January 2021

QSPLUS INTERNATIONAL QUANTITY SURVEYING AND COST MANAGEMENT SOFTWARE SOLUTION

INTRODUCTION

New Dimension Technology (NDtec) has been developing software for quantity surveyors for over 20 years. We are proud to offer you **QSPlus International**, adaptable for all international QS and Cost Management practices. This product is the result of the experience gained in developing software and servicing user requirements in the QS profession.

SYSTEM OVERVIEW

- **QSPlus International** is a 32 bit Client/Server software application and runs on Windows 7, 8 or 10. It is fully multi-user over a network and is based on a relational database management system.

  The underlying power of **QSPlus International** is its use of relational data base management technology facilitating the total integration of data. This means that data entered in the cost plan module is passed to each of the following modules, obviating double entry of data. Many software applications are available to the profession but we believe that none provides the complete data integration that **QSPlus International** does.

  The move today is to enterprise software that offers the total integration of all operational procedures and the result is that valuable data does not remain "trapped" in a particular application. **QSPlus International** provides this enterprise software platform borne of over ten years of experience developing software in the relational data base environment.

  Another powerful function of **QSPlus International**' the ability to copy and paste any data displayed in a datasheet view form or sub form into Microsoft Excel, providing a spread sheet of live data for further analysis.

- **QSPlus International** through its network capabilities allows users to share data as well as accessing a central pool of "core" data such as libraries of descriptions, price data, client, consultant and contractor information that can be centrally updated to maintain uniformity within the operation. The multi-user capability also provides a powerful management tool where managers can log on to job files and ascertain the actual progress of work.

- The access of users to various parts of **QSPlus International** is managed by user privilege codes controlled by the system manager.

- Each new project created becomes a separate database thus keeping the data in very manageable proportions. Other project databases can be opened from within a project and data can be easily copied to the current project.

- Backup and Restore operations are governed by Windows System Tools, an effective method of backing up either to CD, DVD or tape. **QSPlus International** provides the means of compacting jobs so that file sizes on disk are kept as efficient as possible.
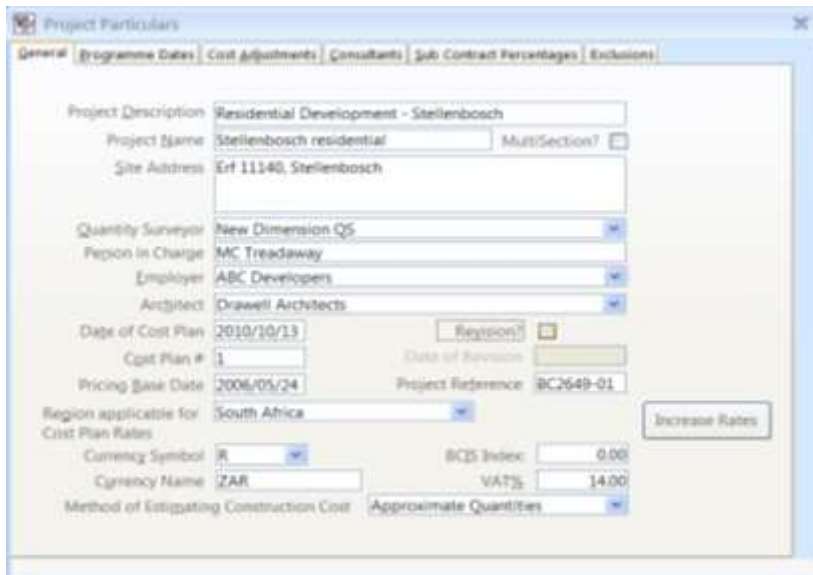

COST PLANNING MODULE

General overview

- The Cost Planning module allows you to prepare measure and price a cost plan that is output in Elemental format with various levels of printed reports.

- A powerful feature is that the data in the Cost Plan can be automatically converted to tender documents

- All of the powerful take-off functions more fully described in the Tender Document module are also present in the cost Plan module

Some screen shots are included with this module as an illustration of the appearance and functionality of the software.

Contract particulars

- Entry of general data relating to the project such as project description, client and consultants (selected from a central database) cost plan dates, program dates, VAT %, forecast of price increases from cost plan date to project completion.

