5. INSURANCE CLAIMS FOR LOSS OF STOCK AND LOSS OF PROFIT

ASSIGNMENT SOLUTIONS

PROBLEM NO: 1

In the books of M/S Kailash

Memorandum Trading Account from 1-4-2013 to 30-9-2013

| Particulars | | Amount Rs. | Particulars | Amount Rs. |
|--|----------------|---------------|-------------------------------------|---------------|
| To Opening Stock | | 1,20,000 | By sales A/c | 3,10,000 |
| To purchases A/c (WN 1) | | 2,17,500 | By Goods sent on consignment A/c | 18,000* |
| To wages A/c | 75,000 | | | |
| Less: wages for Installation of a machine | <u>(5,000)</u> | 70,000 | By closing stock (Bal.fig) | 1,41,500 |
| To gross profit (3,10,000 x 20%) | | 62,000 | | |
| | | 4,69,500 | | 4,69,500 |

* For financial statement purposes, this would form part of closing stock (since there is no sale). However, this has been shown separately for computation of claim for loss of stock since the goods were physically not with the concern and, hence, there was no loss of such stock.

STATEMENT OF CLAIM:

Stock as on date of fire = 1,41,500

(-) Salvaged stock = (27,000)

Actual loss of stock = 1,14,500

 $claim = \frac{Actual \ loss \ of \ stock}{stockon \ date \ of \ fire} x \ policy \ amount \ = \frac{1,14,500}{1,41,500} \ x \ 75,000 = \ Rs.60,689$

<u>Note</u>: The Stock on date of fire i.e. Rs.1,41,500 is more than policy amount. i.e. Rs.75,000.so, it is a case of under-insurance. Hence Average Clause is applicable.

WORKING NOTES: 1

Dr.

| Particulars | Amount (Rs.) |
|---|--------------|
| Purchases | 2,40,000 |
| Less: Goods taken for personal use at cost [25,000 - 20%] | (20,000) |
| Less: Free samples distributed at cost | (2,500) |
| Net amount of purchases | 2,17,500 |

PROBLEM NO: 2

In the books of Mr. Black

| Trading Account for the year ended 31-3-2014 |
|--|
|--|

Cr.

| Particulars | Amount Rs. | Particulars | Amount Rs. | |
|---------------------------|------------|--|------------|--|
| To opening stock A/c | 1,35,000 | By sales A/c | 9,00,000 | |
| To purchases A/c | 6,45,000 | By closing Stock A/c $\left[1,62,000 \times \frac{100}{90}\right]$ | 1,80,000 | |
| To Gross profit (Bal.fig) | 3,00,000 | | | |
| | 10,80,000 | | 10,80,000 | |

% of GP $\left[\frac{\text{GP}}{\text{sales}} \times 100\right] = \frac{3,00,000}{9,00,000} \times 100 = 33.33333\% \text{(or)} 1/3$

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Memorandum Trading Account from 01 - 04 - 2014 to 02 - 06 - 2014

| Particulars | | Amount (Rs.) | Particulars | | Amount (Rs.) |
|--------------------------------|---------------|-----------------|-----------------------------|-----------------|-----------------|
| To opening stock | | 1,80,000 | By sales A/c | 4,80,000 | |
| To purchases A/c | 2,25,000 | | (-) Goods not dispatched | <u>(75,000)</u> | 4,05,000 |
| (-) machinery purchases | (15,000) | | | | |
| (+) unrecorded purchases | <u>30,000</u> | 2,40,000 | By closing stock (Bal. fig) | | 1,50,000 |
| To Gross Profit 4,05,000 x 1/3 | | 1,35,000 | | | |
| | | 5,55,000 | | | 5,55,000 |

STATEMENT OF CLAIM:

| Stock on date of fire | = 1,50,000 |
|-----------------------|--------------|
| (-) Salvaged stock | _ |
| Actual Loss of stock | = 1,50,000 |

 $Claim = \frac{Actual \ loss of \ stock}{Stockon \ date \ of \ fire} \\ x policy \ Amount = \frac{1,50,000}{1,50,000} \\ x 1,20,000 = Rs.1,20,000$

<u>Note</u>: The stock on date of fire i.e. Rs.1,50,000 is more than policy amount i.e., Rs.1,20,000 so, it is a case of under - insurance, Hence average clause is applicable

