

SUGGESTED SOLUTION

IPCC NOVEMBER 2016 EXAM

FINANCIAL MANAGEMENT

Test Code - I N J1 1 0 0

BRANCH - (MULTIPLE) (Date : 10.07.2016)

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Answer-1 : Preparation of Financial Statements

Particulars		%	Rs.
Share capital			1,00,000
Other shareholders	unds	15%	30,000
5% Debentures		10%	20,000
Trade creditors		25%	<u>50,000</u>
Total		100%	2,00,000
Land and Buildings	= Rs. 80,000)	
Total Liabilities	= Total Asse	ets	
Rs. 2,00,000	= Total Asse	ets	
Fixed Assets	= 60% of To	otal Gross Fixed Assets and Current Assets	
	= Rs. 2,00,0	00 x60/100	
	= RS. 1,20,0	00	
Calculation of Addit	ons to Plant & Machinery		
Total Fixed Assets			Rs. 1 20 000
Less: Land and Build	na		80,000
Plant and Machinery	(after providing depreciation)	40,000
Depreciation on Ma	hinery up to 31-3-2013	,	15,000
Add: Further Depred	ation		<u>5,000</u>
Total			<u>20,000</u>
			(3 Marks
Current Assets =	Total Assets - Fixed Asse	ts	
= Calculation of Stock	Rs. 2,00,000-Rs. 1,20,000	= Rs. 80,000	
	Current Assets - Stock _ 1		
	Current Liabilities		
	Rs.80,000 - Stock		
=	=		
Rs. 50,000 =	Rs. 80,000 - Stock		
Stock =	Rs. 80,000 - Rs. 50,000		
=	Rs. 30,000		
Debtors =	4/5th of Quick Assets		
=	(Rs. 80,000 - 30,000) x 4/	5	
=	Rs. 40,000		(1 Mark
Debtors Turnover R	tio		
_	$40,000 \times 12 - 2$ months		
=	$\overline{\text{Credit Sales}} = 2 \text{ months}$		
2 Credit Sales =	4,80,000		
Credit Sales =	4,80,000/2		
	2,40,000		
Gross Profit (15% of	bales)		
KS. 2,40,000 X 15/10	J= KS. 30,UUU		(1 Mark
Return on Networth	(profit after tax)		\
Networth =	Rs. 1,00,000 + Rs. 30,000		
=	Rs.1,30,000		
Net Profit =	Rs.1,30,000 x 10/100 = Rs	.13,000	
Debenture Interest =	Rs.20,000 x 5/100 = Rs.1,0	000	/4
			(1 Mark

Projected Profit	and Loss Account for the ye	ear ended	31.03.2014	1		
	To Cost of Goods sold		2,04,000	By Sales	2,40,000	
	To Gross Profit		36,000			
			2,40,000		2,40,000	
	To Debenture Interest		1,000	By Gross Profit	36,000	
	To Administration & Other E	Expenses	22,000			
	To Net Profit		13,000			
			36,000		36,000	
_						(2 Marks)
		Ganesh	a Limited			
	Projected Bala	ance Shee	et as on 31 st	^t March, 2014		
Liabilities	Rs.	Asset	S		Rs.	Rs.
Share Capital	1,00,000	Fixed	Assets			
Profit and Loss A	/c. 30,000	Land	and Buildin	as		80,000
(17,000 + 13,000)	Plant	& Machine	ry	60,000	
5% Debentures	20,000	Less :	Depreciatio	on	20,000	40,000
Current Liabilitie	S	Curre	nt Assets :			
Trade Creditors	50,000	Stock			30,000	
		Debto	ors		40,000	
		Bank			<u>10,000</u>	80,000
Total	2,00,000	Total				2,00,000
$\Delta nswer_2(a)$						(4 Marks)
	Stat	tement of	Existing Pr	ofit		
S	Sales		, Rs	5. 10,00,000		
L	ess : Variable Cost			7,00,000		
(Contribution			3,00,000		
l	ess : Fixed Cost			2,00,000		
E	BIT			1,00,000		
L	ess : Interest @ 10% on 5,0.	0,000		50,000		
F	Profit before tax (PBT)			50,000		
						(2 Marks)
0	Contribution 3,00,00	0 ,				
Operating Levera	ige = 1000000000000000000000000000000000000	—=3)0				
		•				(1 Mark)
	FBIT 1 00 000					(Tritanty
Financial Leverag	$Je = \frac{2DT}{DPT} = \frac{1,00,000}{50,000} = 2$					
	PDI 30,000					
						(T Mark)
Combined Levera	$ade = \frac{Contribution}{2} = \frac{3,00,00}{2}$)0 —=6				
	PBT 50,000	0				
						(1 Mark)
	Statement of	f Sales ne	eded to dou	uble the EBIT		
Operating levera or EBIT. Thus, at existing one.	ge is 3 times i.e., 33-1/3% in the sales of Rs. 13,33,333, (ncrease in operating	sales volun profit or EE	ne cause a 100% i BIT will become R	increase in op s. 2,00,000 i.	perating profit e., double the
onioting offor		Verif	ication			
	Sales		Rs	5. 13,33,333		
	Variable Cos	st (70%)		9,33.333		
	Contribution	ו (ג <i>יייי</i>) ו		4,00.000		
	Fixed Costs			2,00.000		
	EBIT			2,00.000		

