



ProjectVIEW^{ERP}

Cost Monitoring Solution

Budget Costing

This section describes how to use the Cost Budgeting module in ProjectVIEW

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1 Introduction

To allow cost controllers to properly and efficiently monitor a project's cost, ProjectVIEW ERP uses internal Cost Codes. These are organized in a tree-like structure and should be setup upon the system initialization.

The number of levels used in the cost code structure depends on the complexity on which a company wishes to analyze their costs.

There are three types of budget:

1.1 BOQ Budget

A BOQ budget originates from a BOQ (usually an excel file received from a client). It contains the cost analysis, division/package analysis etc. It is used throughout the system. It uses the client's tree structure to sort the entries.

1.2 Cost Budget

A Cost budget is similar to a BOQ budget but is only used to monitor costs according to a Cost Tree. It is normally created after the creation of a BOQ budget and the assignment of Cost Codes to its BOQ lines.

This budget is usually more compact than a BOQ budget because it summarizes all BOQ lines according to their assigned cost code.

1.3 Primavera Budget

This budget originates from a connected Primavera budget. A separate manual explains how a Primavera project can be connected to ProjectVIEW.

2 Cost Budget

To view a list of the budgets, the user must navigate to:

“Budget Costing” > “Budgets”

Company	Branch Code	Branch Description	Project Code	Project Description	Sub Project Code	Sub Project Des	Budget Code	Budget Number	Budget Description	Commitment No
01	ALPHA COMPANY	01	ALPHA COMPANY	127487		Project 127487	127487-0	0	BOQ Budget 127487	26/10/19
01	ALPHA COMPANY	01	ALPHA COMPANY	200		Project 200	200-0	0	BOQ Budget 200	08/12/19
01	ALPHA COMPANY	01	ALPHA COMPANY	222		Project 222	222-0	0	BOQ Budget	01/04/20
01	ALPHA COMPANY	01	ALPHA COMPANY	225		Project 225	225-0	0	BOQ Budget 225	
01	ALPHA COMPANY	01	ALPHA COMPANY	235		Project 235	235-0	0	BOQ Budget	01/02/19
01	ALPHA COMPANY	01	ALPHA COMPANY	270		Project 270	270-0	0	BOQ 270	01/06/20
01	ALPHA COMPANY	01	ALPHA COMPANY	272		Project 272	272-0	0	BOQ Budget	15/06/20
01	ALPHA COMPANY	01	ALPHA COMPANY	272		Project 272	272-0	1	Indirect Expenses	01/05/20
01	ALPHA COMPANY	01	ALPHA COMPANY	299		Project 299	299-0	0	BOQ 299-0	
01	ALPHA COMPANY	01	ALPHA COMPANY	300		Rocket Tower	300-0	0	Rocket Tower Budget	01/04/19
01	ALPHA COMPANY	01	ALPHA COMPANY	321		Project Hussein Villa	321-0	0		01/06/18
01	ALPHA COMPANY	01	ALPHA COMPANY	331		Project 331	331-0	0	Budget 331	
01	ALPHA COMPANY	01	ALPHA COMPANY	333		Tornado Tower	333-0	0		01/06/19
01	ALPHA COMPANY	01	ALPHA COMPANY	339		Cinema Project -1	339-0	0	BOQ Budget for 339	01/07/19
01	ALPHA COMPANY	01	ALPHA COMPANY	339		Cinema Project -1	339-BOQ	0	Budget 339	01/05/20
01	ALPHA COMPANY	01	ALPHA COMPANY	339		Cinema Project -1	339P-0	0	BOQ Budget	01/06/20
01	ALPHA COMPANY	01	ALPHA COMPANY	339		Cinema Project -1	339Prest-0	0	BOQ Budget	
01	ALPHA COMPANY	01	ALPHA COMPANY	345		Project 345	345-0	0	Budget BOQ of 345	01/06/20
01	ALPHA COMPANY	01	ALPHA COMPANY	377		Project 377	377-1	1	Cost Budget 377	01/06/19
01	ALPHA COMPANY	01	ALPHA COMPANY	388		Project 388	388-0	0	BOQ Budget of Proj. 388	01/06/20
01	ALPHA COMPANY	01	ALPHA COMPANY	398		3 Floors Building	398-0	0		02/04/18
01	ALPHA COMPANY	01	ALPHA COMPANY	398		3 Floors Building	398-1	1	Cost Budget 1	30/12/17
01	ALPHA COMPANY	01	ALPHA COMPANY	398		3 Floors Building	398-P	0	3 Floors Building	
01	ALPHA COMPANY	01	ALPHA COMPANY	442		Project 442	442-0	0	BOQ Budget 442	01/07/20
01	ALPHA COMPANY	01	ALPHA COMPANY	444		Cinema Link Extension	444-0	0		12/04/18
01	ALPHA COMPANY	01	ALPHA COMPANY	450		Project 450	450-0	0	BOQ Budget	10/05/19
01	ALPHA COMPANY	01	ALPHA COMPANY	450		Project 450	450-0	0		
01	ALPHA COMPANY	01	ALPHA COMPANY	456		Project 456	456-0	0	BOQ Budget 456-0	01/07/18
01	ALPHA COMPANY	01	ALPHA COMPANY	500		Project 500	500-0	0	Project 500 BOQ Budget	02/04/18
01	ALPHA COMPANY	01	ALPHA COMPANY	500		Project 500	500-1	1	Cost Budget	02/04/18
01	ALPHA COMPANY	01	ALPHA COMPANY	500		Project 500	500-P	0	Star Building	
01	ALPHA COMPANY	01	ALPHA COMPANY	505		Project 505	505-0	0	Stadium 505	02/04/18
01	ALPHA COMPANY	01	ALPHA COMPANY	505		Project 505	505-P	0	Project 505	
01	ALPHA COMPANY	01	ALPHA COMPANY	510		Project 510	510-0	0		02/04/18
01	ALPHA COMPANY	01	ALPHA COMPANY	559		Cinema A	559-0	0	BOQ Budget for Cinema A	01/06/20

Basic Data

- Company Code: 01 ALPHA COMPANY
- Branch Code: 01 ALPHA COMPANY
- Project Code: 559 Cinema A
- Sub Project Code:
- Unit:
- Budget Code: 559-1 Budget Number: 1
- Budget Description:
- Commitment No:
- Budget Type Flag: Open Locked Budget Type: BOQ Budget Cost Budget Primavera Budget Others
- Active Budget:
- Progress Calc Date: 26/10/20

Parameters

- Budget Date: 01/05/20 Allow Update From Requirement:
- Budget Year: 2020 Allow Update From Commitment:
- Budget Max Levels: 4 0 Maps
- Budget Amount: 83,107,911.66
- Order Group Code:
- Department Code:
- Cost Model Code:

Budget Analysis

- Print Budget: Decimal Digits:
- Horizontal: Progress Till Now:
- Not BOQ Cost:
- Calculate Weight from Budget Amounts
- Calculate Perc Done
- Update Perc Done
- Recalculate Calc Weight
- Update Perc Done(Excel)
- Create Budget from Cost Tree
- Cost Code Pathers
- Merge Connected Budgets
- Update Resources By Connected Analysis
- Update Speciality - Machinery Types
- Update Amount09 from Excel
- Update Speciality 000

Other Information

- Comments:
- Excel File:
- CloudID: Cloud Link

When the button “*Refactored Budget Analysis*” is clicked (See. Add a budget – Edit Budget) a new Grid View appears in which all Budget Records are displayed.

BOQ Item	BOQ Item Description	Qty	Cost Budget Item	Level No	Date From	Date To	Unit Rate	BOQ Amount	General Expen	Material	Labor	Plant	SubContractor	Overhead %	Risk %	Profit %
1599	Grid Add Prompt	0		1	01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
A1	Substructure	0		2	01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
A101	Foundations	0		3	01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
A1012	Special Foundations	0		4	01/03/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
A101202	Grade Beams	0		5	01/03/20	31/12/20	0.00	0.00	0.00	44435.57340	0.00	0.00	0.00	0.00%	0.00%	0.00%
A101203	Cansons	2433		5	01/03/20	31/12/20	0.00	0.00	0.00	769.211.34	116.00	0.00	0.00	0.00%	0.00%	0.00%
A102	Basement Construction	0		3	01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
A1023	Slab on Grade	0		4	01/03/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
A102302	Structural Slab on Grade	396		5	01/03/20	31/12/20	0.00	0.00	0.00	862.972.16	946.00	0.00	0.00	0.00%	0.00%	0.00%
B1	Exterior Enclosure	0		2	01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
B101	Exterior Walls	0		3	01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
B1012	Special Wall Elements	0		4	01/03/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
B101201	Blockworks	0		5	01/03/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
G1	Sitework	0		2	01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
G101	Sitework - Building Related	0		3	01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
G1011	Site Preparation & Demolition	0		4	01/03/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
G101102	Site Demolition and Retention	498		5	01/03/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%

