Example 18: A plant costing ₹ 3,00,000 is required in order to undertake a proposed project. The effective life of the plant is 5 years. The estimated earnings before depreciation and tax of the project are as follows:

Year		(₹)	
1	0(4)(0)	90,000	
2	Service Charles	1,05,000	
3	1 mg Jg 1 100 20,1	1,20,000	
4	XIO.HL.	1,50,000	
5	COLUMN CONTRACTOR	1,65,000	

If the tax rate is 50%, cost of capital is 15% and the scrap value of the machine is zero, calculate the net present value and suggest whether the project should be accepted or not.

Given: The present value factors at a discount @ 15% rate are:

Year

3

4

5

PV Factors

0.8696

1

0.7561

2

0.6575

0.5718

0.4972

● Solution ⇒

Statement of Net Cash Inflows

Particulars	1st year (₹)	2nd year (₹)	3rd year (₹)	4th year (₹)	5th year (₹)
Profit before depreciation	The Transfer of the State of th	, con the second second	K. Wale Shall continue E. Nell c		Table of The Control of
& taxes	90,000	1,05,000	1,20,000	1,50,000	1,65,000
Less: Depreciation	60,000	60,000	60,000	60,000	60,000
Profit before tax	30,000	45,000	60,000	90,000	1,05,000
Less : Tax @ 50%	15,000	22,500	30,000	45,000	52,500
Profit after tax	15,000	22,500	30,000	45,000	52,500
Add: Depreciation	60,000	60,000	60,000	60,000	60,000
Net Cash inflows	75,000	82,500	90,000	1,05,000	1,12,500

Financial Management



Statement showing the NPV

Year		Net Cash inflows (₹)	PVF of Re. 1 at 15% (₹)	Present Value (₹)	
1	2 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	75,000	0.8696	65,220	
2	The water was	82,500	0.7561	62,378	
3		90,000	0.6575	59,175	
4		1,05,000	0.5718	60,039	
112,75		1,12,500	0.4972	55,935	
24,500	Total pres	sent value	i di cia	3,02,747	
Less:	3,00,000				
THE CO.	Net Prese	ent Value	i i gmi	2,747	

Comment: It is clear from the above table that the net present value of the given project is positive. So, the project should be accepted.