- Setting of percentages or amounts for professional fees

- Describing additional provisions outside of the cost plan to be considered

Cost Plans sections and locations
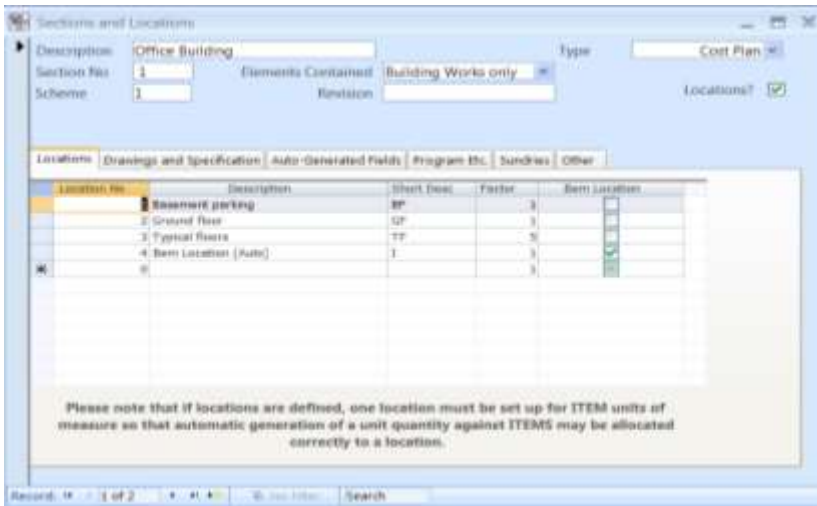
- This allows the setting up cost plan sections for multi-use building cost plans with the ability to set up locations (sub divisions or cost centres within cost plan sections) with in each building

- Drawings used for each consultant registered in Contract Particulars can be entered as well as the option to vary the professional fees allocated for each section.

- Percentages or amount can be set for Preliminaries, Contractor mark-up (if required) and Contingencies

- Program dates defaulted from Contract particulars can be amended to suit phased construction of the various buildings

- Sundry items not catered for by any of the above options can be entered

- A Description of each building can be entered

Construction, site and rentable areas

- Allows the up-front entry of measurements for these items which can be later used for the measurement of cost plan items. These areas appear on the printouts for information and calculation of efficiency ratios.

Measurement

- Items are selected from a standard library of items, edited as required and dimensions entered
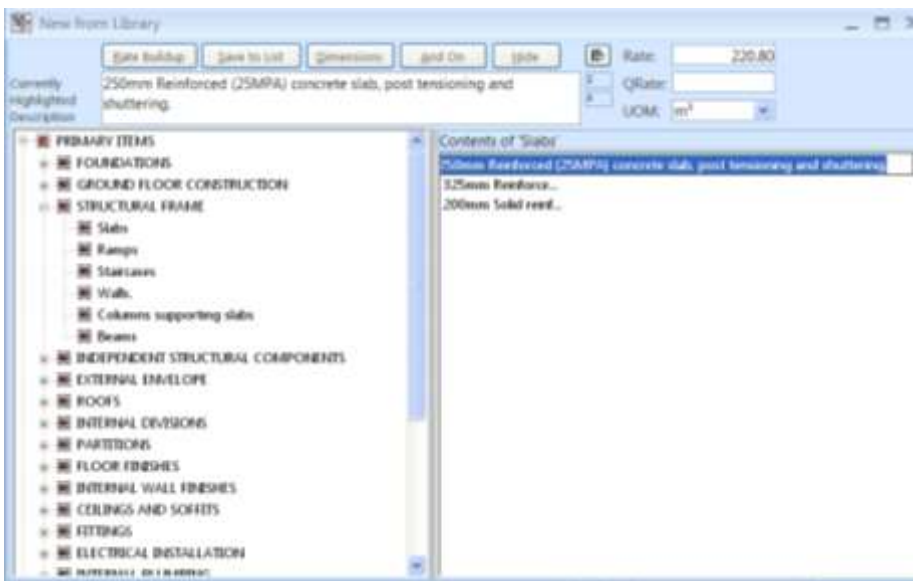
Entering Dimensions

- Dimensions measured for one item (source item) may attached to another item (target item) by using the **And on** function. If the source item dimensions are amended the target items are automatically updated.

- New items can be "cloned" off existing items measured and the description edited.

