shape | 350621 | | | | | |
| 5 | 5 4 | 005040545084 | NOYALIVANA | LULAMA | Box Shape | 400504 | | | | | |

| Mater | ials Issue | : Slab | | | | | Woensdag, 06 M | ei 2020 | | 09:45:21 | | |
|---------------|--------------|-----------|--------------|-------|-----------|----------|----------------|---------|---|----------|-----------|-----------|
| Subcor | ntractor: | | | | | | | 18 | | | | |
| D House I | D number | Surname | Surname | Sta | ndNo | HouseT | Remarks | | | | | |
| 1 | 580314016608 | 5 NDULUMA | FREDA THEDOR | A 580 | 0314 | Box Sha | | | , | | | |
| Code | Description | | 7 | Unit | Allowable | Nr issue | d Extra | Reason | | To whom | Signature | Issued by |
| OPCBulk | OPC CEMENT | F-BULK | | 50Kg | 10.0 | | ~ | | | | | |
| CrushSa nd | Crusher sand | | | M3 | 2.0 | 2 | | | | | | |
| Stone | 19MM CRUS | HED STONE | | TON | 3.0 | | | | | | | |

| 100 C Contractor | | The second states | and the second second | CONTRACTOR OF THE OWNER | No. of Concession, Name | NAME OF TAXABLE AND ADDRESS OF TAXABLE ADDRESS OF T | CHARGE AND A | - Maria | 100 T | and the second second | We Heating and | The state to show the | elunacione. |
|------------------|-------------------------------|--------------------------------|-----------------------|-------------------------|-------------------------|--|--------------|--------------------------|-------|-----------------------|----------------|-----------------------------------|-------------|
| -IDMOUSE | iD_unmper | Standino + | 5180 | · Walls | - noor musses | nesu unnul + | Plaster | Namt | | wbiou = | Censular | DDOCS_TOCKS + | Electricat |
| 1 | 5803140166085 | 580314 | | 2 | 0 | | | | | | | | |
| 2 | 2110210218082 | 211021 | | | | | | | | | | | |
| з | 2812010321087 | 281201 | 2 | | | | | | | | | | |
| 4 | 3506210306083 | 350621 | | | | | | | | | | | |
| 5 | 4005040545084 | 400504 | | | | | | | | | | | |
| 6 | 5909090427086 | 427086 | | | 0 | | | | | | | | |
| 7 | 4207160176084 | 420716 | | | | | | | | | | | |
| 8 | 4112120166086 | 411212 | | 0 | | | 17 | D | | | | 10 | |

Recording milestones reached

Subby Progress

| ibbγ | EJM Account Mile | estone | House ID | Stand |
|----------------------|------------------|--------|----------|--------|
| 2 Moolman Grondwerke | 1001004 | | | |
| | 1 | Slab | 3 | 281201 |
| | 1 | Slab | 2 | 211021 |
| | 1 | Slab | 1 | 580314 |

| Number of houses at | Milestones | Woensdag, 06 Mei 2020 10:41:29 |
|---------------------|----------------|-----------------------------------|
| Milestone | Number reached | |
| 1 Slab | 3 | |
| 2 Walls | 1 | |
| | | |

Scheduling and cashflow overview



| | From | BoQ | To | BoQ | Link | to Barl | Percent | Bar description |
|----|-------|-----|-------|-----|------|---------|---------|------------------------|
| | 3.00 | ~ | 9.00 | ~ | 1 | ~ | 100.00 | Fixed costs |
| | 10.00 | ~ | 12.00 | ~ | 2 | ~ | 100.00 | Time related costs |
| Ĩ. | 14.00 | ~ | 14.00 | ~ | 5 | ~ | 100.00 | Set out house |
| 1 | 15.00 | ~ | 20.00 | ~ | 6 | ~ | 100.00 | Foundation excavation |
| | 22.00 | ~ | 26.00 | ~ | 8 | V | 100.00 | Foundation concrete |
| | 28.00 | v | 30.00 | ~ | 8 | × | 100.00 | Foundation concrete |

| \triangleright | Link | the | Bill | to | the | Schedu | le |
|------------------|-------|-----|------|----|-----|--------|----|
| - | LIIIK | uie | DIII | ιυ | the | Scheuu | ie |

A Bill of Quantity item can be allocated to more than one Bar. (e.g. concrete in slabs will be casted in three stages).



