Project Management Year Cash flows 20000 30000 40000 50000 30000 The cash outflow is Rs. 100000 The cost of capital in 10% Calculati; i) NPV is Profitability Index iii) Pay-back Period in Discounted Pay-back

PV-factor = (1+r)m re cost of capital n 2 year.

x PV factor PV = Cashflow pr canhflow carhflow prforefor@10% cash flow Year 18,180

50000 1 24 780 0 - 826 30000 2 30040 0,757 40000

0.909

34150 01683 2 ww

18630 0.64 30000

125780 Total can't Influe 100000

Total can outflow NPV 25780

> 1.2578 29

NPV 2 Total cash on Inflow - Total cash outflow Total cont in the

outflow

Pay-back Period w) Cumulative Carhflow canh flow Year 20000 2000 20000+30000 = 5000 30000 n + 40000=9000 4 0000 rnous / ->> 1 asses 20000 ~ 170000 30000 100000- 90000 Payback Period = 3+ \$ 50000 = 3.2×12 = 38:4 Months = 312 years Déscounted Payback Period Cumulative PV Prof canh flow Pv factor@ 10% conflow Year Cashtlow 18180 18180 0.909 20000 18180+24780=42960 24780 0-826 n +30040=73000 30000 2 30040 0.751 40000 >10000 3 MIFOI 34150

100000 - 43000 Déscounted Payback Period = 3+ , 34150

18630

01683

0.621

50000

30000

4

5

=3.99 \$ 3.8 years = 45.6 months

125780

2	]	westw	ient 2	00000					
· ·			canhfl		200	000			
	240		*)	. =	uo	000			
	38	,	'n	£ .	45	000			
	unt	\bar{n}	Ŋ		IG	000			
R=10% Calculate NPV, PI, Payback Period, Discounted PP									
Ca	loul	ati NP	V, PI,	Paybac	K YE	Mod, DI	scounda i	7	
0		ecision	ROI.			(DPP)	(PP)		
→ ·	Fran	cash	Profesor	cash flo	ws 7	er canh flows	(100000)	<u> </u>	
	0	(100000)	1	(100000	H	(08 13) - asson	(8000)		
	1	20000	0.909	18180	(	81820 - 23040)	(40000)		
	2	40000	01826	33040	? [6	48780)	(40000) - 5000	valu.	
•	3	45000	0.751	33 79!		(14985)		·().	
	4	45000	01683	51225		36240	80000		
1 Landing from those to the									
	otal	conhibito	to the wi	=(18180	7 + 3	3040+ 33	7957 5727	5)	
				= 1362					
Dries 2 136240 =1136240									
100000									
NPV = 136240-100000 = 36240									
Déscounted Payback Period = 3+ 14985 [cumula hive prosinte (DPP) = 3,29 & 313									
40000 reunmulative									
Payback Period (TP) = 2 + 40000 [Cummlahire Cashfree Positive volu)									
= 2188 \$ 219									
		Pro	fit Per	r Year					
RO	T	= 1	nvestme	int	-				
ROI = Profit Per Year  Investment  Total conflow = 180000 (20000+ 40000+ 45000)									
Investment = 100000									
Investment - 1000000 2 80000									
Investment = 100000 - 100000 2 80000 Profit = 180000 - 1000000 2 80000									
· ·	erist contract		-					Harried .	

years = 4 Profit Per Year = 20000 2000 × 100 = 20/ PO9 = 1-00000

## CPM & Network Liagram

	$\sim$
Activity Preceding Activity Duration (In Day	<b>か</b> )
3 Activity Preceding Berning 0 2	
A start 3	
A 4	
B . 3	
E	
Finish ES > 2 arrly start; N-Achivit	9
ES N EF LS > Late n; AD - n Durahin	M
ES N EF  LS > Late " ; AD - "  Durahin  EF > Early finish  LF > late finish	
LF -> late +ms	
7649	2
Start   1 A 2   3 B 3 5   10 3   11-3+1	1
LS = LF - Duvahon+1 739	
There exists two paths:	
r + trush	

D start -> A-> B-> C-> E-> +1

11) start > A > B > D > E > finish = 101 critical path is the largest path.

, . Path is -> Start -> A-> B-> C-> E-> Finish

- All the critical Polth activities have no stack.
  All the top numbers equal the bottom numbers
  Only, D has a stack of 1.
  - \* Slack Amount of time you can delay an activity without delaying the prosect end date.