

SLFRS 9, LKAS 32 Financial Instruments Part 2

Chartered Accountancy Strategic Level Advanced Business Reporting (ABR)

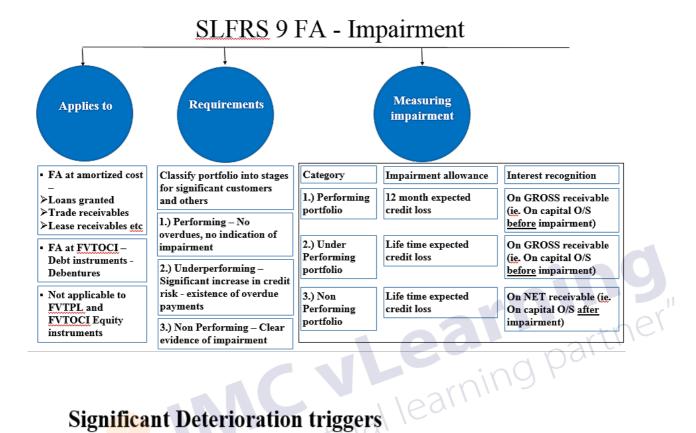
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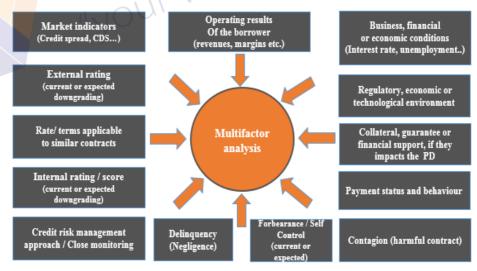
SLFRS 9 – Impairment / Derivatives / Hedge accounting

LKAS 32 - FI Presentation



Significant Deterioration triggers

Non-exhaustive list of factors or indicators to consider



SLFRS 9 FA - Impairment

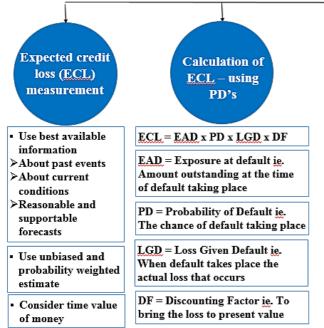


Illustration 1

Debtors owes a total of Rs. 100,000 to A Ltd and is due for payment in 1 year from now. Based on historical experience A Ltd estimates 15% of debtors will go bankrupt and by selling the assets they have A Ltd can recover 80% of the balance outstanding. Applicable discount rate is 10%

ECL = 100,000 x 15% x 20% x [1/(1+10%)^1] = 2,727

Illustration 2 – Impairment of loan carried at amortized cost

Scenario – A Ltd granted a loan of 1,000 to B which is to be repaid in annual installments of 230 each over 6 years. The effective interest rate is 10%p.a. rtual lea

	Description	Amount (Rs')
Year 1	Opening balance	1000
	In <mark>terest at</mark> 10%	100
	Repayments	(230)
	Closing balance	870

End of Year 1 – A Ltd concludes that there's NO significant increase in credit risk and categorizes the loan as Stage 1 – Performing. Therefore it measures expected credit losses based on 12 month ECL. The 12 month PD is estimated at 2% while the lifetime PD is 5% and LGD is estimated at 90%. At end of Year 1 A Ltd grants new loans at a rate of 12%p.a and the Treasury bill rate is 8%p.a.

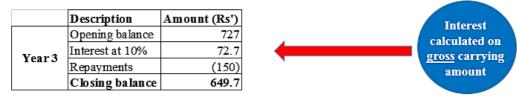


	Description	Amount (Rs')	Interest
	Opening balance	870	calculated on
Year 2	Interest at 10%	87	gross carrying
Ical 2	Repayments	(230)	amount
	Closing balance	727	anount

End of Year 2 – A Ltd concludes that there IS a significant increase in credit risk and categorizes the loan as Stage 2 – Under Performing. Therefore it measures expected credit losses based on life time ECL. The PD is estimated at 6% and LGD is estimated at 90%.

 $\frac{\text{ECL}}{= 39.26} = 727 \text{ x } 6\% \text{ x } 90\%$

Gross carrying amount loan = 727 Impairment provision = (39.26) Net carrying amount of loan = 687.74



End of Year 3 – A Ltd concludes that there IS a significant increase in credit risk and there is objective evidence of impairment and categorizes the loan as Stage 3 – Non Performing. Therefore it measures expected credit losses based on life time ECL.