Certificate overview

With the Certificate you can certify the amount of work already done on the project by quantity, % or worksheet

- The Certificate system is interlinked with the Estimating system. Once you have created the Bill (either by importing or typing it), you can do a Certificate.
- There is a facility to do your measurements on screen by double-clicking on Cumulative Quantity. You can also use various in-built functions. Refer to the screen.
- > You can also enter as a percentage completed per item or over a range of items or per work group / cost centre.
- > The system also allows for variable retention, Materials on Site, Escalation and a cover page.
- Because of the link to the Estimate, one can print a report of Allowables based on the month or cumulative progress. There is also a provision for an internal quantity, should the actual progress differ from the claimed quantity.

| Progre totals Totals | 55 | Materials MOS | Initial settings | oups t | V Variables B Bill C Cumulativ Re-calculat | l F re e quar | internal Final titles | R. 10 10 | Retention rules Certificate Create cover pa Reports | ge Prep for r Close | are lew gde | | | | |
|----------------------------|-------|------------------|---|-----------|---|------------------------|-----------------------------|-----------------|--|---|-------------------|--------|--------------------------|---|-----------------------|
| Sect 4 | . Det | Pr. item | Description | | Fac + Cost + | Ur + | BillQtv | | SellRate | Cum% + | CumOty + | Firs + | FinalEstOt + | PrevCumQty - | ManthQty - |
| 31.0 | 2 | Secti | BRICKWORK | | G | 199357 | | - | | 100000000000000000000000000000000000000 | | П | - Province and the first | 2. (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2 | Constitues and A long |
| 32.0 | 5 | Secti r1010 | Half claybrick wall in super-structure | | G | M ⁴ | 7 | 3.8 | 246.80 | 100.00 | 73.845 | | 73.8 | 36 922 | 36 922 |
| 33.0 | 5 | Secti h5050 | Brick on edge wall in sides to bath | | G | M ^a | | 12 | 442.16 | | | Ē | 1.2 | 2 | |
| 34.0 | 5 | Secti q1010 | One claybrick wall in super structure inc | l wire | G | Mª | 13 | 36.2 | 491.06 | 100.00 | 136.189 | | 136.2 | 68.094 | 68.094 |
| 35.0 | 5 | Secti q1060 | One claybrick wall in beam- fill exe 250 | mm | G | M | 5 | 58.0 | 203.12 | 100.00 | 499992370605 | | 58.0 |) | 58.050 |
| 36.0 | 5 | Secti b3110 | Ground preparation for paving | 1.2423 | | 1.21 | 128-11 | - | | | | | 1 | | 50.000 |
| 37.0 | б | Secti b3110 | Brick pavers on 50mm riversand on | Cumu | ulative Quantity | calcut | ation | | | | | | | | 50.000 |
| 38.0 | 2 | Secti | PLASTERING | One | claybrick wall a | t bean | - fill exe 2 | 150m | im n/e 300mm | h | | | | | |
| 39.0 | 5 | Secti h5050 | 18mm internal plaster to vertical brick | Biled | quantity | 58.0 | 50 M | | | 11 Calenciario 1 | | | | | 285.389 |
| 40.0 | 5 | Secti q1010 | 1 18mm external plaster to vertical brick | Instel | to a multi bae upo | insted b | y line calcula | aled : Enter | seperately and the The only charac | m added tern that will | be . | | | | 153.604 |
| 41.0 | 2 | Secti | CARPENTRY AND JOINERY | used | in the evaluation a | ue num | bers 0 to 9, a | opera | ators + - /*, brad | kets () and | Functio | ns: | | 1 | |
| 42.0 | 5 | Sect: \$2010 | 1 19*75mm sa pine skirting | fanct | ions that are eacle | sed in | () Everyth | ing el | ise will be ignored | as well as | | il ca | de . | | |
| 43.0 | 2 | Secti | ROOFING | every | thing after the ap- | estropi | e'. Operata | ideni V | within brackets (a sated from left to : | nd) will be right. The or | in a second | | | | |
| 44.0 | 5 | Secti t3039 | Rooftiles ludlow std complete | 15-00 | the operator to en | sore th | at the calcula | ation | reflects the opera | tee's intentio | R. LEIGUUP | | | | 180 000 |
| 45.0 | 5 | Sect: (3039 | Taper ridge std/granular | 0.95 | 101 | | | | | | radius | | 0 | _ | 64.000 |
| 46.0 | 5 | Secti 13039 | Roof truss type 20 25 deg 8.1m span | 3.75 | JL | | | | | | | | 0 | | 10 000 |
| 47.0 | 5 | Secti 14010 | 114*38 s a pine 4.2-6.6m | 1 50 | 17K | | | | | | | | Û | 1 | 55.000 |
| 48.0 | 6 | Secti 13039 | 38*38mm batten @ 320mm c/c to rece | 2 00 | 'KM | | | | | | | | Π | | 180,000 |