Clicking on the button inside any Cost Category (General Expenses, Material, Labor, Plant, SubContractor) will display a new window with the analysis of that cost category:

Qty	U Price	Amount	Hist	Pct	VL Cost	WastePerc	QntRequired	H Ratio	Columns	Material	Item Code	Item Description	Supplier Code	Nos	Supplier Description	Qnt For One Unit
47.976.00	83.00	4,077,960.00				0.00%	0		2		081300	Metal Frames				
47.976.00	415.00	19,910,040.00				0.00%	0		2		081300	Metal Doors				
47.976.00	14.63	701,606.38				0.00%	0		2		090000	Grouting				
47.976.00	33.00	3,542,728.00				0.00%	0		2		079300	Joint Sealants				
47.976.00	0.00	0.00				0.00%	0		2		087000	Hardware				
47.976.00	85.47	4,004,156.72				0.00%	0		2		099100	Painting				
47.976.00	15.00	719,640.00				0.00%	0		2		081300001	Anchor				
47.976.00	260.00	12,473,760.00				0.00%	0		2		081300002	Vision Panel				

Grand Summaries

44,430,573,600

Right-clicking on the left of each line will show the following menu:

BOQ Item	BOQ Item Description	Qty	Cost Budget Item	Level No	Date From	Date To	Unit Rate	BOQ Amount	General Exps	Material	Labor	Plant	SubContractor	Overhead %	Risk %	Profit %
559		0			1 01/01/05	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
A1	Substructure	0			2 01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
A101	Foundations	0			3 01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
A1012	Special Foundations	0			4 01/05/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
A101202	Grade Beams	0			5 01/05/20	31/12/20	0.00	0.00	0.00	4,453,614.90	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
A101209	Caissons	2453			5 01/05/20	31/12/20	0.00	0.00	0.00	769,211.74	316.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Connected Documents	0			3 01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Construction	0			3 01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Grave	0			4 01/05/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Stairs on Grade	386			5 01/05/20	31/12/20	0.00	0.00	0.00	963,972.16	940.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Enclosure	0			2 01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Walls	0			3 01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Wall Elements	0			4 01/05/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Stairs	0			5 01/05/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	BOQ Dimensions	0			2 01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Building Related	0			3 01/01/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Extra Description	0			4 01/05/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Foundation & Demolition	0			4 01/05/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	BIM	498			5 01/05/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %
	Foundation and Relocations	0			5 01/05/20	31/12/20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	0.00 %

- ✓ By clicking on the “*Connected Documents*” option, the user can view all documents associated with that cost code
- ✓ By clicking on the “*Show Relations*” option, the user can view all the BOQ lines associated with that cost code

2.1 Create a new Cost Budget

To create a Cost Budget, the following prerequisites must be met:

1. A BOQ budget must exist
2. The BOQ budget mentioned above must have Cost Codes assigned to its lines (using the “Cost Budget Item” column)
3. The BOQ budget must be locked
4. The BOQ budget must be saved

Having assured the above, the user can create a new Cost Budget by following these steps:

1. Open the BOQ budget
2. Copy the budget

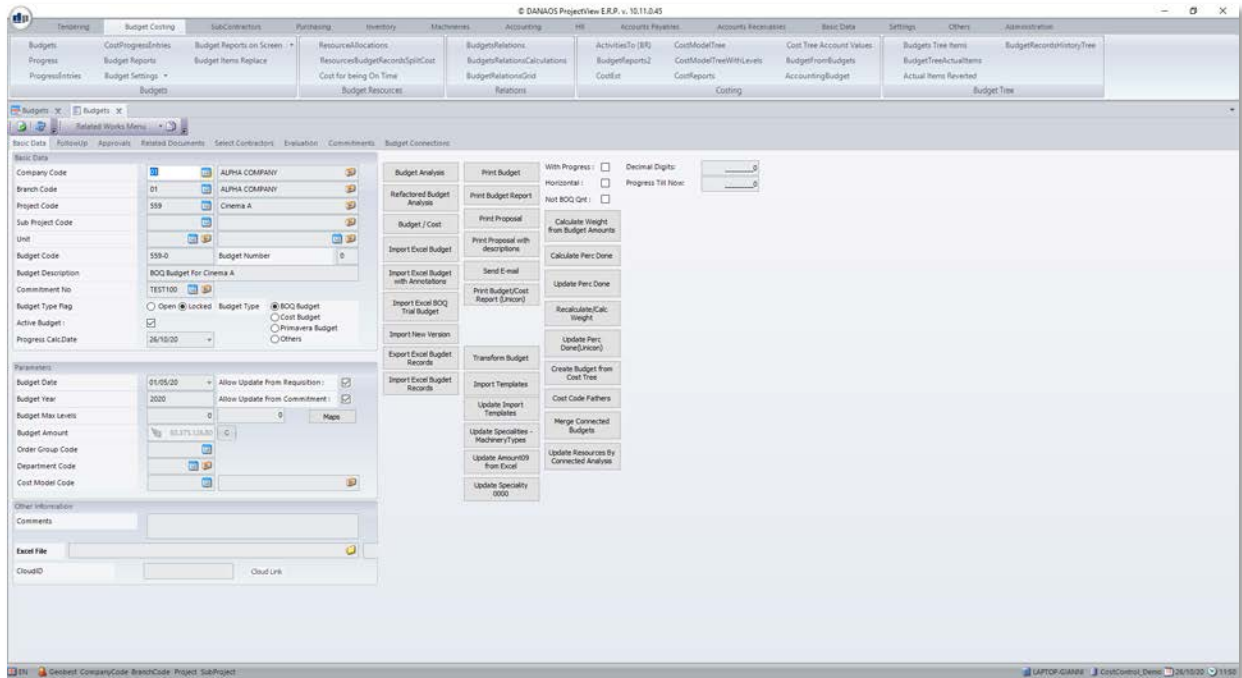
2.1.1 Open the BOQ Budget

The user must navigate to:

“Budget Costing” > “Budgets”

Company	Company Description	Branch Code	Branch Description	Project Code	Project Description	Sub Project Code	Sub Project Description	Budget Code	Budget Number	Budget Description	Commitment No
01	ALPHA COMPANY	01	ALPHA COMPANY	127	Project 127			127-0	0	BOQ Budget 127	28/10/19
01	ALPHA COMPANY	01	ALPHA COMPANY	200	Project 200			200-0	0	BOQ Budget 200	08/12/18
01	ALPHA COMPANY	01	ALPHA COMPANY	222	Project 222			222-0	0	BOQ Budget	01/04/20
01	ALPHA COMPANY	01	ALPHA COMPANY	225	Project 225			225-0	0	BOQ Budget 225	
01	ALPHA COMPANY	01	ALPHA COMPANY	255	Project 255			255-0	0	BOQ Budget	01/02/19
01	ALPHA COMPANY	01	ALPHA COMPANY	270	Project 270			270-0	0	BOQ 270	01/06/20
01	ALPHA COMPANY	01	ALPHA COMPANY	272	Project 272			272-0	0	BOQ Budget	15/06/20
01	ALPHA COMPANY	01	ALPHA COMPANY	272	Project 272			272-E	1	Indirect Expenses	01/05/20
01	ALPHA COMPANY	01	ALPHA COMPANY	299	Project 299			299-0	0	BOQ 299-0	
01	ALPHA COMPANY	01	ALPHA COMPANY	300	Rocket Tower			300-0	0	Rocket Tower Budget	01/04/19
01	ALPHA COMPANY	01	ALPHA COMPANY	321	Project Hussein Villa			321-0	0		01/06/18
01	ALPHA COMPANY	01	ALPHA COMPANY	331	Project 331			331-0	0	Budget 331	
01	ALPHA COMPANY	01	ALPHA COMPANY	331	Tornado Tower			331-0	0		01/06/19
01	ALPHA COMPANY	01	ALPHA COMPANY	339	Cinema Project -1			339-0	0	BOQ Budget for 339	01/07/19
01	ALPHA COMPANY	01	ALPHA COMPANY	339	Cinema Project -1			339-BOQ	0	Budget 339	TEST100
01	ALPHA COMPANY	01	ALPHA COMPANY	339	Cinema Project -1			339F-0	0	BOQ Budget	01/06/20
01	ALPHA COMPANY	01	ALPHA COMPANY	339	Cinema Project -1			339rest-0	0	BOQ Budget	
01	ALPHA COMPANY	01	ALPHA COMPANY	345	Project 345			345-0	0	Budget BOQ of 345	01/06/20
01	ALPHA COMPANY	01	ALPHA COMPANY	377	Project 377			377-1	1	Cost Budget 377	01/06/19
01	ALPHA COMPANY	01	ALPHA COMPANY	388	Project 388			388-0	0	BOQ Budget of Proj. 388	01/06/20
01	ALPHA COMPANY	01	ALPHA COMPANY	398	3 Floors Building			398-0	0		02/04/18
01	ALPHA COMPANY	01	ALPHA COMPANY	398	3 Floors Building			398-1	1	Cost Budget 1	30/12/17
01	ALPHA COMPANY	01	ALPHA COMPANY	398	3 Floors Building			398-P	0	3 Floors Building	
01	ALPHA COMPANY	01	ALPHA COMPANY	442	Project 442			442-0	0	BOQ Budget 442	01/07/20
01	ALPHA COMPANY	01	ALPHA COMPANY	444	Demo-Link-EXTRACTION			444-0	0		12/06/18
01	ALPHA COMPANY	01	ALPHA COMPANY	450	Project 450			450-0	0	BOQ Budget	10/06/19
01	ALPHA COMPANY	01	ALPHA COMPANY	450	Project 450			450-0	0		
01	ALPHA COMPANY	01	ALPHA COMPANY	456	Project 456			456-0	0	BOQ Budget 456-0	01/07/18
01	ALPHA COMPANY	01	ALPHA COMPANY	500	Project 500			500-0	0	Project 500 BOQ Budget	222
01	ALPHA COMPANY	01	ALPHA COMPANY	500	Project 500			500-1	1	Cost Budget	222
01	ALPHA COMPANY	01	ALPHA COMPANY	500	Project 500			500-P	0	Star Building	
01	ALPHA COMPANY	01	ALPHA COMPANY	505	Project 505			505-0	0	Stadium 505	02/04/18
01	ALPHA COMPANY	01	ALPHA COMPANY	505	Project 505			505-P	0	Project 505	
01	ALPHA COMPANY	01	ALPHA COMPANY	510	Project 510			510-0	0		02/04/18
01	ALPHA COMPANY	01	ALPHA COMPANY	558	Cinema A			558-0	0	BOQ Budget for Cinema A	TEST100

