

Detailed Engineer's Estimate and Total Project Costs- Cycle 5

Important: Read the Instructions in the first sheet (tab) before entering data. Do not enter data in shaded fields (with formulas).

Project Information:

Agency:		Date:	
Project Description:			
Project Location:			
Licensed Engineer in responsible charge of preparing or reviewing this PSR-Equivalent Cost Estimate:		License #:	

Engineer's Estimate and Cost Breakdown:

Engineer's Estimate (for Construction Items Only)						Cost Breakdown					
						ATP Eligible Costs/Items		ATP Ineligible Costs/Items		Corps/CCC to construct	
Item No.	Item	Quantity	Units	Unit Cost	Total Item Cost	%	\$	%	\$	%	\$
General Overhead-Related Construction Items											
1	Mobilization		LS					100%			
2	Traffic Control		LS					100%			
3	Stormwater Protection Plan		LS					100%			
4			LS					100%			
5								100%			
6								100%			
General Construction Items (non-decorative only)											
7								100%			
8								100%			
9								100%			
10								100%			
11								100%			
12								100%			
13								100%			
14								100%			
15								100%			
16								100%			
17								100%			
18								100%			
19								100%			
20								100%			
21								100%			
22								100%			
23								100%			
24								100%			
25								100%			
26								100%			
27								100%			
28								100%			
29								100%			
Subtotal of Construction Items:											
Construction Item Contingencies (% of Construction Items):											
Total (Construction Items & Contingencies) cost:											

Project Delivery Costs:

Type of Project Cost	Cost \$	ATP Eligible Costs	Non-participating Costs	
Preliminary Engineering (PE)				
Environmental Studies and Permits (PA&ED):				
Plans, Specifications and Estimates (PS&E):				"PE" costs / "CON" costs
Total PE:	\$ -			25% Max
Right of Way (RW)				
Right of Way Engineering:	\$ -			
Acquisitions and Utilities:	\$ -			
Total RW:	\$ -			
Construction Engineering (CE)				
Construction Engineering (CE):				"CE" costs / "CON" costs
Total Project Delivery:				15% Max
Total Construction Costs:				
Total Project Cost:				

Documentation of Ineligible (Non-Participating) Costs:

The Engineer's logic and/or calculations for splitting costs between ATP-Eligible and Non-participating costs must be documented in this section of the Estimate form. Separate logic is required for each construction item listed above which is partly ineligible for ATP funding or is required for the construction of an ineligible item/element of the project.

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Agency:		Date:	
Project Description:			
Project Location:			
Licensed Engineer in responsible charge of preparing or reviewing this PSR-Equivalent Cost Estimate:		License #:	
Item Number(s):	Description of Engineer's Logic: (See examples shown in the Instructions)		

Item Description- Common to ATP	Unit Pay
CLEARING AND GRUBBING (LS)	LS
CONSTRUCTION AREA SIGNS	LS
CONSTRUCTION SURVEY/STAKING	LS
DEVELOP WATER SUPPLY	LS
DUST CONTROL	LS
EROSION CONTROL	LS
FINISHING ROADWAY	LS
JOB SITE MANAGEMENT	LS
MITIGATION	LS
MOBILIZATION	LS
MOBILIZATION, DEMOBILIZATION, AND FINAL CLEANUP	LS
PERMITS	LS
PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS
PREPARE WATER POLLUTION CONTROL PROGRAM	LS
RAILROAD FLAGGING & MISCELLANEOUS	LS
RE OFFICE	LS
SIGNS	LS
STRIPING	LS
TRAFFIC CONTROL SYSTEM	LS
TRAFFIC MANAGEMENT PLAN	LS
Item Description- Not common to ATP	Unit Pay
ABANDON SEWER	LS
ADL BURIAL LOCATION REPORT	LS
ASBESTOS COMPLIANCE PLAN	LS
AUTOMATED WORK ZONE INFORMATION SYSTEM	LS
BOOSTER PUMP	LS
BRIDGE REMOVAL	LS
BUILDING WORK	LS
CAMERA SYSTEMS	LS
CERTIFY EXISTING BACKFLOW PREVENTERS	LS
CHANGEABLE MESSAGE SIGN SYSTEM	LS
CHECK AND TEST EXISTING IRRIGATION FACILITIES	LS
CLEAN AND PAINT BRIDGE RAILING	LS
CLEAN AND PAINT STEEL SOLDIER PILING	LS
CLEAN AND PAINT STRUCTURAL STEEL	LS
CLEAN AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LS
CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LS
CONTRACTOR-SUPPLIED BIOLOGIST (LS)	LS
CONTROL AND NEUTRAL CONDUCTORS	LS
CONTROL AND NEUTRAL CONDUCTORS (ARMOR-CLAD)	LS
DATA CORE	LS
DRAINAGE PUMPING EQUIPMENT	LS
DUST CONTROL PLAN (NATURALLY OCCURRING ASBESTOS)	LS
DUST PALLIATIVE	LS