Record progress: Cumulative, Month, Percentage or Worksheet by double-clicking on the CumQty cell of the item

| | Retention Rules | - | | × | In this | example: 10% retention to a maximum of R500 000 Thereafter, a fixed amount of R50 000 |
|---|---------------------|------------------------|----------|-----|---------|---|
| | Work to upper limit | Basic retention | % Retent | ion | | merearter, a fixed amount of K50 000 |
| • | 500 000.00 | 0.00 | 10 | .00 | | |
| | 10 000 000.00 | 50 000.00 | 0 | .00 | | |
| * | | | | | | |

| Page | Item | Description | Unit | Rate | Bille | 4 | Mor | ith | Cumula | tive |
|------|-------|--|---------------------------|--------|----------|-----------|----------|-----------|----------|-----------|
| 5e | | 0.92) | | | Quantity | Amount | Quantity | Amount | Quantity | Amount |
| | 3 | EARTHWORKS | | 0 | | | 0 | | | |
| | n1010 | Excavate in soft for strip footing, use as backfill. Trim excavation | MP | 156.89 | 6.8 | 1 074.23 | | | 6.85 | 1 074.23 |
| | p1010 | 150 mm G 7 selected layer compacted to 93% Mos AASHTO (Min CBR 15%) | MP | 512.11 | 2.0 | 1 024.22 | | | 3.00 | 1 536.33 |
| | r1010 | BRICKWORK Half claybrick wall in super- structure | M² | 246.80 | 73.8 | 18 224.92 | 36.92 | 9112.46 | 73.84 | 18 224.92 |
| | h5050 | Brick on edge wall in sides to bath | M^2 | 442.16 | 1.2 | 535.01 | | | | |
| | q1010 | One claybrick wall in super structure incl wire ties | $\mathbf{M}^{\mathbf{z}}$ | 491.08 | 136.2 | 66 879.68 | 68.09 | 33 439.84 | 136.19 | 66 879.68 |
| | q1060 | One claybrick wall in beam- fill exe 250mm n/e 300mm h | м | 203.12 | 58.0 | 11 791.12 | 58.05 | 11 791.12 | 58.05 | 11 791.12 |
| Vari | ous C | Certificate layouts available including | Sanral | | | | | • | | • |

| Ma | Materials on site | | | | | | | | | | | |
|-------|-------------------|---|------|-----------|--------------|----------|--|--|--|--|--|--|
| Class | Resource | Description | Unit | Base rate | Current rate | Quantity | | | | | | |
| 4C | 4C1010 | Concrete Lintel 100mm x 0.9m | Ea | 37.00 | 37.00 | 10.000 | | | | | | |
| 4C | 4C1020 | Concrete Lintel 100mm x 1.2m | Ea | 39.00 | 39.00 | 0.000 | | | | | | |
| 4C | 4C1030 | Concrete Lintel 100mm x 1.5m | Ea | 41.00 | 41.00 | 0.000 | | | | | | |
| 4C | 4C1040 | Concrete Lintel 100mm x 1.8m | Ea | 75.00 | 75.00 | 2.000 | | | | | | |
| 4C | 4C1060 | Concrete Lintel 100mm x 2.4m | Ea | 96.00 | 96.00 | 2.000 | | | | | | |
| 4C | 4C6040 | 150*150*22mm terrazo cill | NO | 11.25 | 11.25 | 0.000 | | | | | | |
| 4D | 4D1050 | Non-Facing Plaster Brick Standard (NFP) | 1000 | 1 950.00 | 1 950.00 | 0.000 | | | | | | |
| 4E | 4E3220 | Aluminium window 600w 900h | ea | 695.00 | 695.00 | 2.000 | | | | | | |
| 4E | 4E3540 | Aluminium window 1500w 1500h | ea | 3 200.00 | 3 200.00 | 2.000 | | | | | | |

Record the base rate (defaults to tender rate) current price of the material and quantity

Materials on Site

| Resource | Description | Unit | Current rate | Base rate | Quantity | Amount@B/rate |
|----------|------------------------------|------|-------------------|-----------|----------|---------------|
| 4C1010 | Concrete Lintel 100mm x 0.9m | Ea | 37.00 | 37.00 | 10.00 | 370.00 |
| 4C1040 | Concrete Lintel 100mm x 1.8m | Ea | 75.00 | 75.00 | 2.00 | 150.00 |
| 4C1060 | Concrete Lintel 100mm x 2.4m | Ea | 96.00 | 96.00 | 2.00 | 192.00 |
| 4E3220 | Aluminium window 600w 900h | ea | 695.00 | 695.00 | 2.00 | 1 390.00 |
| 4E3540 | Aluminium window 1500w 1500h | ea | 3 2 0 0.00 | 3 200.00 | 2.00 | 6 40 0.00 |
| | | | Total MOS at Base | Rate: | | 8 502.00 |