EDIT RATE BUILD UP

- This function allows the user to edit the following:

  Cost plan item description
  Variables in the formulae
  Attached trade related line items making up the rate build up
  The package each line item is assigned to
  Rate for each line item from a central rate file
  Quick Rate to override the built up rate
  (Note that this operation can also take place when selecting an item from the library or cloning a new item)

Dimensions, draft cost plan abstract, package groups, locational summaries, etc. Below is an example of the Elemental analysis (Executive Summary) the software produces

Put your Logo Here!

Beta 10
Building 1, Scheme 1, Revision 0

14 August 2000
Test beta 10A

Elemental analysis of construction cost	Unit	Quantity	Unit Rate R	Cost R	Cost/m² R	Cost %
1 FOUNDATIONS	m²	500	273.83	136 914	63.68	16.59%
2 STRUCTURAL FRAME	m²	1 200	227.85	273 415	127.17	33.13%
3 EXTERNAL ENVELOPE	m²	300	566.96	170 088	79.11	20.61%
4 FLOOR FINISHES	m²	1 148	70.00	80 360	37.38	9.74%
5 PRELIMINARIES	m²	2 150	30.73	66 078	30.73	8.01%
6 CONTRACTOR'S FEE	m²	2 150	16.90	36 343	16.90	4.40%
7 PRICE AND DETAIL DEVELOPMENT	m²	2 150	10.65	22 896	10.65	2.77%
8 BUILDING CONTRACT CONTINGENCIES	m²	2 150	18.28	39 305	18.28	4.76%
	m²	2 150		825 398	383.91	100.00%

Copy data

- Items from other projects can be easily copied in to the current project database

Print Cost Plan

- This offers options to print out the cost plan at various le**vels, namel**y, rolled up project level, section (building) level, executive summary (elemental analysis), item detail (with or without rate build up line items)

Generate tender documents

- The cost plan items have trade items attached and this process unpacks these items and using the quantity measured against each cost plan item creates trades, headings subheading and items in trade order. The tender document can be generated for any package contained in the cost plan, i.e. Principal contract, roof covering, etc. The principal contract tender document will automatically create an item in the Provisional Sums trade with the correct description and money value for inclusion in the tender

- The entire Guide to Elemental Cost Estimating is included as a Help File on the system.

BILLS OF QUANTITIES MODULE

- This module will allow the tender document to be created from the cost plan data or from new measurements. The document can be edited in the cost plan module or in the tender document once in has been generated. The tender document, once generated can be added to and edited as required.
- To view a video of Bill production **CLICK HERE**

- All the project particulars entered in the cost plan module are passed to the tender document module
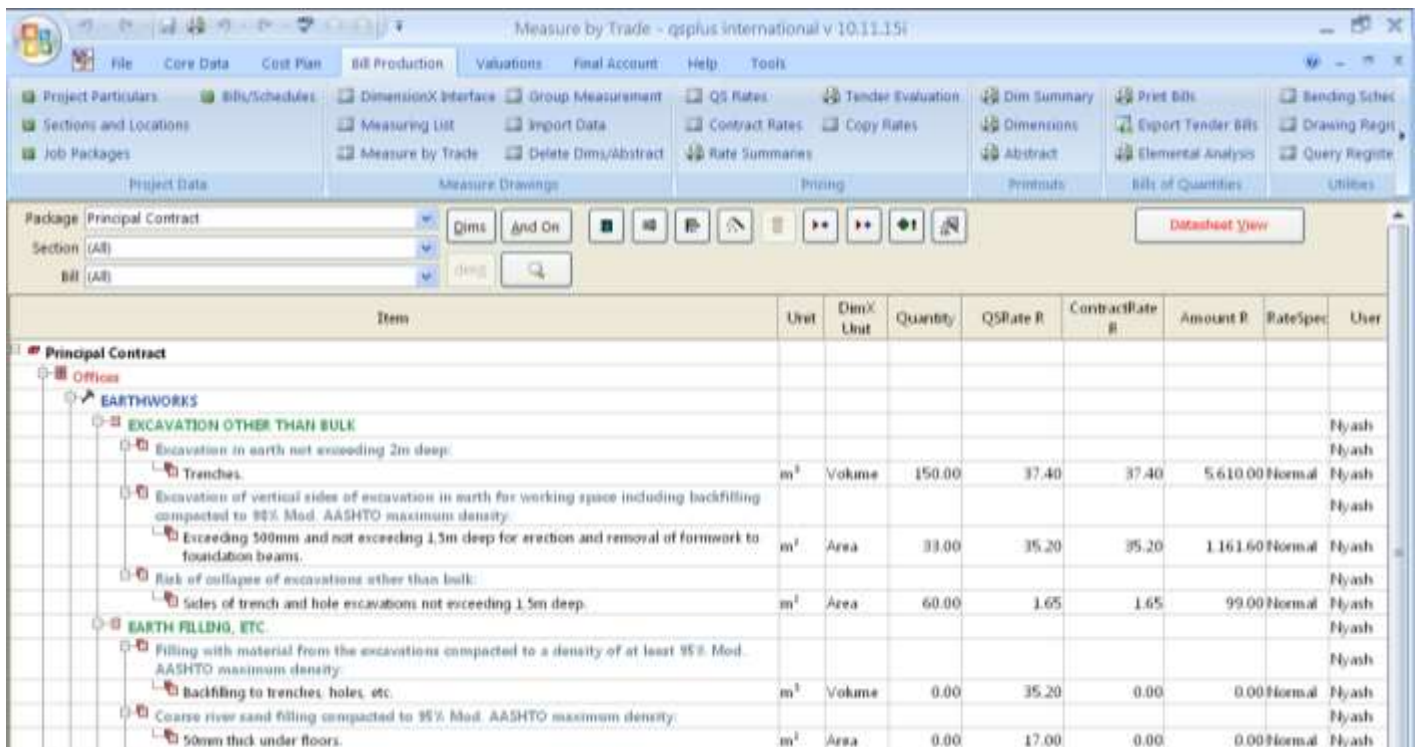
- Separate "sub contract packages" can be generated from the cost plan if the data is suitable or the "package can be measured from scratch. All package documents are stored within the project for later contract pricing, payments and final account work.