PROBLEM NO: 3

In the books of Jay Associates

Memorandum Trading Account from 01 - 04 - 2011 to 30 - 06 - 2011

| Particulars | Normal item | Abnormal item | Total | Particulars | Normal item | Abnormal item | Total |
|--------------------------------------|----------------|------------------|-----------|--|----------------|------------------|-----------|
| To Opening stock | 2,00,000 | 20,000 | 2,20,000 | By sales A/c Less: returns [30,20,000 - 3,00,000] | 27,00,000 | 20,000 | 27,20,000 |
| To purchases A/c | 21,00,000 | - | 21,00,000 | By closing stock (Bal . fig) | 5,00,000 | - | 5,00,000 |
| To Gross Profit [27,00,000 x 1/3] | 9,00,000 | - | 9,00,000 | | | | |
| | 32,00,000 | 20,000 | 32,20,000 | | 32,00,000 | 20,000 | 32,20,000 |

STATEMENT OF CLAIM:

Stock on date of fire = 5,00,000

Less: Salvaged stock = (30,000)

Add: Fire Fighting Exp. = 30,000

Actual Loss = <u>5,00,000</u>

 $Claim = \frac{Actual \ Loss}{Stock \ on \ date \ of \ fire} \\ x \ policy = \frac{5,00,000}{5,00,000} \\ x \ 3,50,000 = Rs. \ 3,50,000$

<u>Note</u>: The Stock on date of fire i.e. 5,00,000 is more than policy amount, so it is a case of under insurance, hence average clause is applicable.

| Dr. In the books of Agni Ltd Trading Account for the year ended 31-03-10 | | | | | |
|--|------------|------------------|------------|--|--|
| Particulars | Amount Rs. | Particulars | Amount Rs. | | |
| To opening stock | 9,62,200 | By sales A/c | 52,00,000 | | |
| To purchases A/c | 45,25,000 | By closing stock | 13,27,200 | | |
| To gross profit (bal. fig) | 10,40,000 | | | | |
| | 65,27,200 | | 65,27,200 | | |

PROBLEM NO: 4

 $GP\% = \frac{Grossprofit}{sales} x100 = \frac{10,40,000}{52,00,000} x100 = 20\%$

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5.2

Memorandum Trading Account from 01 - 04 - 2010 to 22 - 01 - 2011

| Particulars | | Amount Rs. | Particulars | | Amount Rs. |
|--------------------------------------|------------|------------|--|-----------|------------|
| To opening stock | | 13,27,200 | By sales A/c | 49,17,000 | |
| To purchases A/c | 34,82,700 | | Add: Unrecorded misappropriated cash sales | 40,000 | 49,57,000 |
| Less: advertisement | (1,00,000) | 33,82,700 | By closing stock (b/f) | | 7,44,100 |
| To Gross profit (49,57,000 x 20%) | | 9,91,400 | | | |
| | | 57,01,100 | | | 57,01,100 |

Estimated stock in hand on the date of fire = Rs.7,44,100.

Working Note:

Cash sales defalcated by the Accountant:

| Defalcation period = 1.4.2010 to 18.8.2010 = 140 days | | |
|---|--------|--------------------|
| Since, 140 days / 7 weeks = 20 weeks | | |
| Therefore, amount of defalcation = 20 weeks × Rs. 2,000 |) = Rs | s . 40,000. |
| STATEMENT OF CLAIM: | | |
| Stock on date of fire | = | 7,44,100 |
| Less: salvaged stock actual loss of stock | = | |
| | | 7 4 4 4 9 9 |

<u>7,44,100</u>

Claim to be lodged with insurance company = 7,44,100.

PROBLEM NO: 5

Shri Ramesh

| D | r. |
|---|----|
| | |

Trading Account for 2014 (to determine the rate of gross profit)

| Ŭ | | • • • | • | |
|------------------------|----------|-----------------------------|--------|----------|
| Particulars | Amount | Particulars | Amount | Amount |
| To Opening Stock | 73,500 | By Sales A/c | | 4,87,000 |
| To Purchases | 3,98,000 | By Closing Stock: As valued | 79,600 | |
| To Gross Profit (b.f.) | 97,400 | Add: Amount written off to | | |
| | | restore stock to full cost | 2,300 | 81,900 |
| | 5,68,900 | | | 5,68,900 |

The (normal) rate of gross profit to sales is = $\frac{97,400}{4,87,000} \times 100 = 20\%$