From this screen, the BOQ budget must be opened by double-clicking which will open the Budget Form:

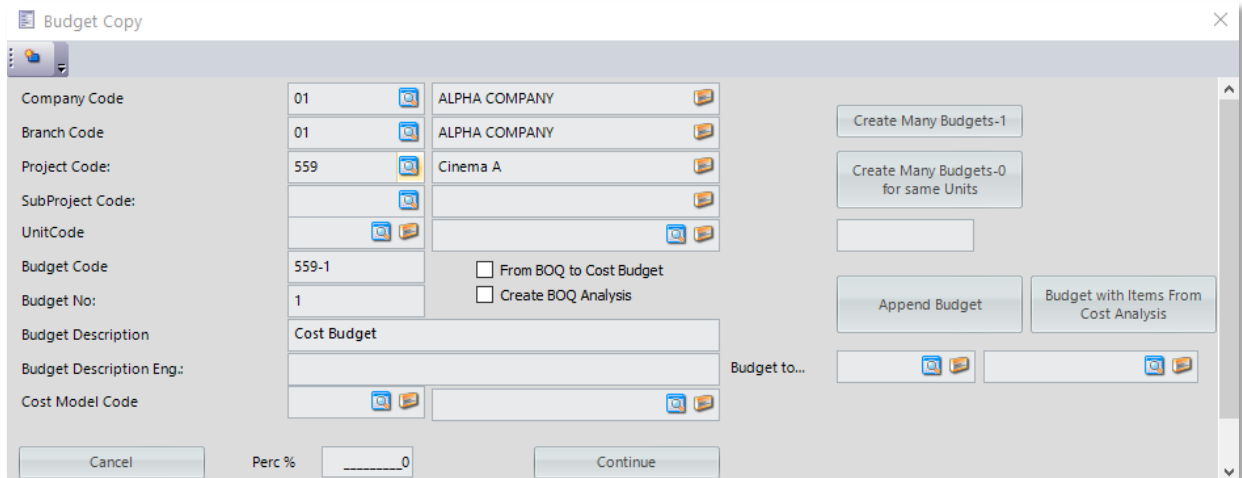


2.1.2 Copy the Budget

The user must click on the “Budget Copy” button on the toolbar:



This will display a new dialog box where the Cost Budget details must be filled-in:



Afterwards, the “Continue” button must be clicked which will create the Cost Budget.

Note

Please note that the details in this dialog box are the same with the ones in the BOQ budget. The differences are:

- ✓ Budget Code: The same as the budget plus “-1”
- ✓ Budget No: 1
- ✓ Budget Description

3 Assigning Cost Codes

There are various stages during a project’s lifecycle where a user can assign cost codes.

With the exception of Tendering, the following button can be found within all other modules which assigns a cost code to a grid line:



3.1 Tendering

To assign cost codes in the tendering module, the user must open a BOQ budget and assign a cost code to each line of a BOQ in the column “Cost Budget Item”.

BOQ Item	BOQ Item Description	Qty	Weight Prc	Cost Budget Item	Level No	Date From	Date To	Unit Rate	BOQ Amount	General Expen	Material	Labor	Plant	SubContractor	Overhead %	Risk %
01	5-Flours Mixed-Use Commercial and Residential Co...	0	100.00 %		1	01/01/18	30/09/18	0.00	11391.92140	30.0000	1.832.02841	665.56750	0.00	70.20000	0.00 %	0.00 %
01.02	Earthwork	0	1.84 %		3	01/01/18	31/03/18	0.00	46.746.50	5.0000	0.00	0.00	0.00	23.70000	12.00 %	12.00 %
01.02.300	Earth work in excavation in all types of soil inclu...	0	38.16 %		4	01/01/18	31/03/18	0.00	46.746.50	5.0000	0.00	0.00	0.00	23.70000	12.00 %	12.00 %
01.02.300A	Depth from ground level but not exceeding 2 m	0	67.25 % A102101		5	01/01/18	31/03/18	0.00	0.00	5.0000	0.00	0.00	0.00	14.30000	12.00 %	12.00 %
01.02.300B	Depth exceeding 2 m but not exceeding 4 m	431	32.75 % A102101		5	01/01/18	31/03/18	30.80	14.30000	0.00	0.00	0.00	0.00	9.40000	12.00 %	12.00 %
01.02.300C	Depth exceeding 4 m but not exceeding 6 m	1321	0.00 % A102101		5	01/01/18	31/03/18	24.90	32.36400	0.00	0.00	0.00	0.00	0.00	0.00 %	12.00 %
01.02.301	Earth work in excavation in soft rock (rock without...	0	29.92 %		4	01/01/18	31/03/18	0.00	0.00	0.00	0.00	0.00	0.00	22.90000	12.00 %	12.00 %
01.02.301A	Depth from ground level but not exceeding 2 m	500	33.33 % A102101		5	01/01/18	31/03/18	0.00	0.00	0.00	0.00	0.00	0.00	7.50000	12.00 %	12.00 %
01.02.301B	Depth exceeding 2 m but not exceeding 4 m	400	33.33 % A102101		5	01/01/18	31/03/18	0.00	0.00	0.00	0.00	0.00	0.00	7.00000	12.00 %	12.00 %
01.02.301C	Depth exceeding 4 m but not exceeding 6 m	300	33.33 % A102101		5	01/01/18	31/03/18	0.00	0.00	0.00	0.00	0.00	0.00	7.50000	12.00 %	12.00 %
01.02.302	Back filling upto any depth below ground level inclu...	0	19.95 %		4	01/01/18	31/03/18	0.00	0.00	0.00	0.00	0.00	0.00	15.00000	12.00 %	12.00 %
01.02.302A	Each layer compacted so as to achieve at least 85%	1500	100.00 % A102102		5	01/01/18	31/03/18	0.00	0.00	0.00	0.00	0.00	0.00	15.00000	12.00 %	12.00 %
01.02.302B	Back filling upto any depth below ground level inclu...	0	11.97 %		4	01/01/18	31/03/18	0.00	0.00	0.00	0.00	0.00	0.00	9.00000	12.00 %	12.00 %
01.02.302BA	Each layer compacted so as to achieve at least 95%	600	100.00 % A102102		5	01/01/18	31/03/18	0.00	0.00	0.00	0.00	0.00	0.00	9.00000	12.00 %	12.00 %
01.02	CONCRETE WORK	0	46.42 %		3	01/04/18	30/09/18	0.00	9.251.190	25.0000	1.646.60247	462.94000	0.00	0.00	0.00 %	0.00 %
01.02.300	CAST IN PLACE CONCRETE	0	10.81 %		4	01/04/18	30/09/18	0.00	114.777.80	25.0000	128.54607	77.94000	0.00	0.00 %	0.00 %	
01.02.300A	Pile Foundations...	30	94.27 % A101102		5	01/04/18	30/09/18	336.60	10.090.00	25.0000	117.86400	75.0000	0.00	0.00 %	0.00 %	
01.02.300B	Pile Caps	35	3.53 % A101102		5	01/04/18	30/09/18	336.60	11.781.00	0.00	10.68487	2.10000	0.00	0.00 %	0.00 %	
01.02.300C	Exterior Walls	1084	0.20 % A101101		5	01/04/18	30/09/18	85.70	92.898.80	0.00	0.00	460.00	0.00	0.00 %	0.00 %	
01.02.301	Foundations Bases	0	69.09 %		4	01/04/18	30/09/18	0.00	935.768.10	0.00	1.516.51243	385.0000	0.00	0.00 %	0.00 %	
01.02.301A	Isolated Footings	175	0.00 % A101207		5	01/04/18	30/09/18	910.00	160.650.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	
01.02.301B	Grade Beams	73	11.46 % A101202		5	01/04/18	30/09/18	979.20	171.460.00	0.00	117.86400	100.0000	0.00	0.00 %	0.00 %	
01.02.301C	Foundations drainage	175	11.55 % A101103		5	01/04/18	30/09/18	979.20	171.360.00	0.00	144.62150	75.0000	0.00	0.00 %	0.00 %	
01.02.301D	Insulations	55	10.45 % A102202		5	01/04/18	30/09/18	1.101.80	60.580.00	0.00	123.79190	75.0000	0.00	0.00 %	0.00 %	
01.02.301E	Castlesies	53	01.2 % A102205		5	01/04/18	30/09/18	1.101.80	58.36400	0.00	2.385.00	0.00	0.00	0.00 %	0.00 %	
01.02.301F	Shield	7987	0.00 % A102302		5	01/04/18	30/09/18	1.003.70	7.924.218.90	0.00	0.00	0.00	0.00	0.00 %	0.00 %	
01.02.301FOTIS	#####	55	0.00 %		5	01/04/18	30/09/18	1.101.80	60.580.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	
01.02.301H	#####	183	32.41 % A101202		5	01/04/18	30/09/18	1.101.80	201.192.80	0.00	348.83000	67.0000	0.00	0.00 %	0.00 %	
01.02.301J	Columns	250	34.00 % A101102		5	01/04/18	30/09/18	1.224.00	306.000.00	0.00	579.00000	67.0000	0.00	0.00 %	0.00 %	
01.02.301K	Anchor Wash - Broad Excavation	23	0.00 % A101203		5	01/04/18	30/09/18	1.224.00	35.460.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	
01.02.301L	Backfilling - Soil Compaction	60	0.00 % A102102		5	01/04/18	30/09/18	61.20	5.508.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	
01.02.344	CEMENT-BASED SCREED	0	0.06 %		4	01/04/18	30/09/18	0.00	23.336.00	0.00	1.80000	0.00	0.00	0.00 %	0.00 %	
01.02.344A	Floors	1306	100.00 % A201201		5	01/04/18	30/09/18	24.90	31.997.00	0.00	1.800.00	0.00	0.00	0.00 %	0.00 %	
01.02.344C	Floors	22	0.00 % C103204		5	01/04/18	30/09/18	24.90	539.00	0.00	0.00	0.00	0.00	0.00 %	0.00 %	