- This is a comprehensive module allowing you to take off onto an easy-to-use dimension screen, which is easily amended by merely pointing at the dimension you wish to amend and over-typing the new dimension. Quantities can be entered using a digitiser. Items are measured by first selecting the package and section and then dim sheets are allocated to each location, if present.

- The "And on" function will link measurement and as many descriptions as you wish and amendments to the source dimensions will cascade through the "Anded on" items. One can also use the "copy and paste" function to re-use existing dimensions. (Also in Cost Plan module)

- "Group measurement" will allow you to select items and place them on a group list (e.g. A door type) and then apply various qualifying dimensions to each item. **QSPlus International** will then automatically create bill items based on the qualifying dimensions. Groups can be copied for use on similar lists (e.g. similar door type, etc.)

- "Side casts" can be measured (e.g. collections, areas, etc) and automatically embedded in dimension cells with amendments being cascaded as before. (Also in Cost Plan module)
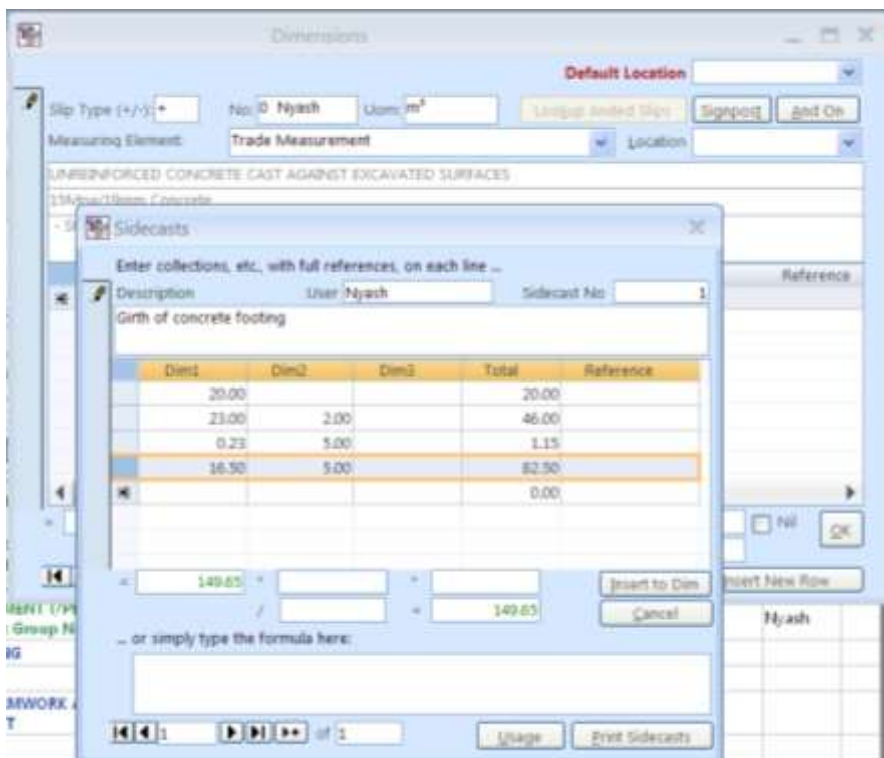
- There is full online Context Sensitive help to assist the new user. (Also in Cost Plan module)
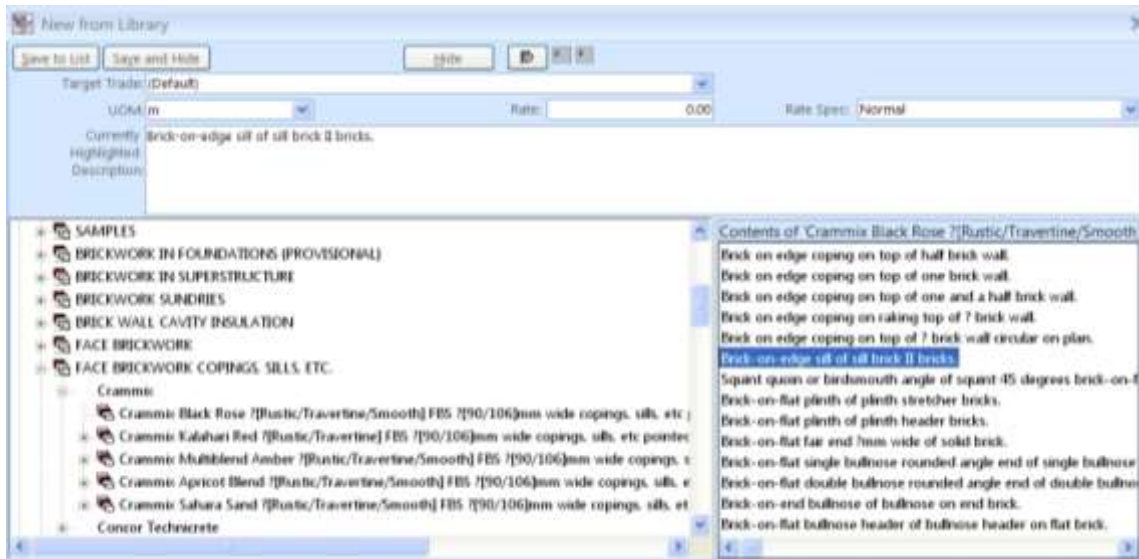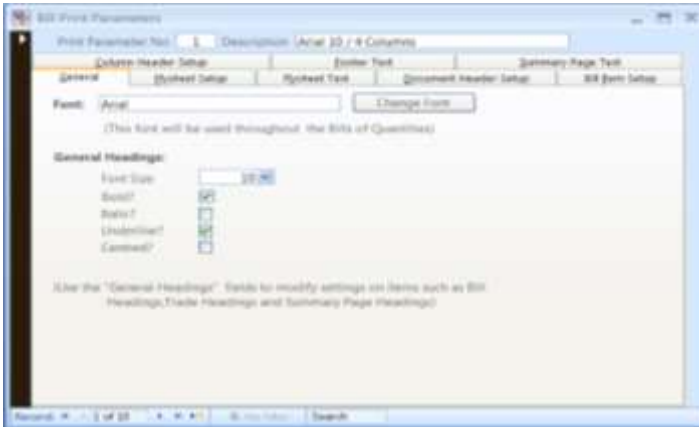
- Descriptions are selected from the Standard Library by opening a Library tree and highlighting the items required. These descriptions are then saved to a measuring list or measured immediately. (Similar tree to the Cost Plan module but displays trades rather than cost plan elements) When you click on an item the heading and sub heading are automatically inserted as well.

  - **QSPlus International** contains a number of Standard Libraries (Southern Africa - ASAQS SSM7, Middle east -POMI, UK- SMM7, India - CPWDDSR USA - CSI MasterFormat which provide you with Bill item descriptions you want to measure in the bills.