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The PD is estimated at 70% and LGD is estimated at 90%.

ECL = 649.7 x 70% x 90% = 409.31

Gross carrying amount loan = 649.7 Impairment provision = (409.31) Net carrying amount of loan = 240.39

	Description	Amount (Rs')	\	Interest
	Opening balance	240.39		calculated on
Year 4	Interest at 10%	24.04		NET carrying
Ieal 4	Repayments	(50)	•	amount
	C lo sing balance	214.43		

End of Year 4 – A Ltd concludes that there still IS a significant increase in credit risk and there is objective evidence of impairment and continues to categorize the loan as Stage 3 – Non Performing. Therefore it measures expected credit losses based on life time ECL.

The PD is estimated at 70% and LGD is estimated at 90%.

Gross carrying amount = 649.7 + 24.04 + (50) = 623.74 ECL = 623.74 x 70% x 90% = 392.96

Gross carrying amount loan = 623.74 Impairment provision = (392.96) Net carrying amount of loan = 230.78

Summary of Financial statements

S/F/P Item	Year 0	Year 1	Year 2	Year 3	Year 4
Gross amount	1000	870	727	649.70	623.74
Impairment provision	-	(15.66)	(39.26)	(409.31)	(392.96)
Net carrying amount	1,000	854.34	687.74	240.39	230.78
S/P&L Item		Year 1	Year 2	Year 3	Year 4
Interest income		100	87	72.70	24.04
Impairment					
(provision) / reversal		(15.66)	(23.60)	(370.05)	16.36
Net effect to Profit		84.34	63.40	(297.35)	40.39

Illustration 3 – Impairment of Debt instrument carried at FVTOCI

Scenario - X Ltd purchased debentures DEF PLC at a price of 5,000. the coupon rate was 10% and the effective rate was 13%. The face value was 6,000

	Description	Amount (Rs')
Year 1	Opening balance	5,000
	Interest at 13%	650
	Coupon interest	(600)
	Closing balance	5,050

End of Year 1 –

The fair value of the debenture was 4,800 due to market circumstances.

X Ltd concludes that there's NO significant increase in credit risk and categorizes the debenture as Stage 1 -Performing financial asset. Therefore it measures expected credit losses based on 12 month ECL. The 12 month PD is estimated at 4% and life time PD is estimated at 12% LGD is estimated at 80%.

ECL = 5,050 x 4% x 80% = 161.6	Amortized cost after Impairment = 4,888.4
Amortized cost= 5,050Impairment provision= (161.6)Amortized cost after= 4,888.4impairment= 4,888.4	Fair value = 4,800 <u>FV</u> adjustment (loss) in <u>QCI</u> = (88.4)

	Description	Amount (Rs')
Year 2	Opening balance	5,050
	Interest at 13%	657
	Coupon interest	(600)
	Closing balance	5,107

End of Year 2 –

The fair value of the debenture was 4,850 due to market circumstances.

X Ltd concludes that there's NO significant increase in credit risk and categorizes the debenture as Stage 1 -Performing. Therefore it measures expected credit losses based on 12 month ECL. The PD is estimated at 5% and LGD is estimated at 80%.

ECL = 5,107 x 5% x 80% = 204.26

Amortized cost	= 5,107
Impairment provision	= (204.6)
Carrying amount after	= 4,902.24
impairment	

Carrying amount after Impairmen	nt = 4,902.24
Fair value	= 4,850
FV adjustment (loss) in OCI	= (52.24)

Summary of Financial statements

(provision) / reversal

Net effect to Profit

for the period

FV change in FA carried at FVTOCI

OCI

S/F/P Item	Year 0	Year 1	Year 2
Gross amount	5000	5,050	5,107
Impairment provision	-	(161.60)	(204.26)
Amortized cost	5,000	4,888.40	4,902.24
FV adjustments	-	(88.40)	(52.24)
FV / Carrying amount	5,000	4,800	4,850
S/P&L Item		Year 1	Year 2
Interest income		650	657
Impairment			

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(161.60)