The same can be done using Smart Links. Please refer to the 0101 Tendering manual for more information.

3.2 SubContractors

To assign cost codes in the subcontractors module, the user must open either the **subcontractor certificate transactions** (found in “Subcontractor Contracts and Certificates” or “Subcontractors Contract Certificates”) or the **subcontractor contract** (found in “Subcontractor Contracts”) and assign a cost code to each transaction

3.2.1 Contracts

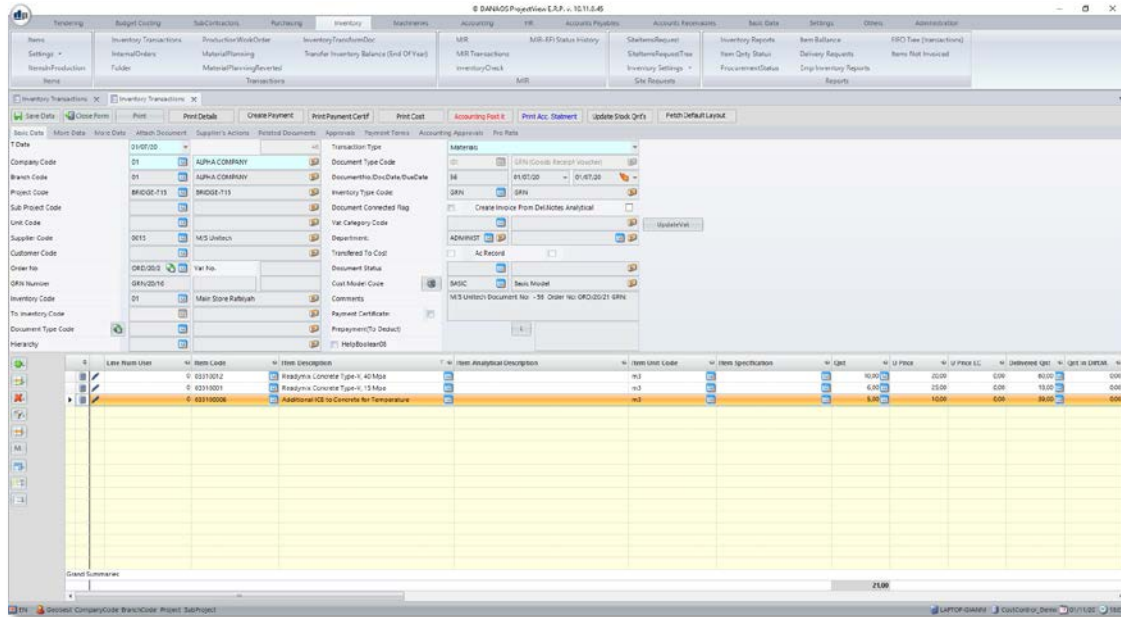
Item Code	Item Analytical Description	Qty	U Price	Total Amount	BOM Item	Item Unit Code	Cost Model Code	Cost Model Description
31221401		200.000	15.00	3000.00		m3	BASIC	Basic Model
31221402		70.000	20.00	1400.00		m3	BASIC	Basic Model
31221403		300.000	18.00	5400.00		m3	BASIC	Basic Model
31221404		1.000.000	20.00	20000.00		m3	BASIC	Basic Model

3.2.2 Certificates

Item Code	Item Description	Item Analytical Description	Item Unit Code	Qty	U Price	Amount Unit	Prev Amount	Amount Code	Total Amount
0102		SITE CONSTRUCTION		2.000	0.00	0.00	0.00	0.00	0.00
0102.300		EXCAVATION		1.000	0.00	0.00	1.000	0.00	0.00
0102.300A		Rein Foundations		7.000	0.00	0.00	27.000	100.00	70.000
0102.300B		Reinforced Floorings		0.000	0.00	0.00	10.000	70.00	70.000
0102.300D		FILLING		0.000	0.00	0.00	5.000	90.00	45.000

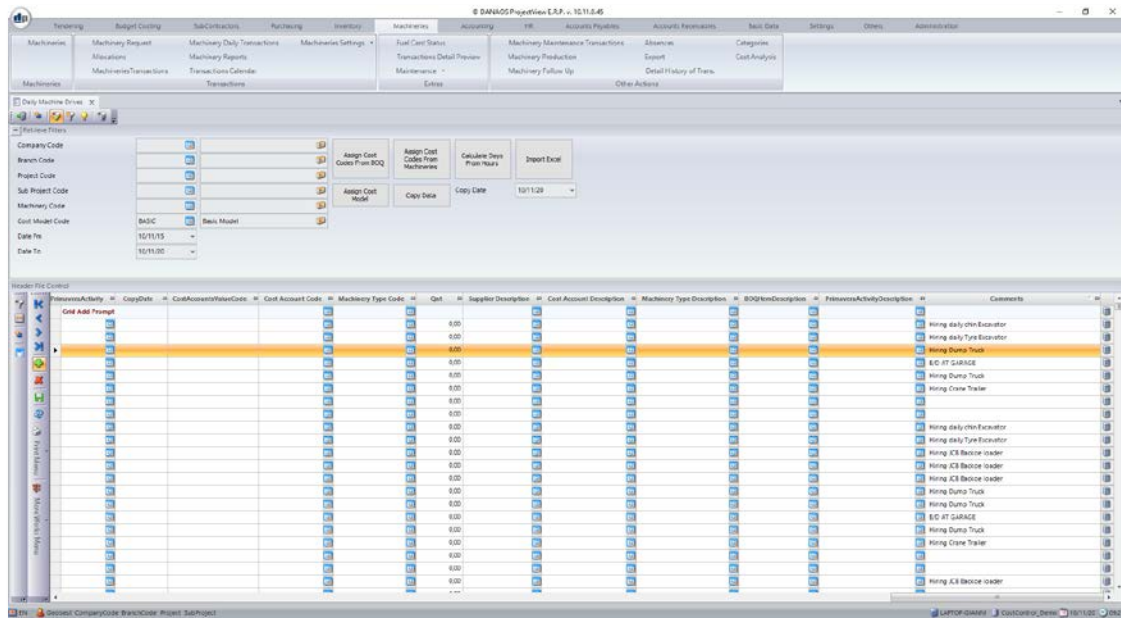
3.3 Inventory

To assign cost codes in the inventory module, the user must open the inventory transactions and assign a cost code to each transaction.