Escalation

| s | Materials MOS Project Escal | tion Setting | settings n to Workgroup Esc 1g | 2 ▼ Sort into Wor ► Edit work/ pe I Escalation Rep calation | kgroups riod port | 😢 Initial [= Assign = Index frm_Assign | settings to Workgi InEscalatic | oup Escalat | T Sort into Workgroups V E Edit work/ period E Escalation Report C tion |
|----------------|------------------------------------|-----------------|---|--|---|---|--------------------------------------|-------------------|--|
| Ba (H Fa | se date:)aylett (C)iv actor | 2020-1 ils C | 01-01 | By changing the Base periods will be reset w month as the first peri escalation calculation relation to indices of t | e Date, the esca with the Base Da od of 60. The will be done in he Base Date. | Select ite From item: | am range: 31.00 | <u> </u> | o item: 37.00 |
| • | Nr Work (| Group De Fue | escription | Civils split | * | Select the Es Work Group | calation | 3.1 5.2 | Reinforcement (supply only) |
| | 1 Lc 2 Lw | Lab | our our | 10.00 | _ | ₽ • a1080 | Site esta | 7 8.1 9 | Masonary Waterproofing Non-metal roof covering |
| | 3 P | Plar | enar It | 45.00 | <u> </u> | a1090 | Overhea | 10 10 1 | Carpentry and Joinery Suspended non-metal ceilir |
| | | | l otal: | 100 | V | a2020 a2010 | Contract | 10.2 11 | Resilient floor and wall cove Ironmongery |
| Ent | ter base dat | e and if it | is Civil or Hay | lett | | Assign to v | vorlgtroup | os (Civ | il: escalate or not) |

| | | Base index | | Current index | | To date | |
|------------|-----------------------------------|------------|-------|---------------|------|------------|------------|
| Work group | Description | 2020-01-01 | Prov. | 2020-03-28 1 | Prov | Work done | Escalation |
| 10 | Carpentry and Joinery | 100.000 | | 101.000 | | 101 681.73 | 864.29 |
| 10.2 | Resilient floor and wall covering | 100.000 | | 101.000 | | 29 343.67 | 249.42 |
| 13 | Metalwork | 100.000 | | 101.000 | | 63 372.19 | 538.66 |
| 2 | Earthworks | 100.000 | | 101.000 | | 300.06 | 2.55 |
| 27 | Preliminaries | 100.000 | | 101.000 | | 19 660.52 | 167.11 |
| 8.1 | Waterproofing | 100.000 | | 101.000 | | 69 461.91 | 590.43 |
| | | | | Tot | al: | 283 820.08 | 2 412.46 |

Provisional Claim

| H D N Je 63 | ouse MRBM 140m2 r BB Keet 36 corsekloof effreysbaai 300 | ,, | | | Contact: Telephone: Fax: VAT number | Ernst Marais 042 296 1494 4420197560 |
|---------------------------|---|----------|-----------------|--------------------|--|--|
| TO: | | | Project | 0001 | House MRB | M 140m2 |
| My Huisboue Wonderboom | rs nsingel 94 | | | Ĩ | CERTIFICA | TE NUMBER: |
| Wavecrest | | | | | | |
| Jeffreysbaai | | | | | | or a fill in one i |
| VAT number: | 3521298651 | | | Ļ | Woens dag, | 25 Maart 2020 |
| Contact: Telephone: | Deon Rathbone 072 76 5983 | | NOTE certifi | : VAT i ed amou | n voice to be issue nts are received. | d as soon as details of |
| Des cription | | Mont | h | Previe | ous Cum | ulative |
| Provisional Certif | ied | 293 034. | 55 | 175 49 | 2.47 46 | 8 527.02 |
| Retention | | -29 303. | 45 | -17 54 | 9.25 -4 | 6 852.70 |
| VAT | | 39 559. | 67 | 23 69 | 1.48 6 | 3 251.15 |
| Sub total: | | 303 290. | 77 | 181 63 | 4.70 48 | 4 925.47 |
| Less previous pay | rments: | | | -181 63 | 14.70 | |
| Outstanding from | previous periods: | | | | | |
| | | | | | | |