- Alternatively, item descriptions may be copied from one job to another, from a particular job to another section or trade in the same job, and may optionally include dimensions as well.

- All items appear immediately on the "Measure by Trade / Bill Tree" screen and this allows anyone measuring on the jobs to view and access dimensions and descriptions measured by the other users. (No messy merging of stand-alone measured work, which can create all sorts of problems). **QSPlus International** automatically puts items measured by a user into the correct trade and in correct trade order. You don't have to set up the trades beforehand.

- "Cloning" from an existing item, or editing an item from the Standard Library easily creates rogue items. *(Also in Cost Plan module)*

- Rogue items incorrectly positioned are easily moved within the abstract by using the "Move item / group of items" function. *(Also in Cost Plan module)*

- No codes are used – all selections etc. are point and click *(Also in Cost Plan module)*

- Descriptions and dimensions may be copied from one section to another, one location to another and from a completely different job in a similar fashion to the library selection. *(Also in Cost Plan module)*

- Where locations have been used in the measurement the total of each location is displayed below each bill item if required with the total of reflected locations in the "quantity" column of the bill.

- Tender documents may be sent to tenderers in various formats including an Excel file, on disk or e-mail.

- Wherever descriptions are displayed they are full descriptions. The flexibility of **QSPlus International** allows the user to define how much or how little of the description he wishes to see by dragging the boundaries of the cells of the data sheet view to his or her liking. *(Also in Cost Plan module)*

- All descriptions are editable in the "Edit Abstract" function.

- All dimensions are accessible from measuring list and abstract views to facilitate immediate lookup.

- The appearance of the tender documents is customisable in terms of font and standard wording and you can select any Windows font.
  The Standard Library can be modified to suit any local requirements and more than one library can be used.
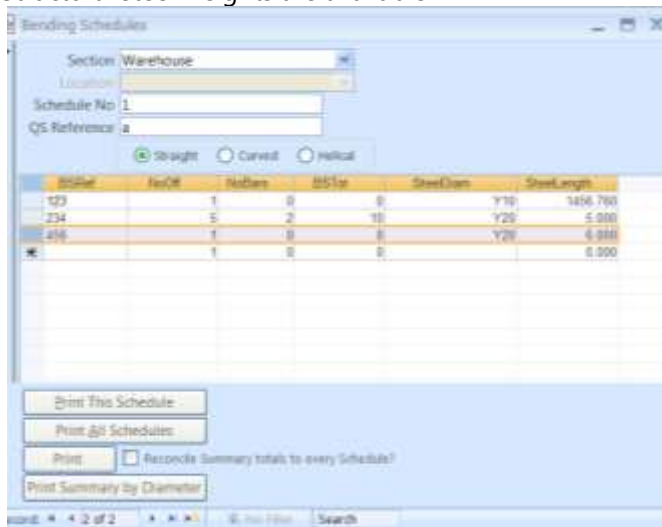
		Unit	Quantity	Rate	Amount
	SECTION NO. 2				
	FIRST BUILDING				
	BILL NO. 1				
	EARTHWORKS				
	EXCAVATIONS ETC				
	Extra over bulk excavations in earth for excavation in				
1	Soft rock	m³	25		
2	Hard rock	m³	12		
	Excavation in earth not exceeding 2m deep				
3	Trenches	m³	93		
4	Holes	m³	50		
	Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod AASHTO density				
5	Exceeding 500Mm and not exceeding 1,5m deep for placing and removing formwork to walls etc, 100mm away from excavated face	m²	500		
	Extra over all excavations for carting away				
6	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	100		

- **Bending Schedules**
  - There is a reinforcing steel bending schedule measuring module together with a drawing register and a query list