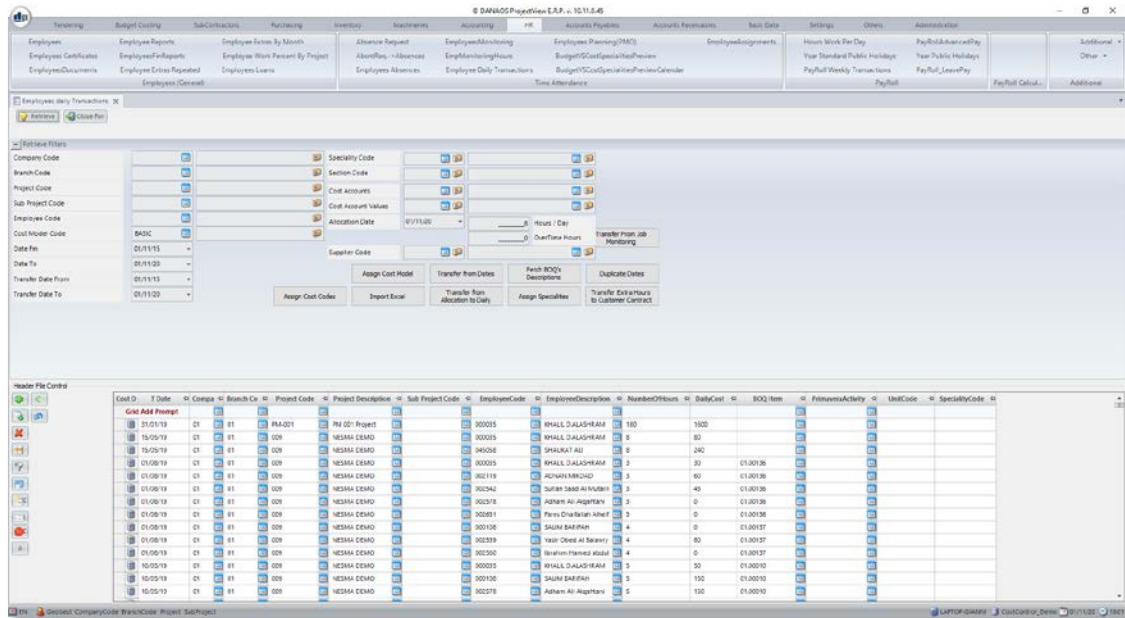
3.4 Machinery

To assign cost codes in the machinery module, the user must open the machinery daily transactions and assign a cost code to each transaction.



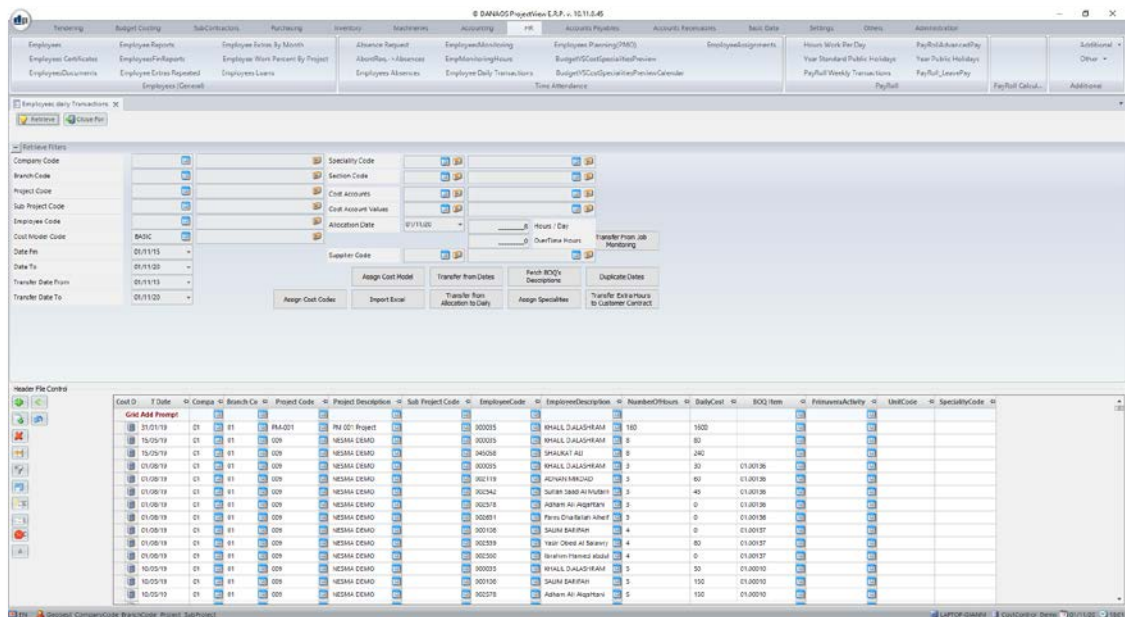
3.5 HR

To assign cost codes in the HR module, the user must open the employee daily transactions and assign a cost code to each transaction.



3.6 Accounting

To assign cost codes in the accounting module, the user must open an asset and assign a cost code to it.



4 Budget vs Cost

ProjectVIEW allows the comparison between the budgeted cost and the actual cost. To view this comparison, the user must open a cost budget and click on the “Budget / Cost” button. This will display the following grid:

Cost Code	Cost Description	General Expense	Material	Labor	Plant	SubContractors	Tools	Scaffolding	Amount08	Amount09	Target Amount	Total Amount
339		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A1	Substructure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,400.00	2,400.00
A101	Foundations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A1012	Special Foundations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A101202	Grade Beams	0.00	44,435,573.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44,435,573.60
A101203	Columns	0.00	789,211.74	314.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	789,525.74
A101203	Columns	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A102	Basement Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A1023	Slab on Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A102302	Structural Slab on Grade	0.00	862,972.16	948.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	863,920.16
A102302	Structural Slab on Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E1	Exterior Enclosure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E101	Exterior Walls	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E1012	Special Wall Elements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E101201	BlockWorks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E101201	BlockWorks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G1	Sitework	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101	Sitework - Building Related	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,400.00	2,400.00
G1011	Site Preparation & Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G101102	Site Demolition and Relocations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,400.00	2,400.00
G101102	Site Demolition and Relocations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,400.00	2,400.00

This grid displays all cost codes twice:

- ✓ the first line displays the cost in the original budget
- ✓ the second line displays the actual cost

Whenever the actual cost is more than the budgeted one, that cost will be highlighted in red, making it easy to identify.

4.1 Per month

The user can also review the comparison analyzed per month. To so, the user must navigate to:

“Budget Costing” > “Budgets” > “Budget Reports on Screen” > “Budget Vs Cost Preview”

After providing the appropriate parameters (Company Code, Branch Code, Project Code and Budget), the grid will be populated as described above. The only difference is that instead of cost categories, the columns are now comprised of the months the project has data in:

The screenshot shows the 'Budget VS Cost' report in ProjectVIEW ERP. The interface includes a menu bar at the top with options like 'Tendering', 'Budget Costing', 'SubContractors', etc. Below the menu is a toolbar with 'Refresh', 'Filter', 'Column Chooser', and 'Export to Excel'. A filter section on the left allows selection of Company Code (01 ALPHA COMPANY), Branch Code (01 ALPHA COMPANY), Project Code (500 Project 500), and Unit Code. The main grid displays columns for months from 01/01/18 to 12/31/18 and rows for various construction items. The grid shows numerical values for each month, with some cells highlighted in red to indicate variances or specific data points.