ELECTRIC SERVICE FOR BOOSTER PUMP	LS
ELECTRIC SERVICE FOR IRRIGATION	LS
FIBER OPTIC CABLE SYSTEMS	LS
FISH PROTECTION	LS
FLASHING BEACON SYSTEM	LS
HEALTH AND SAFETY PLAN	LS
INDUCTIVE LOOP DETECTOR (LS)	LS
INTELLIGENT COMPACTION	LS
INTERCONNECTION CONDUIT AND CABLE (LS)	LS
INVASIVE SPECIES CONTROL	LS
IRRIGATION WATER SERVICE CHARGES	LS
JACKING SUPERSTRUCTURE	LS
LEAD COMPLIANCE PLAN	LS
LIGHTING SYSTEM-(Electroliers are a seperate item (EA))	LS
MAINTAIN EXISTING PLANTED AREAS	LS
MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS
MIX DESIGN (FULL DEPTH RECLAMATION-FOAMED ASPHALT)	LS
MIX DESIGN (FULL-DEPTH RECLAMATION-CEMENT)	LS
MOBILIZATION (MARINE ACCESS)	LS
MODIFY BRIDGE RAILING (LS)	LS
MODIFY PUMP PLANT	LS
MODIFYING EXISTING ELECTRICAL SYSTEM	LS
MONITOR WELL	LS
NATURAL RESOURCE PROTECTION PLAN	LS
NOA BURIAL LOCATION REPORT	LS
NOISE MONITORING	LS
OPERATE EXISTING IRRIGATION FACILITIES	LS
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LS
PERMANENT EROSION CONTROL ESTABLISHMENT WORK	LS
PLANT ESTABLISHMENT WORK	LS
PORTABLE CHANGEABLE MESSAGE SIGN (LS)	LS
PREPAVING INERTIAL PROFILER	LS
PRESTRESSING	LS
PRESTRESSING CAST-IN-PLACE CONCRETE	LS
PRESTRESSING PRECAST GIRDER	LS
PRESTRESSING STEEL GIRDERS	LS
PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS
PRUNE EXISTING PLANTS	LS
PUBLIC SAFETY PLAN	LS
PUMPING PLANT ELECTRICAL EQUIPMENT	LS
PUMPING PLANT EQUIPMENT	LS
RADAR SPEED FEEDBACK SIGN SYSTEMS	LS
RAMP METERING SYSTEM	LS
RECONSTRUCT DRAINAGE FACILITY (LS)	LS
RECONSTRUCT FENDER	LS
RECYCLED WATER IDENTIFICATION AND WARNING SIGNS	LS
REMOVE CONCRETE (LS)	LS
REMOVE CONCRETE (MISCELLANEOUS) (LS)	LS

REMOVE CONCRETE CURB (LS)	LS
REMOVE DOWNDRAIN (LS)	LS
REMOVE DRAINAGE FACILITY (LS)	LS
REMOVE IRRIGATION FACILITY	LS
REMOVE RAILING	LS
REMOVE REINFORCED CONCRETE BOX CULVERT (LS)	LS
REMOVE RETAINING WALL (LS)	LS
REMOVE RETAINING WALL (PORTION) (LS)	LS
REMOVE SIGN STRUCTURE (LS)	LS
REMOVE SIGN STRUCTURE WALKWAY (LS)	LS
REMOVE SLOPE PAVING (LS)	LS
REMOVE SOUND WALL (LS)	LS
REMOVING EXISTING ELECTRICAL SYSTEM	LS
ROADSIDE CLEARING	LS
SALVAGE IRRIGATION FACILITY	LS
SAMPLING AND ANALYSIS PLAN (NATURALLY OCCURRING ASBESTOS)	LS
SIGN ILLUMINATION SYSTEM	LS
STAIN GALVANIZED SURFACES (LS)	LS
STRAY CURRENT PROTECTION (BRIDGE)	LS
STREET SWEEPING	LS
TEMPORARY ACTIVE TREATMENT SYSTEM	LS
TEMPORARY CONCRETE WASHOUT	LS
TEMPORARY CONSTRUCTION MAT (LS)	LS
TEMPORARY CREEK DIVERSION SYSTEMS	LS
TEMPORARY DECKING	LS
TEMPORARY FLASHING BEACON	LS
TEMPORARY LIGHTING SYSTEM	LS
TEMPORARY PEDESTRIAN ACCESS ROUTE	LS
TEMPORARY SHORING	LS
TEMPORARY SIGNAL AND LIGHTING	LS
TEMPORARY SIGNAL SYSTEM	LS
TEMPORARY SUPPORT	LS
TIME-RELATED OVERHEAD (LS)	LS
TRAFFIC MONITORING STATION SYSTEM	LS
WATER METER CHARGES	LS
WATER SUPPLY SYSTEM	LS
WELL DEVELOPMENT	LS
WORK AREA MONITORING (BRIDGE)	LS

ATP - Application Instructions for Detailed Engineer's Estimate and Total Project Cost- Cycle 4

- Applicants are expected to use this template for estimating/documenting the cost of construction items and the overall project costs. (eligible & non-participating)
- The Detailed Engineer's Estimate and Total Project Costs must tie to the information presented in Part 1 - 8 of the ATP Application Form.
- **Do NOT input values in gray cells. These cells are formula-driven and will automatically update.**

Project (Engineer's) Information

- The Licensed Engineer in 'responsible charge' of the overall ATP application must review all information presented in this Estimate form and ensure the values are consistent with the corresponding plans included in the application. This requirement is considered necessary to ensure the ATP application meets the CTC's PSR-Equivalent requirement - including the use of construction items, quantities and unit prices that meeting industry standards for PSR-Equivalents. The engineer is also expected to review the breakdown of eligible vs. ineligible (non-participating) costs shown in estimate and confirm they are consistent with the ATP Guidelines.