- Structural steel weights are available
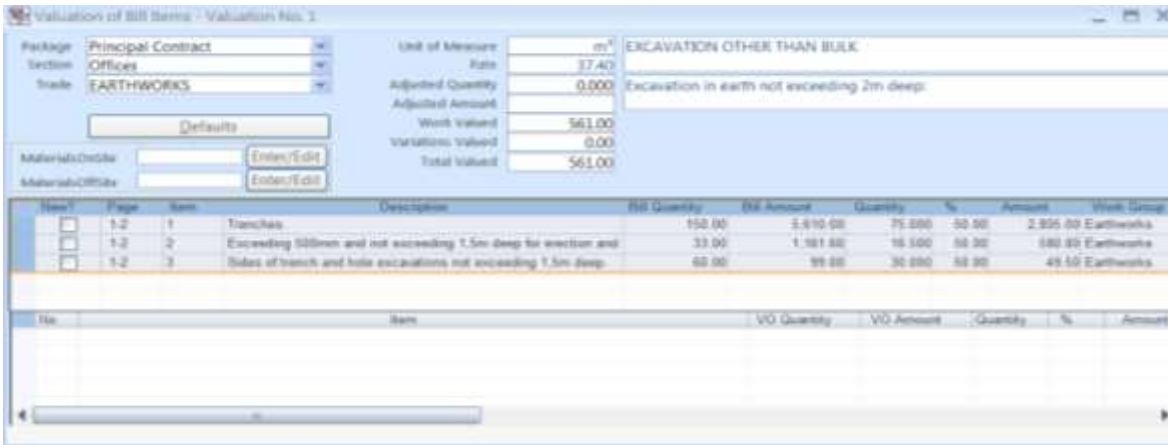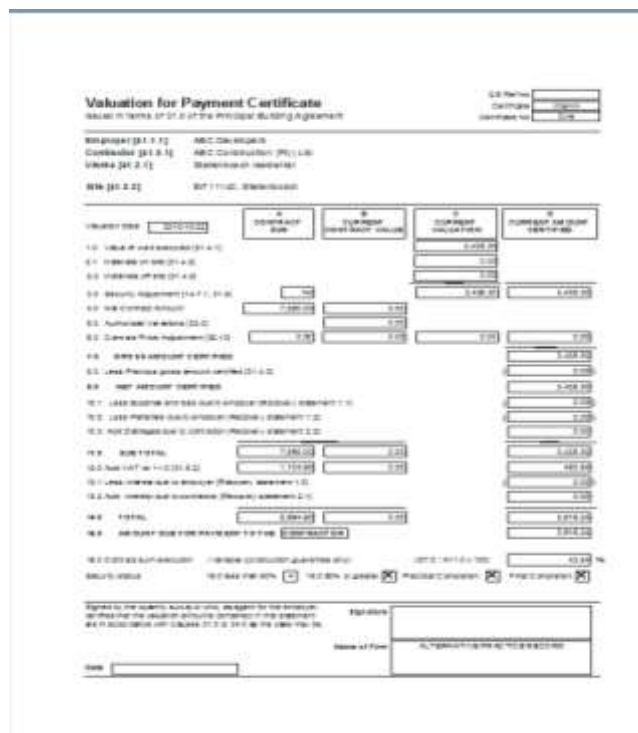
MONTHLY PROGRESS PAYMENT MANAGEMENT

- Data from the priced tender document is automatically passed into the payment management module.

- Progress payments are produced using construction guarantee or retention principles

- The Payment Management module is a complete solution allowing the valuation of principal contractor's work and sub contract packages from tick sheets against % complete, quantity complete or amount complete.

- Valuations can also be made against materials on and off site, as well as change orders measured in the final account module

- Checks in place for under and over certification

- Increased cost calculations are done for principal and Sub-contractors work.

Printouts are produced from detail to summary level.

The above is an example of the JBCC 2000 payment valuation form. Retention valuation forms as well as FIDIC payment forms are available

FINAL ACCOUNT

- The Final Account module allows you to measure Adds and Omits and produce printouts at various levels, including printouts of each Final Account item, and a summary showing the revised Total Contract Amount per package.

- Full printouts of item detail, final account summary and many more are available

- An "as built" trade bill can be printed containing all the variations measured in the final account.