Code	Description	Start	End	Total Amount	01/01/18	02/01/18	03/01/18	04/01/18	05/01/18	06/01/18	07/01/18	08/01/18	09/01/18	10/01/18	11/01/18	12/31/18
01	Foundations	01/01/18	30/11/18	4,987,966.11	4,987,966.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/01/18	30/11/18	1,931,443.57	1,931,443.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/11/18	1,097,229.37	0.00	0.00	0.00	0.00	0.00	130,945.08	139,875.79	135,460.44	139,875.79	135,460.44	139,875.79	135,460.44
01	Foundations	01/04/18	30/06/18	460.50	460.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/11/18	1,471,445.07	1,471,445.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/06/18	409.50	409.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/11/18	1,061,935.57	1,061,935.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/11/18	1,470.00	1,470.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/06/18	219,621.50	219,621.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/11/18	409.50	409.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/11/18	834,214.00	834,214.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/06/18	2,470.00	2,470.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/06/18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/11/18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/04/18	30/11/18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/01/18	30/06/18	276,376.90	276,376.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/01/18	30/06/18	10,630.00	10,630.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/01/18	30/06/18	75,200.00	75,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/01/18	31/03/18	51,200.00	51,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/01/18	30/05/18	22,348.00	22,348.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	Foundations	01/01/18	30/05/18	24,000.00	24,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4.2 Using KPIs

The user can also review the comparison analyzed per month. To so, the user must navigate to:

“Budget Costing” > “Budgets” > “Budget Reports on Screen” > “Budget Vs Cost Calculations”

After providing the appropriate parameters (Company Code, Branch Code, Project Code and Budget), the grid will be populated as described above. The only difference is that instead of cost categories, the columns are now comprised of KPIs:

Levels	ProjectCode	DateFrom	DateTo	CostCode	CostDescription	BCWS %	BCWP %	ACWP Amount	BCWP % (Est)	BCWP (Est + Inv) Amount	ACWP (Inv) Amount	ACWP (Est) Amount	ACWP Amount	BCWP Total %
2.00	BRIDGE-T15	01/12/19	23/05/20	A1	Substructure	100.00	416.5120	15.79	340.8038	3.41	25.7800	25.8000	20.00	68.8138
3.00	BRIDGE-T15	01/12/19	11/03/20	A101	Foundations	100.00	415.78749	15.79	344.51299	3.46	25.7800	25.8000	200.00	43.7900
4.00	BRIDGE-T15	01/12/19	11/03/20	A1011	Standard Foundations	100.00	65.77401	50.39	33.41125	39.19	25.7800	25.8000	200.00	24.6200
5.00	BRIDGE-T15	01/12/19	16/01/20	A101102	Column Foundations	100.00	82.89961	50.32	26.60545	48.73	25.7800	25.8000	200.00	24.6200
5.00	BRIDGE-T15	01/03/20	11/03/20	A101103	Perimeter Drainag...	100.00	12.87440	50.65	6.52080	0.00	0.00	0.00	0.00	50.65
4.00	BRIDGE-T15	11/01/20	11/02/20	A1012	Special Foundations	100.00	790.01340	79.84	313.39195	0.00	0.00	0.00	0.00	39.0600
5.00	BRIDGE-T15	20/01/20	11/02/20	A101202	Grade Beams	100.00	52.95694	40.74	31.20538	0.00	0.00	0.00	0.00	1.0200
5.00	BRIDGE-T15	11/01/20	27/01/20	A101206	Wall Foundations	100.00	337.85614	85.86	390.18275	0.00	0.00	0.00	0.00	35.0600
3.00	BRIDGE-T15	10/05/20	23/05/20	A102	Basement Construction	100.00	20.52760	80.14	16.45020	0.00	0.00	0.00	0.00	3.1100
4.00	BRIDGE-T15	10/05/20	23/05/20	A1021	Basement Excavation...	100.00	20.52760	80.14	16.45020	0.00	0.00	0.00	0.00	2.8100
5.00	BRIDGE-T15	10/05/20	23/05/20	A102102	Structure Backfill...	100.00	20.52760	80.14	16.45020	0.00	0.00	0.00	0.00	2.8100
2.00	BRIDGE-T15	24/05/20	19/08/20	A2	Superstructure	100.00	3.51732499	36.82	1.29564435	0.00	0.00	0.00	0.00	37.5500
3.00	BRIDGE-T15	24/05/20	19/08/20	A201	Superstructure	100.00	3.51732499	36.82	1.29564435	0.00	0.00	0.00	0.00	37.5500
4.00	BRIDGE-T15	17/06/20	31/07/20	A2011	Floor Construction	100.00	85.87600	30.00	25.74280	0.00	0.00	0.00	0.00	37.5500
5.00	BRIDGE-T15	17/06/20	31/07/20	A201101	Structural Frame	100.00	85.87600	30.00	25.74280	0.00	0.00	0.00	0.00	37.5500
4.00	BRIDGE-T15	15/08/20	19/08/20	A2013	Slab Construction	100.00	960.24816	40.00	224.09926	0.00	0.00	0.00	0.00	40.00
5.00	BRIDGE-T15	15/08/20	19/08/20	A201305	Slab Membrane (in...	100.00	960.24816	40.00	224.09926	0.00	0.00	0.00	0.00	40.00
4.00	BRIDGE-T15	24/05/20	15/06/20	A2014	Special Superstructu...	100.00	2.87130083	36.52	1.04015166	0.00	0.00	0.00	0.00	36.52
5.00	BRIDGE-T15	24/05/20	15/06/20	A201401	Description of AD...	100.00	2.87130083	36.52	1.04015166	0.00	0.00	0.00	0.00	36.52
2.00	BRIDGE-T15	02/09/20	05/09/20	B1	Exterior Enclosure	100.00	504.40539	29.26	147.58989	0.00	0.00	0.00	0.00	29.26
3.00	BRIDGE-T15	19/08/20	05/09/20	B101	Exterior Walls	100.00	334.66880	28.24	94.49472	0.00	0.00	0.00	0.00	28.24
4.00	BRIDGE-T15	19/08/20	05/09/20	B1011	Exterior Wall Constra...	100.00	334.66880	28.24	94.49472	0.00	0.00	0.00	0.00	28.24
5.00	BRIDGE-T15	19/08/20	05/09/20	B101101	Exterior Wall Cons...	100.00	334.66880	28.24	94.49472	0.00	0.00	0.00	0.00	28.24
3.00	BRIDGE-T15	02/08/20	10/08/20	B102	Exterior Glazing & Dr...	100.00	156.80534	31.03	48.69414	0.00	0.00	0.00	0.00	31.03
4.00	BRIDGE-T15	02/08/20	10/08/20	B1021	Windows	100.00	156.80534	31.03	48.69414	0.00	0.00	0.00	0.00	31.03

Note

BCWS: Budget Cost Work Schedule

BCWP: Budget Cost Work Progress

ACWS: Actual Cost Work Schedule

ACWP: Actual Cost Work Progress

4.3 By Cost Code

The user can also review the comparison analyzed per month. To so, the user must navigate to:

“Budget Costing” > “Budget Tree” > “Budget Tree Actual Items”

After providing the appropriate parameters (Company Code, Branch Code, Project Code and Budget), the grid will be populated in a collapsible tree-like structure offering analysis per cost code and per item.

Items where the actual cost exceeds the budgeted one will be highlighted in red.

The screenshot displays the 'Budget Tree Actual Items' view in ProjectVIEW ERP. The interface includes a navigation menu at the top and a main workspace divided into a tree view on the left and a data grid on the right.

Tree View Structure:

- Project Code: BRIDGE-T15
- Cost Code: BRIDGE-T15 (Total: 85.2)
- Cost Code: AT (Substructure: 75.7)
- Cost Code: A101 (Foundations: 75.3)
- Cost Code: A1011 (Standard Foundations: 30.3)
- Cost Code: A101102 (Column Foundations & P...: 45.0)

Table View Data (Summary):

Cost Code	Cost Description	Budget Qty	Budget UPrice	Budget Amount	ResourceCode	ResourceDescription	Actual Qty	Actual Amount	Actual Total Price	Actual Consumption	Diff	DiffPercent
A101102	Column Foundations & P...	4.89	143.52	702.81	03130006	Timber for forms, 7 x 10	1.00	1,300.00	230.00	152.25	152.25	50.32
A101102	Column Foundations & P...	28.35	247.14	7,006.42	03130012	Readymix Concrete Type-V...	7.00	1,680.00	240.00	24.69	24.69	50.32
A101102	Column Foundations & P...	43.90	417	191.40	03230001	Galvanized Tie Wire 22 Gal...	2.00	8.00	4.00	4.36	4.36	50.32
A101102	Column Foundations & P...	65.70	223.78	14,702.35	03130001	Readymix Concrete Type-V...	0.00	0.00	0.00	0.00	0.00	50.32
A101102	Column Foundations & P...	70.80	10.07	712.95	03130006	Asphalt/ICB to Concrete L...	0.00	0.00	0.00	0.00	0.00	50.32
A101102	Column Foundations & P...	121.90	5.02	608.93	0311133	Rebarwork or Formwork-Sch...	0.00	0.00	0.00	0.00	0.00	50.32
A101102	Column Foundations & P...	122.47	1.61	197.18	03100001	Nails, Nails etc.	0.00	0.00	0.00	0.00	0.00	50.32
A101102	Column Foundations & P...	122.58	7.33	898.51	03100006	Plywood for forms, 7 x 10	20.00	140.00	7.00	16.32	16.32	50.32
A101102	Column Foundations & P...	128.09	1.51	190.40	03100002	Chain spacers	0.00	0.00	0.00	0.00	0.00	50.32
A101102	Column Foundations & P...	133.90	20.00	3,078.00	CP		0.00	0.00	0.00	0.00	0.00	50.32
A101102	Column Foundations & P...	307.33	20.00	6,150.60	CE		0.00	0.00	0.00	0.00	0.00	50.32
A101102	Column Foundations & P...	510.15	20.00	10,203.00	CIVLAB		0.00	0.00	0.00	0.00	0.00	50.32
A101102	Column Foundations & P...	580.58	1.01	584.96	033900	Concrete Curing	0.00	0.00	0.00	0.00	0.00	50.32
A101102	Column Foundations & P...	1,412.24	0.00	0.00	0000		0.00	0.00	0.00	0.00	0.00	50.32
A101102	Column Foundations & P...	2,892.21	2.87	1,892.20	032100	Reinforcement Bars	0.00	0.00	0.00	0.00	0.00	50.32

