## EBIT-EPS ANALYSIS

### Introduction

- \* A company has to make a important decisions with wealth maximisation, they are ——
  - · Financing decision ( Eauity | Debt | combination)
  - · Investment decision (Assets generating CF)
- \* cash flows generated can be of various types namely ———

#### Contribution EBIT EBT Sales $\downarrow$ $\downarrow$ operating Distributable Earnings profit before available profit to ESH. BIS tax FIN -Eav Prf EBIT Dt

\* The FBIT generated will belong to 4 persons namely

Debt holder Government PSH ESH

Interest Taxes Pref. divd Balance

- \* company's can raise funds from any source but business will be done for the favour of ESH.
- \* But, optimum capital structure will be such a capital structure which gives higher Eps for a given level of EBIT.
- \* If EBIT of a project is very high, it is better to binance the project by debt because same interest shall be paid for increased EBIT.

  \* on the other hand, it EBIT is very low, it is best

to have an all-eauity financing because, interest cost may lead to lok.

n.	Stepi: Un	devstanding the	situation.	
		$\downarrow$		
	$\downarrow$			$\overline{}$
	Present		N	ew project
	1,00,000 SM @ =	₹10each		₹2,50,000
	二 字 10,00,	000		
		√opt -1	√opt-2	opt-3 ↓
		Eauity	0ebt@87.	Pref@8%.
	Stepa: cal	culation of Et	. 29	
		Am	ount≤(₹)	
	Particulars	Eauity	Debt	Preterence
	EBIT	31121200	3,12,500	3, 12, 500
	(-) Interest	-	(20,000)	—
	EBT	3,12,500	2,92,500	3,12,500
	(-) Tax@ 50%	(1261250)	(1,46,250)	(1/26,250)
	EAT	1156,250	1,46,250	1,56,250
	(-) Prefidiv.	-	-	(20,000)
	EAESH	1,56,250	11461250	1,36,250
	÷ NOS	11521000	1,00,000	1,00,000
	EPS	1.92	l• ኒ b	1.36
	Step3: calc			न5,000.
			ovnt≤(₹)	
	Particular	Eauity	Debt	Preterence
	EBIT	75,000	न <b>्</b> ०००	000,2F
	(-) Interest	-	(20,000)	_
	EBT	000125	000,22	00012F
	(-) Tax@ 50%	(002,176)	(27,500)	(002175)
	EAT	002,FE	27,500	002178
	(-) Prefidiv.	-	-	(20,000)
	EAESH	002 FE	27,500	17,500
	÷ NOS	1,25,000	1,00,000	1,00,000
	EPS	0.30	275.0	251・0

## concept of Inditterence point

- \* Indifference point is a EBIT where Eps under any two plans will be same.
- \* At the IDP, whether it is all eauty tinanced / debt tinanced (or) any combination, EPS will be same.

  Note: Students should note that, it a auestion is given

on financing a project with various plans and in which EBIT is not given, it is a avestion on EBIT-EPS indifference concept.

# concept of financial break-even point

Financial breakeven is a situation where the EPS is exactly (30) at a certain level of EBIT. This changes from one plan to another. It is represented by following formula———

FBEP I+ PD 1-t I = Interest in Fterms

PD = Preference dividend

in Fterms

4,00,000

t = taxrate

		t= tax 10	
12.	step 1: Calculation of	no of new shares to b	pe issued
	Particulars	Option   Amt ( ?)	option 3
	Amount to be raised	₹ Z01001000	₹ 25,00,000
	I ssue price	₹ 25	₹ 50
	No. of Shaves	2,00,000.	50,000.
	stepa: Calculation of	total no. of. Shaves	
	Particulars	Option   Amt(2)	option 3
	Existing shares	101001000	101001000
	(t) New issue	2,00,000	201000
	Revised shaves	12,00,000	000102101
	Step3: Calculation of	interest on debentu	res
	Particulars	option 2 Amt (3)	option 3
	Princi pal	50,00,000	22,00,000

8,00,000

onterest @ 16%

	0100111 0010	21-12-2 25 524	Moder of D	antima
	Step 4: Calc			option
			ounts (\frac{17}{2})	a oti ma
	Particulars	ption - 1	option-a	option-3
		100% eauity	100% Debt	02:02
	Existing EBIT	60,00,000	60,00,000	60,00,000
	(t) Addl EBIT	401001000	40,00,000	40,00,000
	TOtal EBIT	1,00,00,000	1,00,00,000	1,00,00,000
	(-) onterest	_	(8,00,000)	(4,00,000)
	EBT	1,00,00,000	92,00,000	96,00,000
	(-) Tax@ 50%	(50,00,000)	(46,00,000)	(481001000)
	EAT	000,000,02	46,00,000	48,00,000
	NOS	12,00,000	101001000	10,50,000
	EPS	4.167	4.60	F Z · 4
	Comment :-	Option 2 is re	commended si	nce it is
		giving a high	er Eps.	
13.	Step 1:- An	alysing all the	3 alternation	les of funding
		Am	ount≤(₹)	
	Particulars	Option -1	Option-a	Option -3
	PAITICAINIS	OPTION	Opinon a	OPHON'S
	Reavired fund	25,00,000	22,00,000	25,00,000
	Debt amount	2,50,000	10,00,000	15,00,000
	Easuity amount	22,50,000	000100121	10,00,000
	stepa: mps	expected and	interest rate i	n 3cases
	Particulan	option-1	option -a	option -3
	Debt amount	2,50,000	101001000	000,000,21
	Interest rate	10%	121+201	10%+15%+20%
	Expected MP	2150	Q213	₹12S
		· of· shaves to	be issued.	
	Particulars	option-1	option-a	option -3
	Eauity amt	22,50,000	15,00,000	10,00,000
	m ps	150	021	125
	New issue	15,000	10,000	8,000
		•		

Step4: Call	culation of i	nterest cost	
		Amt(₹)	
Particulars	option-1	option -a	option -3
Debt amount	21501000	101001000	15,00,000
Interest cost	25,000	1, 37, 500	002, FE, S
	(2,50,000,10%)	(21501000 X10%)	(21201000 X 10%)
		+ (7,50,000 x 15%)	(%ZIX 00010Z1F)+
			+ (5,00,000 x20%)
Steps: cald	culation of	EPS	
		Amt(₹)	
Particulan	option-1	option -a	option -3
EBIT	5,00,000	21001000	000,000
(-) Interest	(25,000)	(0021FE 11)	(2,37,200)
EBT	000,27,4	3,62,500	2,62,500
802@10T (-)	(2137,500)	(1/81/2720)	(11311250)
EAT	2,37,500	1181/250	1131,250
÷ NOS	15,000	10,000	8,000
E PS	₹15-833	₹18.125	₹16.406
Plan II is	recommended	since Eps is	more.