## 第十章 作业

## 计算题

Suppose you are the seller，please calculate the unit price in USD（on the basis of CIFC5\％
Houston）according to the following information：
Port of shipment：Shanghai
Port of destination：Houston
Purchase Cost：CNY 80／piece
VAT Rate： $17 \%$
Drawback Rate：15\％
Quantity： 2000 pieces
Warehouse Charges：CNY 600
Certificate charges：CNY300
Domestic Transport Charges：CNY 500
Port charges：CNY 1000
Interest Rate：2．5\％year， 30 days on the basis of purchase cost
Banking Charges：advising charges CNY 200
Export freight：USD 0．5／piece
Export Premium：All Risks 0．8\％War Risks 0．3\％
Commission Rate：5\％on the basis of CIFC5\％
Profit rate： $10 \%$ on the basis of CIFC5\％
Exchange Rate：USD ：CNY $=1: 6.38 / 6.40$

## 答案：

I List the information
1．Quantity： 2000 pieces
2．Cost
Purchase Cost：CNY 80／pieces
VAT Rate： $17 \%$
Drawback Rate：15\％
3．Charges
1）Domestic charges
Warehouse Charges：CNY 600
Certificate charges：CNY300
Domestic Transport Charges：CNY 500
Port charges：CNY 1000
Interest Rate：2．5\％year， 30 days on the basis of purchase cost
Banking Charges：advising charges CNY 200
2）Export charges
Export freight：USD 0．5／piece
Export Premium：All Risks 0．8\％War Risks 0．3\％
Commission Rate：5\％on the basis of CIFC5\％
4．profit
Profit rate： $10 \%$ on the basis of CIFC5\％
5．Exchange rate
Exchange Rate：USD ：CNY $=1: 6.38 / 6.40$

## II Calculation

1. Cost

Actual Cost= Purchase cost-Drawback
$=$ Purchase cost-Purchase cost $\div(1+$ VAT Rate $) \times$ Drawback Rate
$=$ CNY $80-80 \div(1+17 \%) \times 15 \%$
=CNY80-10.2564
=CNY69.7436/piece
2. Charges

1) Domestic charges

Interest $=$ Amount $\times$ Interest Rate $\times$ Days $\div 360$
$=$ CNY $80 \times 2.5 \% \times 30 \div 360$
$=$ CNY0.1667/piece
$\therefore$ Domestic charges $=$ Warehouse charges + Certificate charges + Domestic transport charges+ Port charges+ Banking charges + Interest
$=\operatorname{CNY}(600+300+500+1000+200) \div 2000+0.1667$
= CNY1.3+0.1667
$=$ CNY1.4667/piece
2) Export charges
(1) Export freight $=$ USD0.5 $\times 6.38=$ CNY3.19 $/$ piece
(2) Export premium $=$ CIF $\times$ ( $1+$ insurance bonus rate $) \times$ premium rate

$$
\begin{aligned}
& =\text { CIFC } 5 \% \times(1+10 \%)(0.8 \%+0.3 \%) \\
& =\text { CIFC5 } 5 \times 1.21 \% / \text { piece }
\end{aligned}
$$

(3) Commission= commission-included price $\times$ commission rate

$$
=\text { CIFC5\% } \times 5 \% / \text { piece }
$$

Export charges $=$ Export freight + Export premium + Commission

$$
\begin{aligned}
& =\text { CNY3.19 }+ \text { CIFC } 5 \% \times 1.21 \%+\text { CIFC } 5 \% \times 5 \% \\
& =\text { CNY3.19 }+ \text { CIFC } 5 \% \times 6.21 \% / \text { piece }
\end{aligned}
$$

3. Profit= Quoted price $\times$ profit rate

$$
=\text { CIFC5 } \% \times 10 \% / \text { piece }
$$

$\therefore$ CIFC5\% $=$ Actual Cost + Charges + Profit
$=$ CNY $69.7436+$ CNY $1.4667+$ CNY3.19 + CIFC $5 \% \times 6.21 \%+$ CIFC $5 \times 10 \%$
$=$ CNY74.4003 + CIFC $5 \% \times 0.1621 /$ piece
CIFC5\%- CIFC5\% $\times 0.1621=$ CNY74.4003
CIFC5\% (1-0.1621) $=$ CNY74.4003
CIFC5\% = CNY74.4003 $\div(1-0.1621)$
CIFC5\% $=$ CNY74.4003 $\div 0.8379$
=CNY88.7938/piece
Covert CNY into USD:
CIFC5\% $=$ CNY88. $7938 \div 6.38$
$=$ USD13.92 $/$ piece
So the unit price is USD13.92/piece CIFC5\% Houston