4.4 By Item

The user can also review the comparison analyzed per month. To so, the user must navigate to:

“Budget Costing” > “Budget Tree” > “Actual Items Reverted”

After providing the appropriate parameters (Company Code, Branch Code, Project Code and Budget), the grid will be populated in a collapsible tree-like structure offering analysis per item and per cost code.

Cost Codes where the actual cost exceeds the budgeted one will be highlighted in red.

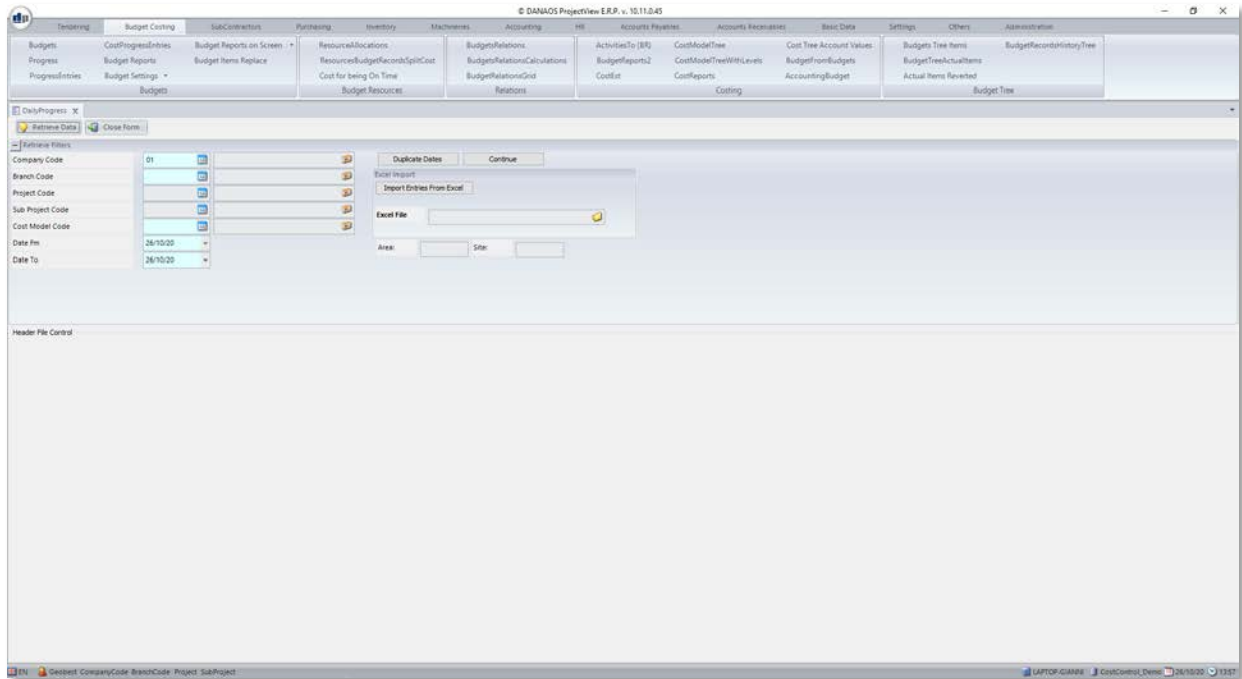
The screenshot shows the 'Budget Tree Actual Items Reverted' window in ProjectVIEW ERP. The window title is '© DANAOS ProjectView ERP v. 10.11.0.45'. The interface includes a menu bar with options like 'Timersing', 'Budget Costing', 'SubContractors', 'Purchasing', 'Inventory', 'Attachments', 'Accounting', 'HR', 'Accounts Payables', 'Accounts Receivables', 'Basic Data', 'Settings', 'Others', and 'Administration'. Below the menu bar, there are several sub-menus and buttons. The main area contains a form for selecting parameters: Company Code (01 - ALPHA COMPANY), Branch Code (01 - ALPHA COMPANY), Project Code (900 - Project 900), SubProject Code, and Budget (900-1 - Cost Budget). Below the form is a table with columns: ResourceCode, ResourceDescription, Budget, Amount, UPrice, and a red-highlighted Actual column. The table shows a tree structure of resources, with 'Timber for forms, 7 x Use' expanded to show a list of cost codes. The 'Actual' column for these cost codes is highlighted in red, indicating that the actual cost exceeds the budgeted amount.

ResourceCode	ResourceDescription	Budget	Amount	UPrice	Actual
03110005	Plywood for forms, 2 x Use	2,272.00	60,220.28	26.51	
03110006	Plywood for forms, 7 x Use	1,700.00	46,458.00	27.33	
03110007	Timber for forms, 2 x Use	1,700.00	143,000.00	84.29	
03110008	Timber for forms, 7 x Use	1,700.00	73,572.00	43.28	
A101102	Column Foundations & Pile Caps	800.00	37.05	29,643.00	0.00
A101103	Perimeter Drainage & Insulation	50.00	142.86	7,143.00	0.00
A102302	Grade Beams	800.00	37.05	29,643.00	0.00
A102302	Moisture Protection	50.00	142.86	7,143.00	0.00
A102305	Under Slab Drainage & Insulation	0.00	0.00	0.00	0.00
B102203	Revolving Doors	0.00	0.00	0.00	0.00
031113001	Tie Rod 16mm T, length 6.0 meter	1,700.00	46,000.00	27.06	
0311133	Fabricwork or Formwork-Scaffolding	1,700.00	47,000.00	27.65	
031513	Waterstops	324.00	23,937.00	74.19	
031516001	Hy-Fib Metal Lath for Construction Joints Spunnet...	1,700.00	54,000.00	31.76	
032100	Reinforcement Bars	5,168.00	102,391.76	19.81	
032200	Fabric and Grid Reinforcing	1,700.00	45,572.00	26.81	
032300001	Galvanized Tie Wire 22 Gauge Flexible	1,700.00	45,000.00	26.47	
03203001	Concrete Lath for block work	11.78	294.83	25.00	
03203002	Concrete tie beams for block work	3,686.00	92,150.00	25.00	
03203003	Concrete tie columns for block work	3,686.00	92,150.00	25.00	
031100005	Stationary Pumps & Extension Pipes	1,548.00	34,898.00	22.57	
031100006	Additional ICE to Concrete for Temperature	1,700.00	47,000.00	27.65	
03110001	Readymix Concrete Type-V, 19 Mpa	824.00	13,148.00	15.96	
031100013	Readymix Concrete Type-I, 35 Mpa - 81M3	1,700.00	107,000.00	62.94	
03110004	Readymix Concrete Type-I, 20 Mpa	1,700.00	89,400.00	52.59	
03110005	Readymix Concrete Type-I, 24 Mpa	1,700.00	90,800.00	53.41	
03110011	Readymix Concrete Type-I, 40 Mpa	1,700.00	92,800.00	54.57	

5 Daily Progress

To view the daily progress entries, the user has to navigate to:

“Budget Costing” > “Budgets” > “Progress Entries”



After providing the appropriate parameters, the following screen will be displayed:

The screenshot displays the 'Projects Progress File' table. The table has the following columns: Company C, Branch Code, Project Code, T Date, Qty, Qty_Certif, Approved, BOQItem, BOQItemDescription, RFI, Select orRFI, Select orRFIDate, Select For Certif, BOQRef, and RFI. The table contains multiple rows of data, including a 'Grand Add Prompt' row and a 'Grand Summaries' row at the bottom showing a total of 577,000.