Engineer's Estimate & Cost Breakdown

For each construction item in this table, the following items must be filled:

Item: indicate the name of a construction item used in this project.

Quantity: indicate the total quantity of each construction item

Units: indicate the units of measurement (i.e. Square Feet or SQFT.) **Only** use Lump Sum (LS) for items listed on the Allowable Lump Sum tab.

Unit Cost: indicate the unit cost for one quantity.

Total Item Cost will be automatically calculated once the above information are provided for each line item (row).

If more rows are needed to account for more construction items than the standard form has rows for, applicants can add rows by clicking on the 'Add a line' button on the right side of the form. NOTE: Before clicking the button; 1) first click on the Excel row number above where you want to add the line and 2) if the "Add a line" button doesn't appear to work, you may need to "Enable Content" to allow the Excel-Macro to run to add the new line.

General Overhead:

Costs for these items have been separated out to reduce confusion relating to eligible vs. ineligible costs calculations.

The % of eligible vs. ineligible costs are automatically calculated based on the ratio of these costs for all of the other construction items.

Cost Breakdown See CTC ATP Guidelines for details on eligible and ineligible items.

ATP Eligible Items/costs: these are expected to represent all construction items that are ATP eligible.

% - Insert the percentage of the total item cost that is directly attributed to "ATP Eligible items".

§ - *This field will automatically calculate once a percentage is entered in the previous question.*

ATP Ineligible (non-participating) Items/costs: these are expected to represent all construction costs that are not ATP eligible. The % and costs are automatically calculated based on the "%" value the applicant entered for the eligible costs.

To be constructed by Corps/CCC: these are expected to include all items & costs that will be constructed by the Corps/CCC.

% - Insert the percentage of the total item cost that is directly attributed to "Corps/CCC to construct".

§ - *This field will automatically calculate once a percentage is entered in the previous question.*

Subtotals and Contingencies:

Subtotal of Construction Items:	This field will automatically calculate the total of all construction items indicated above.
Construction Item Contingencies:	Insert percentage of contingencies, which is intended to account for the cost of minor construction items not defined at the time the ATP applications are prepared.
Total (Construction Items & Contingencies) cost:	This field will automatically calculate the total from all information indicated above.

Project Delivery Costs: The eligible vs. ineligible split is automatically calculated for all Project Delivery Costs.

Environmental Studies and Permits(PA&ED):	Total cost of Environmental Studies and Permits phase of the project.
Plans, Specifications and Estimates (PS&E):	Total cost of Plans, Specifications and Estimates phase of the project.
Total PE:	This total is automatically calculated. Total of (PA&ED) + (PS&E) Note: Per the Caltrans Local Assistance Procedures Manual, the total cost for PE should not exceed 25%. All costs over the 25% must be shown in the application as non-participating.
Right of Way Engineering	Total cost of Right of Way Engineering, including obtaining the RW Certification.
Acquisitions and Utilities:	Total cost of Acquisitions and Utilities.
Total RW:	This total is automatically calculated. Total of (RW Eng.) + (Acq.&Utilities)
Construction Engineering (CE):	Total cost of Construction Engineering. Note: Per the Caltrans Local Assistance Procedures Manual, the total cost for CE should not exceed 15%. All costs over the 15% must be shown in the application as non-participating.
Total Project Delivery:	This total is automatically calculated. Total of (CE) + (Con. Item. & Contig.)

Total Construction Costs: The eligible vs. ineligible split is automatically calculated for these Costs.

- This is automatically calculated from all information entered above. This value is to be used in filling out the application form.

Total Project Cost Estimate: The eligible vs. ineligible split is automatically calculated for the Total Project Costs.

- This is automatically calculated from all information entered above.
- This value must represent the total estimated cost of the entire ATP project.
- The application must account for the ineligible (non-participating) costs being funded with local funds. Because this local funding is considered non-participating, it cannot be considered leveraging or matching funding.

Documentation of Ineligible (Non-Participating) Costs:

The following is an example of how Engineer's can present their logic and calculations for splitting the projects costs between eligible and ineligible (non-participating) costs.

Example #1 - Pavement Rehabilitation: The roadway paving and base repair needed for the roadway is within the limits of the new bike lanes and motorized lanes. The area within the physical limits of the new bike lanes is estimated to be 3'x300'=900' and the area outside these limits is estimated to be 10'x300'=3,000'. The ATP eligible reimbursement for all costs related to the Pavement Rehabilitation is calculated to be 900/(900+3000) = 23%. This split was used for Asphalt Concrete, Aggregate Base, and Excavation.