Memorandum Trading Account up to 31 - 03 - 2015

| | Normal loss | Abnormal loss | Total | | Normal loss | Abnormal loss | Total |
|-----------------|-------------|---------------|----------|-------------------|-------------|---------------|----------|
| To Opening | | | | By Sales | 2,28,000 | 3,200 | 2,31,200 |
| Stock | 75,000 | 6,900* | 81,900 | By Loss | | 250 | 250 |
| To Purchases | 1,62,000 | | 1,62,000 | By Closing | | | |
| To Gross Profit | | | | Stock (bal. fig.) | 54,600 | 3,450** | 58,050 |
| (20% on | | | | | | | |
| Rs.2,28,000) | 45,600 | | 45,600 | | | | |
| , | 2,82,600 | 6,900 | 2,89,500 | | 2,82,600 | 6,900 | 2,89,500 |

* at cost, book value is Rs.4,600

** Book value will also be restored for remaining unsold abnormal stock since the remainder of this stock was now estimated to be worth its original cost.

| Calculation of Insurance Claim | | |
|------------------------------------|--|--|
| Value of Stock on March 31, 2015 | 58,050 | |
| Less: Salvage | <u>(5,800)</u> | |
| Loss of stock | <u>52,250</u> | |
| Claim subject to average clause: - | $\frac{\text{Amount of policy}}{\text{Value of stock}} \times \text{Actual loss of stock} =$ | $\frac{5,00,000}{58,050} \times 52,250 = 45,004$ |

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PROBLEM NO: 6

1. Calculation of short sales:

| | Amount |
|---|----------|
| Sales for the period 15.6.2010 to 15.12.2010 | 240,000 |
| Add: 25% increase in sales | 60,000 |
| Estimated sales in current year | 300,000 |
| Less: Actual sales from 15.6.2011 to 15.12.2011 | (70,000) |
| Short sales | 2,70,000 |

2. Calculation of gross profit:

 $Grossprofit = \frac{Net profit + Insureds tanding charges}{-} \times 100$ Turnover

 $\frac{80,000+70,000}{6.00,000} \times 100 = \frac{1,50,000}{6.00,000} \times 100 = 25\%$

3. Calculation of loss of profit: Rs. 2,30,000 x 25% = Rs.57,500

4. Calculation of claim for increased cost of working:

Least of the following:

i) Actual expense= Rs. 12,000

ii) Expenditure $\times \frac{Gross profit on adjusted turnoer}{Gross profit as above + uninsured standing charges}$

$$12,000 \times \frac{(25/100) \times 7,00,000}{[(25/100) \times 7,00,000] + 50,000} = 9,333 \, \text{approx}$$

Where,

| Adjusted turnover | Rs. |
|---------------------------------------|-----------------|
| Turnover from 16.06.2010 to15.06.2011 | 5,60,000 |
| Add: 25% increase | <u>1,40,000</u> |
| | <u>7,00,000</u> |

iii) Gross profit on sales generated due to additional expenditure = 25% x Rs. 70,000 = 17,500.

9,333 being the least, shall be the increased cost of workings.

5. Calculation of total loss of profit

| | Amount |
|--|--------|
| Loss of profit | 57,500 |
| Add: Increased cost of working | 9,333 |
| | 66,833 |
| Less: Saving in insured standing charges | 2,000 |
| | 64,833 |

6. Calculation of insurable amount:

Adjusted turnover x G.P. rate = Rs. 7,00,000 x 25% = Rs. 1,75,000

7. Total claim for consequential loss of profit:

 $\frac{\text{Insuredamount}}{\text{Insurable amount}} \times \text{Totalloss of profit} = \frac{1,40,000}{1,75,000} \times 64,833 = 51,866.40$

PROBLEM NO:7

(1) Rate of gross profit

Net profit for the last financial year + Insured standing charges $\times 100$ Turnover for the last financial year

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| $=\frac{1,\!20,\!000+2,\!40,\!000}{20,\!00,\!000}\!\times\!100$ | 18% |
|---|------------------|
| Add: Adjustment for increase in gross profit rate | <u>2%</u> 20% |

(2) Calculation of short sales:

| Particulars | Amount |
|---|----------|
| Turnover from 1.9.2009 to 1.3.2010 | 7,50,000 |
| Add: Adjustment for increase in turnover @ 10% | 75,000 |
| Adjusted turnover | 8,25,000 |
| Less: Actual turnover from 1.9.2010 to 1.3.2011 | 2,25,000 |
| Short sales | 600,000 |

(3) Additional expenses:

| Particulars | Amount |
|--|--------|
| i) Actual expenses | 40,000 |
| ii) Gross profit on sale generated by additional expenses [(20/100)x1,00,000] | 20,000 |
| $=\frac{\text{AdditionalExpxGPonAAT}}{\text{GPonAAT} + \text{uninsuredsandingcharges}} = 40,000 \times \frac{20\% \text{ on } 24,20,000}{20\% \text{ on } 24,20,000 + 20,000}$ | |

 $= 40,\!000 \times \frac{4,\!84,\!000}{5,\!04,\!000} = 38,\!413$

Least of the above three figures i.e. Rs. 20,000 is allowable.