488.40

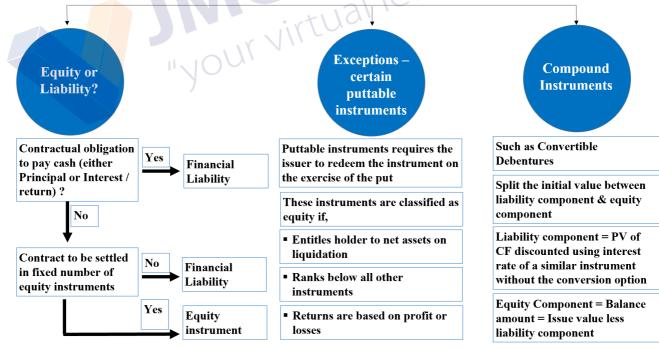
(88.40)

(42.66)

613.84

36.16

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Illustration

GEF Ltd on 1st Jan 2020 issued a debentures worth 10,000 at a coupon interest of 7% p.a. These debentures carry a conversion option where on the maturity date these can be converted to 100 shares or be settled in cash. The maturity date is 31st Dec 2023.

A debenture of a similar company without the conversion option would have a coupon interest of 10% p.a.

GEF incurred transaction cost of 100 on the issue of these debentures

Step 1 - Calculation of liability component

PV of CF discounted using interest rate of a similar instrument without the conversion option

Year		CF	DF @10%	PV
	1	700	0.909	636
	2	700	0.826	579
	3	10,700	0.751	8,039
		· · · ·		9,254

Step 2 - Calculation of equity component The balance amount 10,000 - 9,254 = 746

<u>Step 6 – Subsequent accounting for liability</u> <u>component</u>

Date	Description	Amount
1.1.2020	Opening balance	9,161.46
2020	Interest at 10.40%	952.37
31.12.2020	Coupon interest payment	(700)
31.12.2020	Balance //	9,413.83
	,	
2021	Interest at 10.40%	978.60
31.12.2021	Coupon interest payment	(700)
31.12.2021	Balance	9,692.43
2022	Interest at 10.40%	1,007.57
31.12.2022	Coupon interest payment	(700)
31.12.2022	Balance	10,000.00

<u>Step 3 – Allocation of transaction cost between</u> equity and liability components

To liability component = 100 x (9,254/10,000) = 92.54 To equity component = 100 x (746/10,000) = 7.46

<u>Step 4 – Recalculate effective interest rate on</u> <u>liability component</u>

Initial value of liability component = 9,254 – 92.54 = 9,161.46

Effective rate that makes PV of CF equal to 9,161.46 = 10.40%

<u>Step 5 – Accounting for the instrument on the issue</u> <u>date</u>

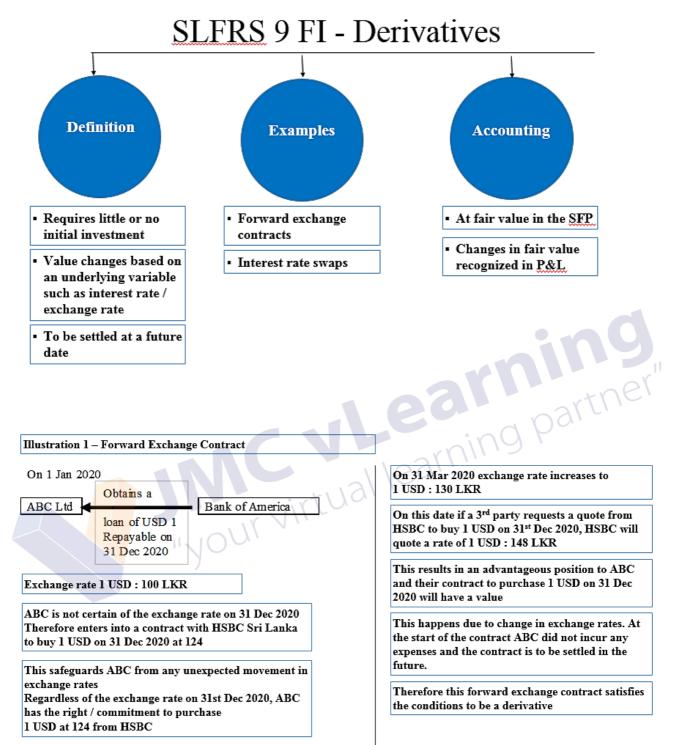
	Cash Liability – Debenture Equity option Retained earnings	Dr 10,000 Cr Cr Dr	- 100 = 9,900 = 9,161.46 = 746 = 7.46
	ar	niľ	tner"
t 46 37 00)	earning) pa	

<u>Step 7 – Financial statements extract</u>

S/F/P as at	1.1.2020	31.12.2020	31.12.2021	Before settlement 31.12.2022	Option 1 - Settlement - by Cash	Option 2 - Settlement - by shares
Assets	1112020	0111212020	0111212021	01112.2022		by shares
Cash	+ 9,900				(-) 10,000	-
Equity						
						XXX + 10,000 +
Share capital	XXX					746
Retained earnings	XXX - 7.46				XXX + 746	XXX
Equity option	746	746	746	746	-	-
Liabilities						
Debentures	9,161.46	9,413.83	9,692.43	10,000	-	-

Debentures	9,161.46	9,413.83	9,692.43	10,000	-	-
S/P&L for the						
year ended		31.12.2020	31.12.2021	31.12.2020	Total	
-						artri
Finance cost					. ad f)a'
Interest on				x Y	ing '	•
debentures		(952.37)	(978.60)	(1,007.57)	(2,938.54)	
			181			
Profit before tax		XXX	XXX	XXX	XXX	

SLFRS 9 – Derivatives

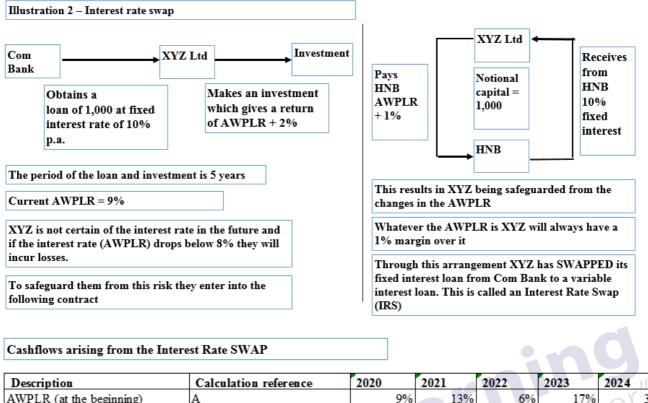


Summary of Financial statements

	Calculation	As at 1	As at 31	As at 30	As at 30	As at 31
Description	reference	Jan 2020	Mar 2020	June 2020	Sep 2020	Dec 2020
Exchange rate 1 USD : LKR	А	100	130	140	132	150
Forward exchange rate to buy						
1 USD on 31 Dec 2020	В	124	148	152	138	150
Contracted rate by ABC Ltd	С	124	124	124	124	124
Value of the forward						
exchange contract	D = B - C	-	24	28	14	26
Amount of USD contracted to						
purchase	Е	1	1	1	1	1
T otal value of the contract	F = D x E	-	24	28	14	26
	G =					
	Change in					
Change in fair value	value of F		24	4	(14)	12

S/F/P as at		As at 1 Jan 2020	As at 31 Mar 2020	As at 30 June 2020	As at 30 Sep 2020	As at 31 Dec 2020
Assets						
Derivative Asset	F	-	24	28	14	26
Liabilities						vtr
	H = A x Loan				. 0	SIL,
FCY Loan	amount	100	130	140	132	150
					19	

S/P&L for the quarter			31 Mar	30 June	30 Sep	31 Dec	Total
ended			2020	2020	2020	2020	for 2020
		:rtU	0,				
Other income and expenses							
FV change in derivative	I = G		24	4	(14)	12	26
	J = Change in						
Exchange gain / (loss) on	value of FCY						
FCY loan	loan		(30)	(10)	8	(18)	(50)
Net effect to profit for the							
period	$\mathbf{K} = \mathbf{I} + \mathbf{J}$		(6)	(6)	(6)	(6)	(24)



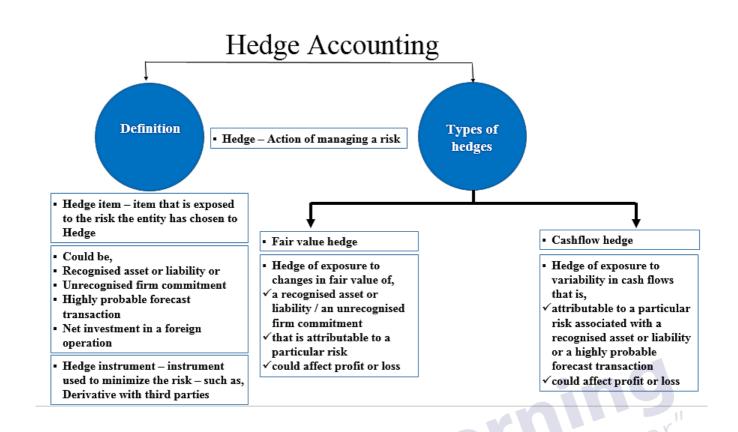
AWPLR (at the beginning)	A	9%	13%	6%	17%	3%
Income - Interest received					vtl	16,
From Investment - AWPLR + 2%	B = 1,000 x (AWPLR + 2%)	110	150	80	190	50
From HNB - Fixed at 10%	C = 1,000 x 10%	100	100	100	100	100
				191		
Expense - Interest paid 📃 🛁		102	()			
To Com Bank - Fixed at 10%	D = 1,000 x 10%	(100)	(100)	(100)	(100)	(100)
To HNB - AWPLR + 1%	E = 1,000 x (AWPLR + 1%)	(100)	(140)	(70)	(180)	(40)
Net effect to Profit for the	$O \cap \cdot$					
p erio d	$\mathbf{F} = \mathbf{B} + \mathbf{C} + \mathbf{D} + \mathbf{E}$	10	10	10	10	10

Measuring and accounting for the FV changes in the IRS

Description	1.1.2020	31.12.2020	31.12.2021	31.12.2022	31.12.2023	31.12.2024
FV or IRS - Asset / (Liability)	-	(120)	75	(150)	60	-
FV change to be recognized in						
P&L		(120)	195	(225)	210	(60)

Generally measured at PV of expected cash flows from the IRS

Cashflows could either be positive or negative. If expected cash flows are positive the FV of the IRS is an Asset and if the expected cashflows are negative the FV of the IRS is a liability



Hedge Accounting

Accounting

Hedge accounting is voluntary

Fair value hedge –
e.g.- FV hedge on bond prices

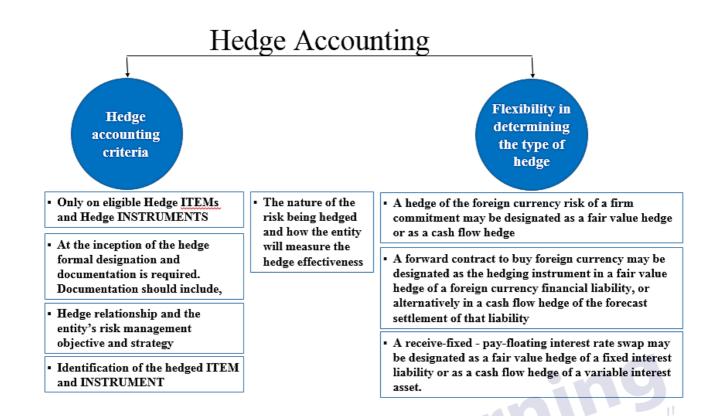
- Change in <u>FV</u> of Hedge Item and Hedge Instrument accounted in <u>P&L</u>
- Except where the hedge item is an equity instrument where the entity has chosen the <u>FVTOCI</u> option – in this case the <u>FV</u> changes are reflected in <u>OCI</u>
- No segregation as effective and ineffective

Cashflow hedge –

- E.g.
- using an interest rate swap to hedge the interest rate risk of a floating rate interest-bearing asset or liability
- using a forward contract to hedge the foreign currency risk of foreign currency denominated future operating lease or payroll payments;
- using a forward contract to hedge the commodity price risk of highly probable forecast purchase or sale transactions.

Change in <u>FV</u> of Hedge Item and Hedge Instrument accounted in <u>OCI</u> – if EFFECTIVE

- If INEFFECTIVE the ineffective portion is transferred to P&L
- A <u>CashFlow</u> Hedge Reserve (<u>CFHR</u>) is created in equity which will be the lower of (in absolute amounts)
- ✓ Cumulative gain/loss on the hedge INSTRUMENT from inception of the hedging relationship
- ✓ Cumulative change in FV of the Hedge ITEM from inception of the hedging relationship
- The remaining component of FV change after adjusting the CFHR as above is recognized in P&L – this is the INEFFECTIVE portion



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