(1 Mark)

Answer-2 (b) :

The information regarding the operating leverage and financial leverage may be interpreted as follows–For Company A, the DFL is 3 : 1 (i.e., EBIT : PBT) and it means that out of EBIT of 3, the PBT is 1 and the remaining 2 is the interest component. Or, in other words, the EBIT : Interest is 3:2.

Similarly, for the operating leverage of 6:1 (i.e., Contribution : EBIT) for Company B, it means that out of Contribution of 6, the EBIT is 1 and the balance 5 is fixed costs. In other words, the Fixed costs: EBIT is 5:1. This information may be used to draw the statement of sales and profit for all the three firms as follows:

Statement of Operating Profit and Sales

Particulars	A	В	С
Financial leverage = (EBIT/PBT) =	3 : 1	4 : 1	2 : 1
or, EBIT/Interest	3 : 2	4:3	2 : 1
Interest	Rs. 200	Rs. 300	Rs. 1,000
EBIT 200×3/2; 300×4/3; 1,000×2/1	= 300	= 400	= 2,000
Operating leverage = (Cont./EBIT)	5 : 1	6 : 1	2 : 1
i.e., Fixed Exp./EBIT	4 : 1	5 : 1	1:1
Variable Exp. to Sales	66.67%	75%	50%
Contribution to Sales	33.33%	25%	50%
Fixed costs	300×4/1	400×5/1	2,000×1/1
= 1,200	= 2,000	= 2,000	
Contribution = (Fixed cost + EBIT)	1,500	2,400	4,000
Sales	4,500	9,600	8,000

Income Statement for the year ended 31.03.12

Particulars	A	В	С
Sales	Rs. 4,500	Rs. 9,600	Rs. 8,000
Variable cost	3,000	7,200	4,000
Contribution	1,500	2,400	4,000
Fixed Costs	1,200	2,000	2,000
EBIT	300	400	2,000
Interest	200	300	1,000
PBT	100	100	1,000
Tax at 50%	50	50	500
Profit after Tax (PAT)	50	50	500
Operating leverage (Cont./EBIT) =	5	6	2
Financial leverage (EBIT/PBT) =	3	4	2
Combined leverage	15	24	4

(4 Marks)

(4 Marks)

Answer-3 :

SWASTIK OILS LIMITED Cash Flow Statement for the Year Ended 31st March, 2014

(a) Cash Flows from Operating Activities	(Rs. in lakhs)	
Net profit before taxation (37,500 + 7,500)	45,000.00	
Adjustment for:		
Depreciation charged to P&L A/c	30,000.00	
Loss on sale of assets (net)	60.00	
Profit on sale of investments	(150.00)	
Interest income on investments	(3,759.00)	
Interest expenses	15,000.00	
Operating profit before working capital changes	86,151.00	