* 22,00,000 x (110/100)

(4) Amount of claim before application of average clause

| Particulars | Amount (Rs.) |
|---|--------------|
| Gross profit on short sales (20% on Rs. 6,00,000) | 1,20,000 |
| Add: Allowable additional expenses | 20,000 |
| | 1,40,000 |
| Less: Saving in insured standing charges | 15,000 |
| | 1,25,000 |

(5) Application of average clause

| Particulars | Amount (Rs.) |
|---|--------------|
| Annual turnover i.e. turnover from 1.9.2009 to 31.8 2010 | 22,00,000 |
| Add: Adjustment for increase in turnover (10% of Rs. 22,00,000) | 2,20,000 |
| | 24,20,000 |
| Gross profit on annual adjusted turnover (20% on Rs. 24,20,000) | 4,84,000 |
| Loss of profit policy value | 3,63,000 |

Since the policy-value is less than gross profit on adjusted annual turnover, the average clause is applicable

Hence the amount of claim = Rs. 1,25,000 x (Rs. 3,63,000/ Rs.4,84,000) = Rs. 93,750

PROBLEM NO: 8

LOSS OF STOCK

Note: Given that due to rise in wages the applicable rate of GP is 28% [30%-2%]

In the books of S & M Itd

Memorandum Trading Account from 01 - 01 - 2015 to 30 - 04 - 2015

| Particulars | Amount Rs. | Particulars | Amount Rs. |
|------------------------|------------|-----------------------------|------------|
| To Opening Stock | 70,000 | By Sales | 2,40,000 |
| To Purchases | 1,00,000 | | |
| To Wages | 50,000 | By Closing Stock (Bal. Fig) | 83,200 |
| To Mfg. Exp | 36,000 | | |
| To GP [2,40,000 x 28%] | 67,200 | | |
| | 3,23,200 | | 3,23,200 |

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STATEMENT OF CLAIM:

| Stock on date of fire | = 83,200 |
|---------------------------|---|
| Less: salvaged stock | = - |
| Actual loss of stock | = 83,200 |
| Claim-Actualloss of stock | blicy amount = $\frac{83,200}{83,200}$ = 80000 = 80,000 |
| Stock on date of fire | 83,200 |

Note: The Stock on date of fire i.e. 83,200 is more than policy amount i.e., 80,000 so it is a case of under insurance hence average clause is applicable

Computation of GP% = $\frac{\text{Gross profit}}{\text{Sales}} \times 100 = \frac{2,40,000}{8,00,000} \times 100 = 30\%$

Loss of profit

| Standard turnover [01-05-14 To 31-08-14] | = xxx |
|--|--------------|
| (+/-)% downward/Downward trend | = <u>xxx</u> |
| Adj. Standard turnover (AST) | = xxx |
| (-) Actual Turnover [01-05-15 To 31-08-15] | = <u>xxx</u> |
| Short Sales | = <u>xxx</u> |
| | |

| NP for last year | = | 56,000 |
|-------------------------------|-----|----------|
| Add: Insured Standing Charges | = 1 | ,20,000 |
| Adj. NP | = 1 | 1,76,000 |

Adj. NP

$$GP\% = \frac{1,76,000}{8,00,000} \times 100 = 22\%$$

Note: Due to rise in wages, applicable rate of GP during 2015 is 20% [22% - 2%]

Step 2: Short Sales:

| Standard turnover [01-05-14 To 31-08-14] | = 3,60,000 |
|--|--------------------|
| Less: 20% downward trend in turnover (WN-1) | = (72,000) |
| AST | = 2,88,000 |
| Less: Actual Turn over [01-05-15 To 31-08-15] | = (60,000) |
| Short Sales | = 2,28,000 |
| Step 3: Loss of profit [short sales x GP%]: 2,28,0 | 000 x 20% = 45,600 |
| Step 4: Adjusted annual turnover: | |
| Turn over from 01-01-14 To 31-12-14 | = 8,00,000 |
| Less: T.O from 01-01-14 To 30-04-14 | = <u>3,00,000</u> |
| T.O from 01-05-14 To 31-12-14 (8 months) | = 5,00,000 |
| Add: T.O from 0-01-15 To 30-04-15 [4 months] | = <u>2,40,000</u> |
| | = 7,40,000 |
| Less: 20 % downward trend [5,00,000 x 20%] | = <u>1,00,000</u> |
| AAT | = <u>6,40,000</u> |
| Step 5: Gross profit on Adjusted annual turnover | [GP on AAT] |
| AAT x GP% (6,40,000 x 20%) = | 1,28,000 |
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Step 6: Admissible Additional Expenses

