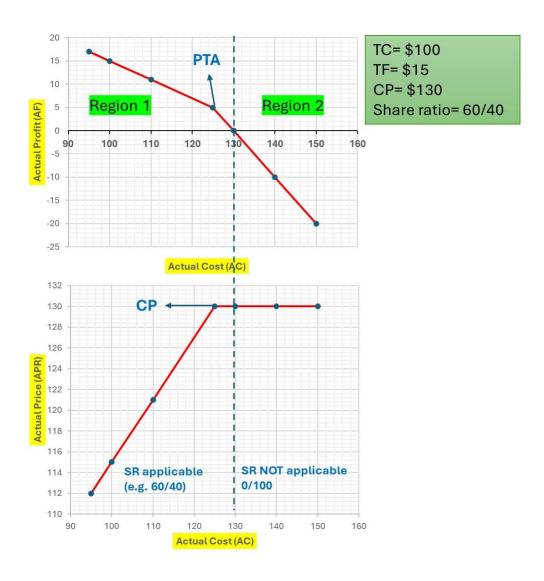
FPIF contract methodology

In FPIF type of contract, the customer agrees to share the saving/overrun with the contractor upon an agreement called Share Ratio (SR). But this agreement is only applicable up to a cost limit called Point of Assumption (PTA) cost. Having said that, the customer will not pay the contractor more than a price at PTA called Ceiling Price (CP). See the example diagram below:



We have two regions in the price vs. cost plot: **Region 1 (share ratio is applicable)** and **Region 2 (share ratio is NOT applicable 0/100)**, before and after PTA. Let's go through each region:

Region 1: AC can be greater/less than TC AND AC<PTA ->

1- Seller's Share of saving/overrun= (TC-AC)* SSR

In our current example:

- a. If AC= \$95 \rightarrow AC<TC \rightarrow Seller's share of saving= (100-95)*0.4= \$2
- b. If AC= $$100 \rightarrow AC=TC \rightarrow Seller$'s share= 0
- c. If AC= \$110 \rightarrow AC> TC \rightarrow Seller's share of overrun= (100-110)*0.4= -\$4
- d. If AC= $$125 \rightarrow AC>TC \& AC=PTA \rightarrow$

Seller's share of overrun= (TC-PTA)*0.4= (100-125)*0.4= - \$10

2- Actual Profit/ Fee (AF): AF= TF + (TC-AC)*SSR

OR AF= TF+ Seller's share of saving/overrun

In our current example: (refer the seller's share calculated above)

- a. AF= 15 + 2= \$17
- b. AF= 15+ 0= \$15 = TF
- c. AF = 15 + (-4) = \$11
- d. AF = 15 + (-10) = \$5

3- Actual Price (APR): APR= AC+ AF

In our current example: (refer the AF calculated above)

- a. APR= 95+17= \$112
- b. APR= 100+15= \$115 (Target Price)

- c. APR= 110+11= \$121
- d. APR= 125+5= \$130 = CP

Region 2: AC is greater than TC AND PTA ->

1- Seller's Share of overrun= (TC-PTA)* SSR+ (PTA-AC)

The first part of the formula is according to the overrun in Region 1 where the share ratio is applicable (e.g. 60/40 here), and the second part is according to the overrun in Region 2 where the share ratio (agreement) is NOT applicable and it is 0/100.

In our current example:

e. If AC= \$130
$$\rightarrow$$
 AC>TC & AC>PTA \rightarrow

Seller's share of overrun=

$$(TC-PTA) *0.4 + (PTA-AC) = (100-125) *0.4 + (125-130) = -10-5 = -$15$$

2- Actual Profit/ Fee (AF): AF= TF+ Seller's share of overrun (calculated above)

In our current example:

e.
$$AF = 15 + (-15) = $0 (NO Profit!)$$

3- Actual Price (APR): APR= AC+ AF = CP

In our current example: