

AS 16 - Borrowing Costs

low lena

loan ke upar lagne wala Interest


Modmally PII (Exp)

1) Definitions

ⓐ Borrowing costs → these are Interest & other costs incurred on Borrowing of funds

Borrowing cost incurred on Qualifying Assets will be capitalised (i.e. Add to the cost of Asset)

ⓑ Qualifying Asset → Asset which takes ^(generally 12 months or more) substantial period of time to get ready for its intended use or sale

eg:  Bldg. → 2 yrs to construct this → a loan taken to construct the Bldg. → Jet on loan (Borrowing cost) incurred on a qualifying asset ∴ Add Interest to the cost of Bldg.

Ak construction House

eg:  Bldg → 1 yr to construct this Bldg → But loan not taken → ~~Borrowing cost capitalise?~~
As 16 → NOT applicable was

2 things mandatory

- ① loan lena padega
- ② Qualifying asset pe kharida karna padega.

→ AS 16 - Borrowing cost Applicable
Int Exp will be capitalised to cost of asset

J-E	
Bldg (Int Exp)	xx
TOCIB	xx

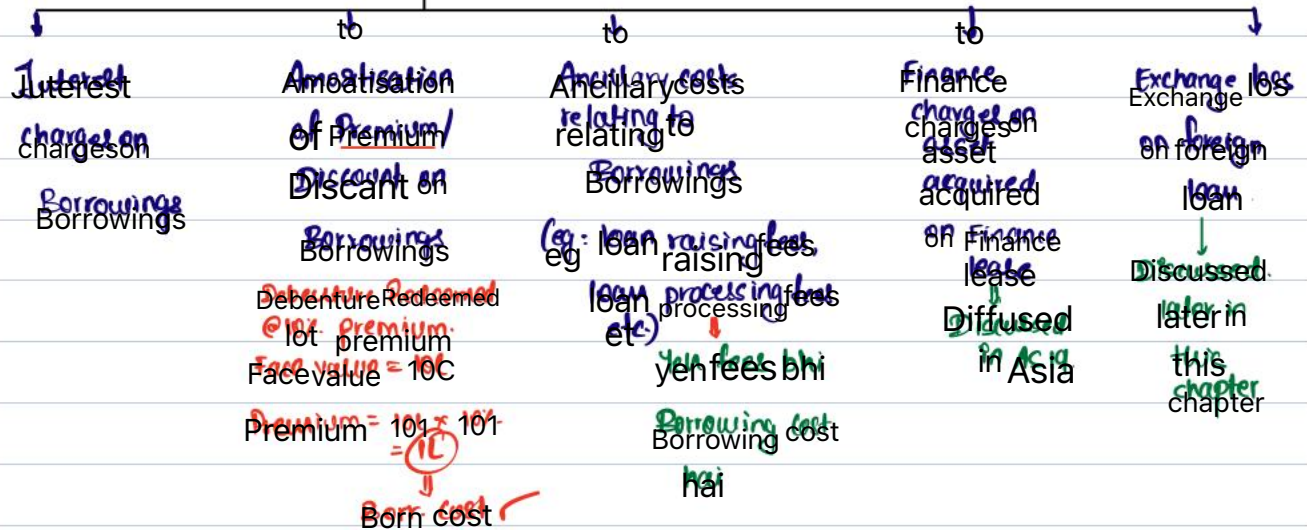
Note:

1) Generally a period of 12 months or more is considered to be substantial for qualifying asset, but in some cases a shorter period of less than 12 months can also be considered substantial, if justified.

2) The following types of Borrowings will Not be covered under AS 16:

- (a) Borrowing funds by issuing equity share capital
- (b) Borrowing funds by issuing preference share capital

3) Various types of Borrowing costs covered in AS 16:



4) Examples of Qualifying Assets

- PPE Intangible Assets, Investment property, Inventories (CAS 13)
- Contract 2 its taking 12 months or more to get ready → Qualifying Asset
- If purchased in ready made condition → Not a qualifying Asset
- Ready made investment purchased like investment in eq shares → Not a Qualifying Asset

② Borrowing cost eligible for capitalisation

If Directly related to Acquisition construction, production of Qualifying Assets

||
Capitalised

If incurred for other than Qualifying Assets

↓
Trf to P/L

③ Types of Borrowings

① Specific Borrowings

② General Borrowings

④ Specific Borrowings

→ These are Borrowings specifically taken for qualifying assets

→ Borrowing cost eligible for capitalised

= Actual Borrowing cost during construction period XX

Less: Income on Temporary Investments of idle funds of these Borrowings (XX)

Eg① Specific Borrowings

loan taken on 01/04/11 of ₹ 100 crores @ 12% for 12 months for construction of a Bldg which was completed on 31/3/12.

The company invested idle funds of loan & earns ₹ 0.5 crores

Calculate Borrowing cost to be capitalised



Solⁿ:

$$\text{Total Borrowing cost incurred} = 1000 \times 12\% \times \frac{12m}{12m} = 12 \text{ crores}$$

$$\text{less: Income from Temporary Invest of idle funds} = (0.5 \text{ crores})$$

$$\text{Borrowing cost to be cap} = 11.5 \text{ crores}$$

② General Borrowings

- All Borrowings that are not specific are general Borrowings.
- In this case, Qualifying Asset is funded from a pool of general Borrowings.
- Borrowing cost eligible for capitalisation in case of general Borrowings is calculated as follows:

CR/WACC/WACR

Step ① Calculate Capitalisation Rate (weighted Average cost of capital / weighted Avg Capitalisation rate)

$$= \frac{\text{Total Interest (weighted Avg)}}{\text{Total Borrowings (weighted Avg)}}$$

Step ② Calculate Borrowing cost to be capitalised:

$$= \frac{\text{Expenditure Amt} \times \text{Capitalisation Rate} \times \text{No of months that expenditure was outstanding}}{\text{Rate}}$$

eg ① Generally Borrowings

₹
01/04/11 → ICICI Bank @ 12% → 100 crores
→ HDFC Bank @ 14% → 75 crores
175 crores

Funds utilized for construction of Bldg → (construction started on 01/04/11 & completed on 31/12)

01/04/11 → 50 crores

01/07/11 → 75 crores

01/01/12 → 25 crores

Calculate Borrowing cost to be capitalised

50% Step ① Capitalization Rate/WACC/WAEK

$$= \frac{\text{Total Interest (weighted Avg)}}{\text{Total Borrowings (weighted Avg)}} \times 100$$
$$= \frac{720 + 10.5k}{1750} \times 100$$

WACC 12% → 720
750 × 14% → 10.5k

$$= \underline{12.86\%} \text{ approx}$$

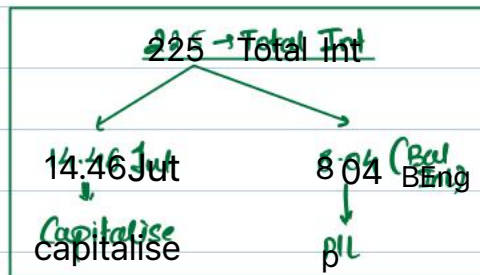
Step ② Borrowing cost to be capitalised

01/04/11 → 50 crores × 12.86% × 12m/12m = 6.43

01/07/11 → 75 crores × 12.86% × 9m/12m = 7.23

01/01/12 → 25 crores × 12.86% × 3m/12m = 0.80

Borrowing cost eligible for capitalisation → 14.46 crores



Eg: General Borrowing

01/04/21 General Borrowings

JCI Bank loan @ 10% → 100 cr

HDFC Bank loan @ 12% → 75 cr

Team loan @ 14% → 50 cr

Expenditure incurred on qualifying Asset

01/04/21 → 50 crores

01/07/21 → 100 crores

01/11/21 → 25 crores

Construction period is 12 months. Calculate Borrowing cost to be capitalised.

Solⁿ: Step 1 Cap Rate / WACC / WAC

$$= \frac{\text{Total Interest (weighted Avg)}}{\text{Total Borrowings (weighted Avg)}} \times 100$$

$$= \frac{(100 \times 10\%) + (75 \times 12\%) + (50 \times 14\%)}{2250} \times 100 = \frac{26}{225} \times 100$$

$$= 11.56\% \text{ p.a.}$$

Step 2 Borrowing lost to be capitalised

01/04/11 → 50 cr × 11.56% × 12/12 = 5.78
 01/07/11 → 100 cr × 11.56% × 9/12 = 8.67
 01/11/11 → 25 cr × 11.56% × 5/12 = 1.20
 Total B.C to be Cap **15.65**

UR

Eg: Specific Borrowing & General Borrowing

- 01/04/11 → Specific Borrowing → 10% loan → 30 crores
- 01/04/11 → General Borrowings → ICICI Bank loan @ 12% → 100 crores
 → HDFC Bank loan @ 14% → 75 crores
- 01/07/11 → General Borrowings → Kotak Bank loan @ 8% → 125 crores

Expenditure incurred on Qualifying Asset

- 01/04/11 → 50 crores
 (30 crores → SB, 20 crores → GB)
- 01/07/11 → 75 crores
- 01/01/12 → 25 crores

Constructed started on 01/04/11 & completed on 31/3/12. Calculate B.C to be capitalised.

Q1s Step 1 Capitalization Rate/WACC = Total Int (weighted Avg)
 (Exclude specific Borrowing only for general Borrowing) Total Borrowings (weighted Avg)

$$= \frac{120 + 10.5\text{cr} + 7.5\text{cr}}{100 + 75\text{cr} + 93.75} \times 100$$

$\xrightarrow{25 \times 8\% \times 9/12}$
 $\xrightarrow{125 \times 9\% \times 2}$

11.16% p.a.

Step 2 Borrowing cost to be capitalised

(a) Specific Borrowing (Int Capitalised) 3 crores → (A)
 $(300 \times 10\% \times 12/12)$

(b) General Borrowing (Int Capitalised)

$01.04 \times 150 \times 200 \times 11.161 \times 12/12 = 2.23 \text{ cr}$
 [30 crore funded from Sp. Borr]

$01.07 \times 1750 \times 11.161 \times 9/12 = 6.28 \text{ cr}$

$01.01 \times 2250 \times 11.161 \times 3/12 = 0.70 \text{ cr}$, 9.21 crores → (B)

Total B.C. Cap (A + B) 12.21 crores.

Fore.CA

Illustr

(WN)



As per AS 16 Borrowing cost, Borrowing cost incurred on acquisition, construction or production of QA is capitalised to the cost of asset

Other Borr cost should be fit to P/L.

QA is an asset that takes substantial period of time to get ready for its intended use and sale.

Purpose	Q.A or Nbt	Interest to be Cap	Interest charged to P/L
1. Construction of shed	Q.A	7.5 lakhs ($181 \times \frac{50}{98}$)	-
2. Purchase of Machinery	Not a Q.A	-	6 lakhs ($181 \times \frac{40}{120}$)
3. Working Cap Klooking Cap	Not a Q.A	-	3 lakhs ($181 \times \frac{20}{120}$)
4. Purchase of Truck	Not a Q.A	-	1.5 lakhs ($181 \times \frac{10}{120}$)
<u>Total</u>		7.5 lakhs	10.5 lakhs

Ques 3

As per AS 16 Bor. Cost, Borrowing cost incurred on acquisition, construction or production of Q.A is capitalised to the cost of asset

Other Bor. Cost should be tiff to P/L.

Q.A is an asset that takes substantial period of time to get ready for its intended use or sale.

$$\text{Total Jut Exp} = 11,00,000$$

$$\text{(-) Income from P/L funds } (2,00,000)$$

$$\text{Borrowing Cost } 9,00,000$$

Purpose	Q. A or Not	Interest to be Cap	Interest charged to P/L
1. Construction of shed	Q. A	360000 (900000 × 40/100)	-
2. Purchase of Machinery	Not a Q. A	-	315000 (900000 × 35/100)
3. Working Cap Klooking Cap	Not a Q. A	-	225000 (900000 × 25/100)
Total		360000	540000

Ques 8 → H.co self

Unit 8 (UR)

Step 1 Calculation of Cap Rate/wacc (for gen borrowings)

$$\begin{aligned}
 &= \frac{\text{Total Int (weighted Avg)}}{\text{Total Borrowings (weighted Avg)}} \times 100 \\
 &= \frac{(500000 \times 14\%) + (900000 \times 13\%)}{500000 + 900000} \times 100 \\
 &= \frac{172000}{1400000} \times 100 \\
 &= 12.285\% \text{ approx } \textcircled{R} 12.29\%
 \end{aligned}$$

Step 2: B.E to be cap

Ⓐ Specific Borrowing
 $(14 \times 101 \times 12/12)$

10000 → Ⓐ

Ⓑ General Borrowing

$1/1/11 \times 100,000 \times 12.2851 \times 12/12 = 12285$

$01/04/11 \times 250,000 \times 12.2851 \times 9/12 = 23034$

$01/07/11 \times 450,000 \times 12.2851 \times 6/12 = 27641$

$01/12/11 \times 120,000 \times 12.2851 \times 1/12 = 1228$ → 64189 → Ⓑ

Total Borrowing Cost to ₹74189 approx
 to be capitalised

3-E for capitalising cost & Borr Cost

31/12/11 PPE Bldg 10,94,189
 TOCB 10,94,189

$(10,20,000 + 74,189)$

Cost of construction Borrowing cost

01/04/11 241 31/3/13 31/3/16

Immer

If PIL

eg: loan 541 1906107
 QA cost → 29110

Cap Int

④ Period of Capitalisation

A. Commencement	B. Suspension	C. Cessation
<p>Commencement of capitalisation begins when All conditions are satisfied:</p>	<p>Capitalisation should be suspended during extended period if active development is NOT taking place.</p>	<p>Cease capitalisation when substantially all the activities necessary to prepare QA are complete.</p>
<p>1] Expenditure on QA has been incurred</p>	<p>development is NOT taking place.</p>	<p>complete</p>
<p>2] Activities that are necessary have been started (such activities not only include physical work, but also include technical work, registration work, site preparation planning etc)</p>	<p>Note: Capitalisation is not suspended if temporary delay is a necessary part of construction</p>	<p>(If minor modifications such as decoration are pending, it will still indicate that substantially the activities are complete)</p>
<p>3] Borrowing cost is incurred</p>	<p>Ex: Const start 01.04.11 Eg 01.11.11 to 30.11.11 → strike Const End 31.12.13</p>	<p>• When construction of QA is completed in parts cease capitalisation of each part which is completed, provided such part can be used separately</p>
<p>eg: 01.04.11 → Expenditure incurred 01.05.11 → B.C incurred</p>	<p>Total months = 24 months</p>	<p>separately</p>
<p>01.06.11 → Registration work Begins</p>	<p>1m ↓ yep suspend</p>	<p>23m ↓ It cap</p>
<p>01.07.11 → Physical work (Not relevant)</p>	<p>Inf. all</p>	<p>Ex: Ak House Eg</p>
<p>Cap of Int → start → 01.06.11 (commence)</p>	<p>Ex: Const start Bridge 01.04.11 Eg 01.11.11 to 30.11.11 → High tide / rakha tha (part of process) Const completed on 31.12.13</p>	<p>Tower A Tower B Tower C Tower D Ready on 31.12.13 not yet ready continue Capitalisation</p>
<p>In above case as work stopped in a normal part of process No suspension</p>	<p>In above case as work stopped in a normal part of process No suspension</p>	<p>Tower A UB can be used even if CUD are not ready Stop capitalisation</p>

THIS 10 (UR)

Normally 12m is considered to be substantial period. But in many ques even if construction is of 6m/7m/9m/10m etc → it is considered as qualifying asset in ICAI ques.

If ques specifically says 6m/7m is not substantial → Then it won't be a Q.A.

Total Expense incurred (AU 4 phases) = 221 lakhs

loan taken @ 15% = 200 lakhs

Total Interest Incurred = 30,00,000 (full year)
(200 lakhs × 15%)

Phase I & II (6m cap period)

Phase III 2/4

Cost incurred = 344 + 644
= 988

Cost incurred = 55L + 68L
= 123L

Int for phase I & II = 1330317
(30,00,000 × 98L / 211) full 12 months

Int for Phase III & IV = 1669683
(30,00,000 × 123L / 221L) full 12 months

Ready in 6m (cap period)

Balance 6m

FW Int Cap as work is not yet completed.

665 158.5
Interest Capitalise

665 158.5
Interest (PI)

Total Interest Capitalised = 665158.5 + 1669683 = 23,34,841.5

Total Interest trf to P/L = 665158.5

Illus 3 (LDR)
Illus

Rough work

580 lakhs (loan) → Jul 5 2020



1) ICAF	Q.A	Q.in	Not a Q.A
2) Alternative	Not QA	Not QA	Not QA
3) Alternative	Q.A	Not QA	Not QA

** It is assumed in the above solution that the modernisation and renovation of plant and machinery will take substantial period of time (i.e. more than twelve months). Regarding purchase of additional assets, the nature of additional assets has also been considered as qualifying assets. Alternatively, the plant and machinery and additional assets may be assumed to be non-qualifying assets on the basis that the renovation and installation of additional assets will not take substantial period of time. In that case, the entire amount of interest, ₹ 52.20 lakhs will be recognised as expense in the profit and loss account for year ended 31st March, 20X2.

ICAI 501N

Purpose	Q.A or Not	Interest to be Cap	Interest charged to P/L
1) Contribution of P&M	Q.A	36.54 $(52.20 \times \frac{406}{580})$	
2) Advance for additional assets	Q.A	5.22 $(52.20 \times \frac{58}{580})$	
3) Working Cap	Not a Q.A		10.44 $(52.20 \times \frac{116}{580})$
Total		41.76 ↓ Inf cap	10.44 ↓ Int P/L

Illus 4 to Illus 7 → Refer Q.B.

Illus 8 (CDR) → Self Practice

illus 9 → Refer QB

Quest 5, 6 → Refer B

Quest (LDR)

As per AS16 Borrowing cost, Borrowing cost incurred on acquisition, construction or production of Q.A is capitalised to the cost of asset

Other Borrow cost should be fit to P/L

Q.A is an asset that takes substantial period of time to get ready for its intended use and sale.

In case of specific borrowing income from idle funds is to be deducted from actual borrowing costs

loan taken on 01.06.21

Calculation of Interest

$$\text{Total Interest } (1001 \times 12\% \times \frac{10m}{12m}) = 10,00,000$$

$$\text{(-) Income on Temp Invest (Given)} \quad \underline{50,000}$$

Net Borrowing Cost **950,000**

Purpose	Q.A or Nbt	Interest to be Cap	Interest charged to P/L
1) Construction of Bldg	Q.A	380000 (950000 × 40/100)	
2) working Cap	Not a Q.A		285000 (950000 × 30/100)
3) Purchase of Mach't	Not a Q.A		142500 (950000 × 15/100)
4) Purch of Form	Not a Q.A		19000 (950000 × 2/100)
5) Purchase of Truck	Not a Q.A		123500 (950000 × 13/100)
	Total	380000 (Cap)	570000 (P/L)

Quest 3

Step ① Calc of Cap. Rate (Gen Bon)

$$= \frac{\text{Total Int (weighted Avg)}}{\text{Total Borr (weighted Avg)}} \times 100$$
$$= \frac{36000 (+) 60000 (+) 42000}{400000 (+) 500000 (+) 300000} \times 100$$
$$= 11.51\% \text{ p.a.}$$

Step ② Borrowing cost to be capitalised

① Specific Borrowing

$$200000 \times 8\% \times \frac{12}{12} = 16000$$

② General Borrowing

(31421 → used from SB)
= IL

$$09/04 \times 7 \rightarrow 100000 \times 11.5\% \times \frac{12}{12} = 11500$$

$$31/05/17 \rightarrow 240000 \times 11.5\% \times \frac{10}{12} = 23000$$

$$1/08/17 \rightarrow 400000 \times 11.5\% \times \frac{8}{12} = 30667$$

$$31/12/17 \rightarrow 360000 \times 11.5\% \times \frac{3}{12} = 10350$$

75517

91517

J.E.

Bldg 1391517

To Cr/B 1391517

(134 + 91517)

Cost Int cap

Ques 11 (LDR)

AK's Note: If expenditure incurred is suppose 100 lakhs. But loan is only taken of ₹ 70 lakhs. then interest will be capitalised on the amount of Borrowing i.e. 70 lakhs

Ⓐ Interest to be capitalised on Specific Borrowing
 (taken for Bldg → GA) → $25,00,000 \times 12\% \times 12/12$

300000 → Ⓐ

Ⓑ Interest to be capitalised for general Borrowing

- Borrowing Amt = 63,00,000
- Total expenditure = 200,00,000
 (excl Building Sp)

Extra Note: we did not calculate cap Rate in this case as expenditure is more than Borrowings
 2 Normally we apply the cap Rate on Expenditure
 But here since Borrowing is less ∴ we did directly

Total Interest on General Borrowing = 75,000

(12000 + 45000 + 18000)

Purpose	GA or Net	Interest to be Capitalised	Interest charged to P/L
① Building	GA	168750 $(750000 \times 45\% / 200)$	
② Furniture	Net & GA		82500 $(750000 \times 22\% / 200)$
③ Plant & Machs	GA	337500 $(750000 \times 90\% / 200)$	
④ Factory	GA	161250 $(750000 \times 43\% / 200)$	
		667500 → Ⓑ	82500

Total B & C cap (Specific + General) (A + B)
 $300000 + 667500$
 $= 967500$

Ques 12 (UR)

1) Data Bank loan (fully utilized for qualifying Asset)

Interest to be capitalised = $480000 - 400000 = 80000$
 $(600000 \times 8\% \times \frac{142}{360})$

Temporary Investment Income (Given)

2) Satya Bank Ltd loan

Rough work → 201 Jul (192000)



Alternate working
 $600000 \times 8\% \times \frac{2m}{24m} = 80000$

i. 10 months Int cap

Total Int (48000) → 4

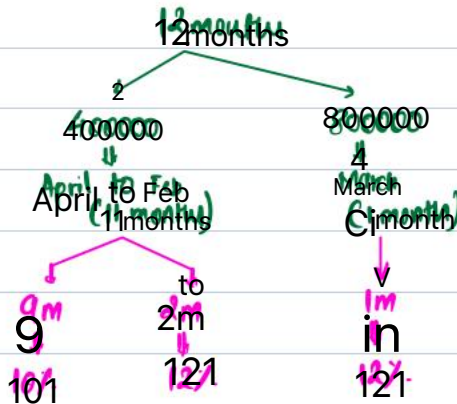
loan	Purpose	QA or not	Interest cap	Int hit to P/L
1) Data Bank loan	Const of New Bldg	RA (10 months)	370000 (Refer working cap)	110000 → Exp 30000 → Income Net → 80,000
2) Satya Bank loan	Const of New Bldg	QA (10 months)	112000 $(192000 \times \frac{14}{100} \times \frac{10m}{12m})$	22400 $(192000 \times \frac{14}{100} \times \frac{2m}{12m})$
	working cap	Not a one	-	57600 $(192000 \times \frac{6}{100} \times \frac{2m}{12m})$
			482000	160000

Ques 4 (LDR) → As annual Cap Rate is asked ∴ Court start date of 1st Dec is not relevant

Rough work

① Corporate Deposit
20 lakhs @ 9%

② Overdraft loan



Step ① Calculation of Annual Capitalisation Rate

$$\frac{\text{Total Interest (weighted Avg)} \text{ WN1}}{\text{Total Borrowings (weighted Avg)} \text{ WN2}} \times 100$$

$$= \frac{226000}{2433334} \times 100$$

$$= 9.29\% \text{ p.a. approx}$$

WN1 Total Interest (weighted Avg)

①	$20,00,000 \times 9\% \times \frac{12}{12}$	=	180000
②	$400000 \times 107\% \times \frac{9}{12}$	=	30000
	$400000 \times 121\% \times \frac{3}{12}$	=	8000
	$800000 \times 121\% \times \frac{1}{12}$	=	8000
			<u>226000</u>

WN2 Total Borrowings (weighted Avg)

①	$20,00,000 \times \frac{12}{12}$	=	20,00,000
②	$400000 \times \frac{9}{12}$	=	300000
	$400000 \times \frac{3}{12}$	=	66667
	$800000 \times \frac{1}{12}$	=	66667
			<u>24,33,334</u>

Ques 13 (UR)³

Special points for this ques

- ① If in ques planned expenditure & actual expenditure both are given then calculate Borrowing cost as per actual expenditure.
- ② If in any month we have surplus funds there is no overdraft that means we have not taken loan i.e. Ignore Int for that month period.
- ③ If any month our expenditure is suppose ₹ 100 lakhs but loan is taken only of 70 lakhs then interest will be capitalised only on 70 lakhs.
- ④ If Int is calculated on monthly basis then compounding will be applicable (i.e. Int on Int)

Month	Opening	Actual Exp for the month	Interest per <u>Eye</u>	Total expenditure outstanding (including Interest)
Oct 2023	-	400,000	5000 $(44 \times 151 \times \frac{1}{12})$	405000
Nov 2023	405000	795000	15000 $(405000 + 795000) \times 151 \times \frac{1}{12}$	1215000
Dec 2023	1215000	-	15188 $(1215000 \times 151 \times \frac{1}{12})$	1230188
Jan 2024	1230188	50000	Mit (Refer Note 2) above	1280188
Feb 2024	1280188	200000	17500 $(1280188 + 200000) \times 151 \times \frac{1}{12}$ 14,00,000 (Refer Note 3) above	1497688
March 2024	1497688	1200000	33721 $(1497688 + 1200000) \times 151 \times \frac{1}{12}$	2734409
Total B.C			86409	

⑤ Exchange loss on loan taken for Q.A in foreign currency

Eg: Ak Virtuals (Indian Co) loan taken for Q.A = \$10000 (US Bank) @ 5% p.a.
on 01/04/14

Similar loan in India is provided @ 12% p.a.

Exchange Rate on 01/04/14 = ₹70/\$

Exchange Rate on 31/3/15 = ₹75/\$

Soln: ① Int on foreign loan

loan on 01/04/14 = \$10000

Int @ 5% on year end = \$500 × ₹75/\$ = ₹37500 → Capitalise

② Exchange loss on loan amount = ₹250,000

[\$10000 × (₹75/\$ - ₹70/\$)]

③ Interest if loan was taken in Indian currency = ₹84000

(\$10000 × ₹70/\$) = ₹700,000 × 12%

④ Difference between Interest in India & Foreign

₹84000 - ₹37500 = ₹46500 → Max. Ex loss that can be capitalised

Already
Arey

Ex loss → 50000

46500

capitalise

3500 (Balance)

P14

Total Capitalise = Int + Ex loss = 84000
37500 46500

Note: If in above case, there is exchange gain, then above concept is not applicable.
 Directly add that gain to P/L

Ques 2 (CPR)

₹

(a) Int on foreign loan = 24.8 lakhs

$$\$ 104 \times 4\% \times \frac{₹ 62}{₹ 1}$$

(b) Ex loss

$$\$ 104 \times (62 - 56) = ₹ 60 \text{ lakhs}$$

(c) Int on Indian loan

$$\$ 104 \times 10\% \times \frac{₹ 56}{₹ 1} = 58.8 \text{ lakhs}$$

(d) Diff Btw India & foreign Int

$$58.8 - 24.8 \text{ lakhs} = 34 \text{ lakhs} \rightarrow \text{Max Ex loss that can be cap.}$$

Ex loss \rightarrow 60 lakhs

34 lakhs \rightarrow Capitalise

Bal 26 lakhs \rightarrow P/L

$$\begin{aligned} \text{Total Capitalise} &= \text{Int on foreign loan (+) Ex loss} \\ &= ₹ 24.8 \text{ lakhs (+) } 34 \text{ lakhs} \\ &= ₹ 58.8 \text{ lakhs} \end{aligned}$$