- All the measuring functions described in the modules above are also present in this module with additional functions relating to the preparation of the final account such as omitting a range of items from the project
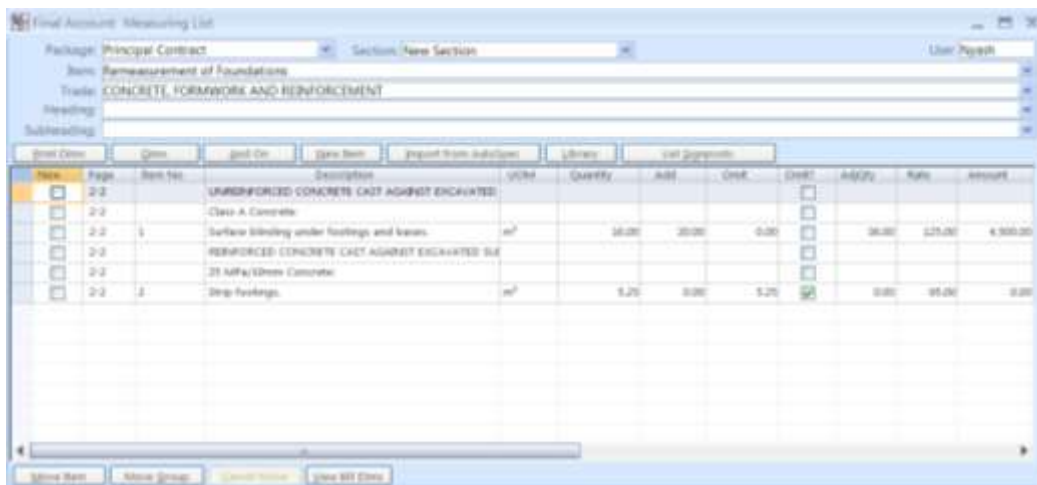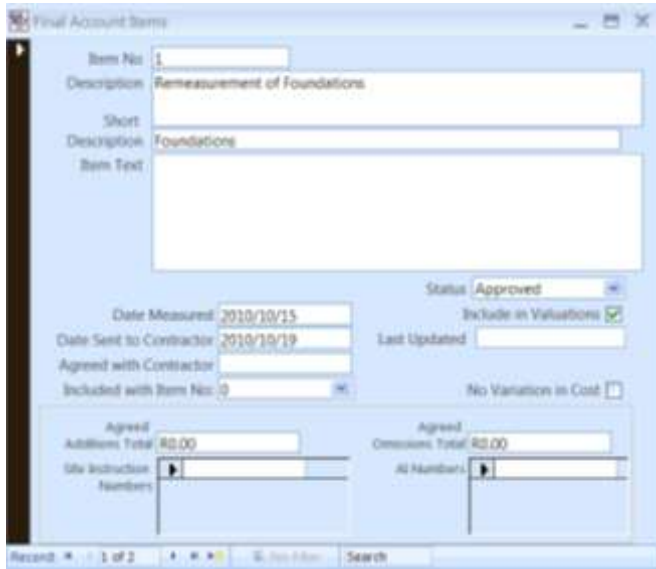
OTHER PRODUCTS

QSPlus International / DimensionX

- This innovative and time saving application from Australia will revolutionise the way you take off. No more paper simply open CAD drawings (supports .dwg, .dwf. dxf, .pdf vector images, Revit drawings and many more). With **QSPlus International**'s' interface with **DimensionX** your task is made even easier and faster. And if you receive Revit drawing your take off time is reduced to next to nothing.

- Call us today for a demonstration of how **QSPlus International DimensionX** will change your working life!
- To watch how DimensionX works **CLICK HERE**

BuilderPlus

- This is a new offering from NDTec and is design to allow builders and contractors to price their tender from first principles of labour, plant, materials and mark-up
- To watch a video of how BuilderPlus works **CLICK HERE**

OTHER CONSIDERATIONS

- All data in **QSPlus International** is easily copied and pasted to Microsoft Excel offering the benefit of being able to analyse and manipulate data created in **QSPlus International** to suit any particular requirement. The data is not locked away in the system.

  If present Contract Rate are exported into Excel format and multiple rates created in the spreadsheet for various Contractors can be imported back into the system for Comparison purposes.

- **QSPlus International** ships with powerful sorting and filtering data base management tools making the data accessible and usable

- **QSPlus International** is licensed at installation and our software does the necessary checking to ensure that all copies running are legal.

- This Company operates out of Cape Town, South Africa. An initial support program of one year's unlimited support from the date of installation is an integral part of any purchase. After that a software service agreement is available. We are connected to t and offer fast support of data problems via the Internet, email and Skype. Support is also available by telephone

- As stated above, online context-sensitive help is available on the system. **QSPlus International** also makes use of standard Windows control tips and status bar text to aid the user where applicable.

- A Trial licence of **QSPlus International** which will operate for 30 days is available on application.

- Online demos are also available on request.

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