

AASHTOWare Project Estimation

Reference Price Tasks

Printable Companion Handout



What are Reference Price Tasks?

Reference Price Tasks can be used for Lump Sum pay items which need to be either a percentage of the total cost estimate or a percentage on top (i.e. in addition to the total construction cost).

Percent on Top calculates the sum of all of the non-reference unit prices and multiplies it by the percentage to get the unit price. So, the unit price will be $Reference = Sum * Percentage$

Percent Of takes the sum of all of the non-Percent-Of items (including Percent on Top) and treats it as less than 100% of the cost estimate. So, the unit price will be $Reference = \frac{Sum}{100 - Percentage}$.

The most common option that will be used is **Percent on Top**.

Below are typical INDOT pay items which will likely use reference prices (IDM 20-2.03):

Pay Item #	Pay Item Desc.	Percent on Top
105-06845	Construction Engineering	1%
110-01001	Mobilization & Demobilization	5%
201-52370	Clearing Right of Way	2%

How to insert a Reference Price Task

1. Navigate to the Item Pricing Worksheet
2. Click on the Blue Bars to the right of the unit price column in a respective pay item.
3. Click "Reference" in the pop-up menu.

4. In the Reference Price Task Summary component, press the New button

Indiana Department of Transportation

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Cost Estimate Items Item Pricing Worksheet Task Groups

Reference Price Task Summary

Cost Estimate: Test 1900051_07 Save ?

Item Information

Line	1	Quantity	1.000
Item	105-06845 CONSTRUCTION ENGINEERING	Unit of Measure	LS - LUMP SUM
Supplemental Description		Price	0.00000

Type search criteria or press Enter Advanced

New

0 added 0 marked for deletion 0 changed

No rows found matching criteria

5. A menu should appear after clicking New. Do the following:
 - a. Description: Insert a generic description (the relevant percentage and pay item works)
 - b. Percent on top: Insert the relevant percentage as a number (e.g. 2% = 2.00)
 - c. Active: Check the active box

Note: if a defined reference price is not set to "Active," it will not show in the estimate

New Collapse All 1 added 0 marked for deletion 0 changed

Price Task	Description	Active	Type	Task Unit Price
Price Task	2% CONSTRUCTION ENG	Yes		

Use Historical Price ☐

Reference Price

Amount

Percent of

Description 2% CONSTRUCTION ENG a

Item ID

Percent on top 2.00 b

Spec Book

Active ☒ c

Task Group

Begin typing to search or press Enter

6. Save using the Save button on the top
7. Navigate back to the Item Pricing Worksheet (see the Quick Link at the top of the page). Price Source should be listed as a Reference, and the price should reflect the relevant percentage of the rest of the cost estimate. This value will automatically update as the rest of the cost estimated as well.

Type search criteria or press Enter System Default Showing 2 of 2

Total Cost Estimate Items

102.00

Delete 0 added 0 marked for deletion 0 changed

Cat ID	Line	Item	Descr	Unit	Quantity	Unit Price	Price Source	Ext Amt	Supp Descr	Supp Rpt	Comments	Active
	1	105-06845	CONSTRUCTION ENGINEERING	LS	1.000	2.00000	Reference	2.00		No		Yes
	2	202-94954	BARRIER WALL, CONCRETE, REMOVE	LFT	100.000	1.00000	Ad Hoc	100.00		No		Yes

New Select Items...