Answ (1) Curre	Cash and cash equivalents at the end of the ver-4 : Working Capital of X Ltd. during 2011-12, 20 ent Assets :	year 012-13 and 2013-14 2011-12	2012-13	2,569.50 (8 Mari 2013-14 (Rs. in Lacs)
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Answ	Cash and cash equivalents at the end of the	year		2,569.50 (8 Mar l
	Cash and cash equivalents at the end of the	year		2,569.50
	Cash and cash equivalents at the end of the	vear		2 569 50
		or the year		11,032.30
Net increase in cash and cash equivalents (A) + (B) + (C)				(13,602.00)
	Net increase in each and each against (C)	$(\mathbf{D}) \times (\mathbf{C})$		<u>42,052.50</u>
	Dividends (including interim dividend paid)			(12,000.00)
	Interest paid			(15,780.00)
	Proceeds from short-term borrowings			30,862.50
	Proceeds from long-term borrowings			38,970.00
c) Ca	ish Flow from Financing Activities			
				<u>(51,321.00)</u>
	Expenditure on construction work-in-progree	382		(<u>69,480.00)</u> (51,221,00)
	Investments in Joint Venture			(5,775.00)
	Purchase of fixed assets			(21,840.00)
	Interest Income on investments (assumed)			3,759.00
	Sale of Investments (41,647.50+150)			41,797.50
	Sale of Assets (277.50-60.00)			217.50
b)	Cash Flow from investing Activities			
	Net cash used in operating activities (A)			(4,333.50)
	Income tax paid			<u>(6,372.00)</u>
	Cash generated from operations			2,038.50
	balance			<u>(84,112.50)</u>

So working capital decreased by Rs. 550 lacs in 2008-09 and Rs. 425 lacs in 2013-14.

(4 Marks)

Profit during the year :	2012-13	(Rs. in Lacs) 2013-14
Increase in Profit & Loss A/c	1.00	
Increase in Reserve	4.00	9,00
Tax provision	17,00	28,00
Proposed Dividend	22,50	26,25
	44,50	65,25
Less : Profit on sale of Investment	(10)	_
Add : Depreciation	<u>7,00</u>	7,75
Fund from operations	51,40	73,00
		(4 Ma

X Ltd. earned Rs. 44,50 lacs profit and Rs. 51,40 Lacs fund in 2012-13. It earned Rs. 62,25lacs profit and Rs.73,00 lacs fund in 2013-14.

(3) Fund Flow Statements		(Rs. in Lacs)
	2012-13	2013-14
Sources:		
Fund from operations	51,40	73,00
Issue of 12% debentures	_	5,00
Sale of investments	<u>5,10</u>	
	56,50	78,00
Applications:		
Purchase of Plant and Machinery	37,00	27,75
Purchase of Investments	_	15,00
Tax payment	11,00	17,00
Dividend payment	14,00	22,50
	62,00	82,25
Decrease in Working Capital	5,50	4,25

(6 Marks)

Comments:

(1) It appears (Rs. 25,00 lacs) that 48.64% (Rs. 51,40 lacs) "e 100 of the fund generatedduring 2012-13 were used to pay tax and dividend. The percentage became stillhigher (54.11%)

 $\frac{\text{Rs.39,50}}{\text{Rs.73,00}} \text{ x 100 in 2013-14}$

(2) In 2012-13 the balance of the fund generated was 51.36% (100 – 48.64%) which isused to finance purchase of plant and machinery. Sources of finance for long-terminvestment were:

Fund from Operations ~~71.35% (Rs. 26,40 lacs/Rs. 37,00 lacs) x 100 ~~

Sale of Investments 13.78% (Rs. 5,10 lacs / Rs. 37,00 lacs) x 100

Working Capital 14.87% (Rs. 5,50 lacs / Rs. 37,00 lacs) x 100

Thus inadequate long-term fund to finance purchase of plant and machinerydeteriorated working capital position. Also the management proposed 30% dividend in2012-13.

So, liquidity deterioration in 2012-13 was due to (a) deployment of working capital inlong term investment and (b) high rate of dividend.

In 2013-14, fund generation was 42.02% more. But dividend was increased from 20% to30% which absorbed about 30.83% of funds generated. Tax paid to fund generated wasalso increased from 21.40% to 23.29%, Investment in Plant & Machinery (net ofcollection by issue of debentures) was 31.16% of the fund generated. Thus, margin of14.73 would remain had there been no investment outside business. This amounts toRs. 10.75 lacs. So outside investment caused liquidity deterioration in 2013-14.