- a) Actual Additional Expenses incurred = 140,000
- b) Proportionate Additional Exp

 $=\frac{\text{AdditionalexpxGPonAAT}}{\text{GPonAAT}+\text{uninsured standing charges}} = \frac{1,40,000 \times 1,28,000}{1,28,000+20,000} = 1,21,081$

c) GP on Sales generated by additional Expenses [on additional turnover] 60,000 x 20% = 12,000

| <u>Step 7</u> : Gross claim | |
|-------------------------------------|-----------------|
| Loss of profit | = 45,600 |
| Add: Admissible Additional Expenses | = 12,000 |
| Less: Savings in standing charges | = |
| | = <u>57,600</u> |

<u>Step 8</u>: Since GP on AAT i.e., 1,28,000 is less than policy amount, it is not a case of under – insurance, hence average clause is not applicable

Net claim = Rs.57,600

Assumption: It is assumed that sales during dislocation period wholly are due to additional expenses.

WORKING NOTES:

Computation of upward/Downward Trend in turnover

| Turn over from 01-01-14 to 30-04-14 | | = | 3,00,000 |
|-------------------------------------|------|---|----------|
| Turn over from 01-01-15 To 30-04-15 | | = | 2,40,000 |
| Decrease | | = | 60,000 |
| 60,000 | 000/ | | |

% of Decrease $=\frac{00,000}{3,00,000}$ x100 = 20%

PROBLEM NO: 9

i) Calculation of % of Gross Profit

% of GrossProfit= $\frac{\text{Netprofit}+\text{StandingCharges}}{\text{LastYearTurnover}}x100 = [(67,500+1,14,750)/6,75,000]x100 = 27\%$

ii) Calculation of policy amount to cover loss of profit

| Particulars | Amount Rs. |
|---|------------|
| Turnover in the last financial year | 6,75,000 |
| Add: 30% increase in turnover | 2,02,500 |
| | 8,77,500 |
| Gross profit on increased turnover (8,77,500 x 27%) | 2,36,925 |
| Add: Additional standing charges* | 42,500 |
| Policy Amount | 2,79,425 |

 \therefore The trader should go in for a loss of profit policy of Rs.2,79,425

*Additional expenditure of Rs. 42,500 has been considered as standing charges and hence included in the policy amount.

PROBLEM NO: 10

In the books of M/s. Platinum Jewellers

Insurance policy to be taken

| Particulars | Amount Rs. | Amount Rs. |
|--|------------|-------------|
| Turnover of previous year | | 30,50,000 |
| Add: Increase in sales by 25% | | 7,62,500 |
| Sales for Current Year | | 38,12,500 |
| Less: Cost of materials (18,60,000 + 25% increase) | | (23,25,000) |

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| | | 14,87,500 |
|---|--------|------------|
| Less: Wages of Skilled Craftsmen(1,60,000 + 20% increase) | | (1,92,000) |
| Gross Profit for Current Year | | 12,95,500 |
| Add: Increased standing charges: | | |
| Interest on overdraft (2,00,000 x 12%) | 24,000 | |
| Salaries (2,80,000 x 10%) | 28,000 | 52,000 |
| Policy to be taken for current year 2015 | | 13,47,500 |

WORKING NOTE:

Calculation of Sales

| Dr. Trading and Profit and Loss account for the year ended 31.12.2014 | | Cr. | |
|---|------------|---------------------------------|------------|
| Particulars | Amount Rs. | Particulars | Amount Rs. |
| To Cost of material A/c | 18,60,000 | By Sales (Balancing figure) A/c | 30,50,000 |
| To Wages of skilled craftsman A/c | 1,60,000 | By Interest Income A/c | 44,000 |
| To Salaries A/c | 2,80,000 | | |
| To Audit Fees A/c | 40,000 | | |
| To Rent A/c | 64,000 | | |
| To Bank Charges A/c | 18,000 | | |
| To Net Profit | 6,72,000 | | |
| | 30,94,000 | | 30,94,000 |

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THE END