Company C	Branch Code	Project Code	T Date	Qty	Qty_Certif	Approved	BOQItem	BOQItemDescription	RFI	Select orRFI	Select orRFIDate	Select For Certif	BOQRef	RFI
01	02	1000	01/10/2020	10	0	✓	01.01.01.A	Allowance for remove	✓	✓	07/10/2020			
01	02	1000	02/10/2020	20	0	✓	01.01.01.A	Allowance for remove	✓	✓	07/10/2020			
01	02	1000	03/10/2020	11	0	✓	01.01.01.A	Allowance for remove	✓	✓	07/10/2020			
01	02	1000	04/10/2020	12	0	✓	01.01.01.A	Allowance for remove	✓	✓	07/10/2020			
01	02	1000	05/10/2020	9	0	✓	01.01.01.A	Allowance for remove	✓	✓	07/10/2020			
01	02	1000	06/10/2020	14	0	✓	01.01.01.A	Allowance for remove	✓	✓	07/10/2020			
01	02	1000	01/10/2020	20	0	✓	01.01.01.B	Allowance for structu	✓	✓	07/10/2020			
01	02	1000	02/10/2020	21	0	✓	01.01.01.B	Allowance for structu	✓	✓	07/10/2020			
01	02	1000	03/10/2020	15	0	✓	01.01.01.B	Allowance for structu	✓	✓	07/10/2020			
01	02	1000	04/10/2020	12	0	✓	01.01.01.B	Allowance for structu	✓	✓	07/10/2020			
01	02	1000	05/10/2020	10	0	✓	01.01.01.B	Allowance for structu	✓	✓	07/10/2020			
01	02	1000	06/10/2020	17	0	✓	01.01.01.B	Allowance for structu	✓	✓	07/10/2020			
01	02	1000	01/10/2020	60	0	✓	02.01.01.C	To LEWS deck slabs:f	✓	✓	08/10/2020			
01	02	1000	02/10/2020	17	0	✓	02.01.01.C	To LEWS deck slabs:f	✓	✓	08/10/2020			
01	02	1000	03/10/2020	21	0	✓	02.01.01.C	To LEWS deck slabs:f	✓	✓	08/10/2020			
01	02	1000	04/10/2020	11	0	✓	02.01.01.C	To LEWS deck slabs:f	✓	✓	08/10/2020			
01	02	1000	01/10/2020	4	0	✓	02.01.02.D	A-252 mesh to 100 m	✓	✓				
01	02	1000	02/10/2020	20	0	✓	02.01.02.D	A-252 mesh to 100 m	✓	✓				
01	02	1000	04/10/2020	6	0	✓	02.01.02.D	A-252 mesh to 100 m	✓	✓				
01	02	1000	05/10/2020	7	0	✓	02.01.02.D	A-252 mesh to 100 m	✓	✓				
01	02	1000	06/10/2020	14	0	✓	02.01.02.D	A-252 mesh to 100 m	✓	✓				
01	02	1000	07/10/2020	8	0	✓	02.01.02.D	A-252 mesh to 100 m	✓	✓				
01	02	1000	05/10/2020	40	0	✓	02.02.E	Polystyrene geofoam	✓	✓				
01	02	1000	06/10/2020	30	0	✓	02.02.E	Polystyrene geofoam	✓	✓				
01	02	1000	07/10/2020	55	0	✓	02.02.E	Polystyrene geofoam	✓	✓				
Grand Summaries				577,000										

This screen allows the Cost Controller to check the daily progress quantity-wise.

ProjectVIEW's daily progress mechanism takes data from different sources (HR, Inventory etc). To update the budget, the user must open a cost budget and click on the "*Calculate Perc Done*" button.

6 Cost Budget Reports

To view all available reports, the user has to navigate to:

“Budget Costing” > “Budgets” > “Budget Reports”

This will display the following form:

The screenshot displays the 'Budget Reports' form in the ProjectVIEW ERP system. The interface includes a top navigation bar with various menu items like 'Budgeting', 'SubContractors', 'Purchasing', etc. The main form area is divided into several sections:

- Report Filters:** A grid of input fields for filtering reports by Company, Branch, Project, SubProject, Supplier, Item, and Budget. It also includes date ranges (Date From, Date To), a Cost Model dropdown, and a Budget No. field.
- Report Selection and Run:** A section containing numerous radio button options for selecting a specific report type, such as 'Cost of All Projects', 'Total Status Report', 'Inventory Cost Check Report', 'Project Cost per Cost Codes and Job/Titles', etc.
- Action Buttons:** Buttons for 'Print Preview', 'Update Percent Done', 'Update Budget Reports from Cost Entries', and 'Update WFS Period Data'.

After providing the appropriate parameters the user can select a report and click on the *“Print Preview”* button to view it.

7 Appendix – Creating Cost Codes

To view/edit the cost codes in the system, the user must navigate to:

“Budget Costing” > “Budgets” > “Budget Settings” > “Cost Account Values”

Cost Account Code	Cost Account Description	Cost Accounts Value Code	Cost Accounts Value Description	Cost Accounts Value Description En	AcCode	AcDescription	IndirectFlag	SiteCost
LEVEL2	A1	A1	Substructure	Substructure			<input type="checkbox"/>	
LEVEL2	A2	A2	Superstructure	Superstructure			<input type="checkbox"/>	
LEVEL2	B1	B1	Exterior Enclosure	Exterior Enclosure			<input type="checkbox"/>	
LEVEL2	C1	C1	Interior Construction	Interior Construction			<input type="checkbox"/>	
LEVEL2	D1	D1	Conveyance Systems	/ Conveyance Systems			<input type="checkbox"/>	
LEVEL2	D2	D2	Mechanical	Mechanical			<input type="checkbox"/>	
LEVEL2	D3	D3	Fire Protection	Fire Protection			<input type="checkbox"/>	
LEVEL2	D4	D4	Electrical	Electrical			<input type="checkbox"/>	
LEVEL2	F1	F1	Equipment & Furnishings	Equipment & Furnishings			<input type="checkbox"/>	
LEVEL2	G1	G1	Special Construction, Demolition & Abatement	Special Construction, Demolition & Abatement			<input type="checkbox"/>	
LEVEL2	M1	M1	Sitework	Sitework			<input type="checkbox"/>	
LEVEL2	M2	M2	Departmental Expenses & Staff Salaries				<input type="checkbox"/>	
LEVEL2	N1	N1	H.O. General Expenses				<input type="checkbox"/>	
LEVEL2	N2	N2	General Construction Expenses	/ General Construction Expenses			<input type="checkbox"/>	
LEVEL2	N3	N3	Assessment				<input type="checkbox"/>	
LEVEL2	N4	N4	Subsoil Investigation				<input type="checkbox"/>	
LEVEL2	N5	N5	Material Testing				<input type="checkbox"/>	
LEVEL2	N6	N6	Temporary Facilities				<input type="checkbox"/>	
LEVEL2	N7	N7	Execution and Closeout Requirements				<input type="checkbox"/>	
LEVEL2	D1	D1	Non-Productive Days				<input type="checkbox"/>	
LEVEL2	D2	D2	Camp & Main Warehouse & Workshop				<input type="checkbox"/>	
LEVEL2	X1	X1	Rented Real Estate				<input type="checkbox"/>	
LEVEL2	X2	X2	DIRECT COST	DIRECT COST			<input type="checkbox"/>	
LEVEL2	X3	X3	EMPLOYEES COST	EMPLOYEES COST			<input type="checkbox"/>	
LEVEL3	A100	A100	RUNNING EXPENSES	RUNNING EXPENSES			<input type="checkbox"/>	
LEVEL3	A102	A102	Foundations	Substructure / Foundations			<input type="checkbox"/>	
LEVEL3	A201	A201	Basement Construction	Substructure / Basement Construction			<input type="checkbox"/>	
LEVEL3	B101	B101	Superstructure	Superstructure / Superstructure			<input type="checkbox"/>	
LEVEL3	B102	B102	Exterior Walls	Exterior Enclosure / Exterior Walls			<input type="checkbox"/>	
LEVEL3	B103	B103	Exterior Grazing & Doors	Exterior Enclosure / Exterior Grazing & Doors			<input type="checkbox"/>	
LEVEL3	C101	C101	Roofing	Exterior Enclosure / Roofing			<input type="checkbox"/>	
LEVEL3	C102	C102	Partitions, Doors & Specialties	Interior Construction / Partitions, Doors & Specialties			<input type="checkbox"/>	
LEVEL3	C103	C103	Access Platform Floors	Interior Construction / Access Platform Floors			<input type="checkbox"/>	
LEVEL3	D101	D101	Interior Finishes	Interior Construction / Interior Finishes			<input type="checkbox"/>	
LEVEL3	D101	D101	Conveyance Systems	/ Conveyance Systems / Conveyance Systems			<input type="checkbox"/>	

Cost Codes should have a “Cost Account Code” equal to “LEVEL2”, “LEVEL3” etc as well as a “Cost Accounts Value Description”.

Furthermore, if a cost code refers to an indirect code, the “Indirect Cost” flag ticked.



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