REDEMPTION BY SINKING FUND DR BACHHA KUMAR RAJAK B.M.COLLEGE RAHIKA MADHUBANI

Under this method of redemption, every year a part of the profit (fixed amount) is set aside and sinking fund (Debenture Redemption Fund) is created. Sinking fund I invested in outside securities. The interest received o such investments along with the amount set aside from profit will again be invested as usual. It continues till the date of redemption of debenture. The investment will be sold and the cash thus realized will b used to repay the debentures. Under this method, sinking fund A/c (Debenture Redemption Fund A/c) and sinking fund investment A/c (Debenture Redemption Fund Investment A/c) will be opened. After the redemption, balance of sinking fund A/c is transferred to general reserve. The following entries are required under this method.

At the end of first year:

i.	For the amount set aside every year	
	P & L Appropriation A/c	Dr
	To Sinking Fund A/c	
ii.	For investment of sinking fund	
	Sinking Fund Investment A/c	Dr
	To Bank A/c	
At th	e end of second and subsequent years:	
i.	For interest received on investment	
	Bank A/c	Dr
	To Interest on Sinking Fund Inves	stment A/c
ii.	For transferring interest to sinking fund	
	Interest on Sinking Fund Investment A/c	c Dr
	To Sinking Fund A/c	
iii.	For annual amount set aside	

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	P & L Appropriation A/c To Sinking Fund A/c	Dr
iv.	For investment of annual installment and i	nterest
10.	Sinking Fund Investment A/c	Dr
	To Bank A/c	
At the	end of last year:	
	All the entries except entry (iv) in second a	nd subsequent year should be passed.
i.	For amount realized on sale of investment	
	Bank A/c	Dr
	To Sinking Fund Investment A/c	
ii.	For profit on sale of investment	
	Sinking Fund Investment A/c	Dr
	To Sinking Fund A/c	
	(Note: if loss the above entry is reversed)	
iii.	For amount due to debenture holders	
	Debentures A/c	Dr
	Premium on redemption A/c	Dr (if redemption at premium)
	To Debenture holders A/c	
iv.	For amount paid to debenture holders	
	Debenture holders A/c	Dr
	To Bank A/c	
۷.	For transfer of balance in sinking fund A/c	
	Sinking Fund A/c	Dr
	To General Reserve A/c	
	To General Reserve A/c	

Illustration 19

On 1 January 2007, Balu Ltd issued 1000, 6% debentures of Rs.100 each repayable at the end of 4 year at a premium of 10%. It is decided to create a sinking fund for the purpose; the investment is expected to yield 5% net. Sinking fund table shows that Re.0.232012 invested annually amounts to Re.1 at 5% in 4 years. Investments were made in multiples of 100 only. On 31 December 2010, the balance at the bank was Rs.40000 and the investment realized Rs.82000. the debentures were paid off. Give journal entries and show ledger accounts except for debenture interest.

Solution:

	Amounts annually set aside – (100000+1	Lo % premium	JX 0.2	.32012 = K3.2332	1
2007	Bank A/c	Dr		100000	
Jan 1	Loss on issue of debentures A/c	Dr		10000	
	To 6% Debentures A/c				100000
	To premium on redemption o	f			10000
	debentures A/c				
	(issue of 1000, 6% debentures of Rs	.100 each			
	redeemable at 10% premium)				
Dec	P & L Appropriation A/c	Dr		25521	
31	To Sinking Fund A/c				25521

Amounts annually set aside = (100000+10% premium)x 0.232012 = Rs.25521

	(Transfer of profit to sinking fund)	25500	
		25500	25500
	Sinking Fund Investment A/c Dr		23300
2008	To Bank A/c	1275	
Dec	(investment made to nearest multiple of 100)		1275
31	Bank A/c Dr		
	To Interest on Sinking Fund Investment A/c	1275	
	(interest received @ 5% on investment)		1275
	Interest on Sinking Fund Investment A/c Dr		
	To Sinking Fund A/c	25521	
	(transfer of interest to sinking fund)		25521
	P & L Appropriation A/c Dr		
	To Sinking Fund A/c	26800	
	(Transfer of profit to sinking fund)		26800
	Sinking Fund Investment A/c Dr		
	To Bank A/c	2615	
	(investment with interest 25521+1275)		2615
	Bank A/c Dr		
2009	To Interest on Sinking Fund Investment		
Dec	A/c	2615	
31	(interest received @ 5% on investment)		2615
	Interest on Sinking Fund Investment A/c Dr		
	To Sinking Fund A/c	25521	
	(transfer of interest to sinking fund)		25521
	P & L Appropriation A/c Dr		
	To Sinking Fund A/c	28100	
	(Transfer of profit to sinking fund)		28100
	Sinking Fund Investment A/c Dr		
	To Bank A/c	4020	4020
	(investment with interest 25521+2615)		4020
	Bank A/c Dr	4020	
	To Interest on Sinking Fund Investment A/c	4020	4020
2010	(interest received @ 5% on investment)		4020
2010 Dec	Interest on Sinking Fund Investment A/c Dr	25521	
31	To Sinking Fund A/c	25521	25521
21	(transfer of interest to sinking fund)		25521
	P & L Appropriation A/c Dr		
	To Sinking Fund A/c	82000	
	(Transfer of profit to sinking fund)	02000	82000
	Bank A/c Dr		02000
	To Sinking Fund Investment	1600	
	A/c (sale of investment)		

Sinking Fund Investment A/c Dr			1600
To Sinking Fund A/c			
(transfer of profit on sale of investment)		100000	
6% Debentures A/c Dr	1	10000	
Premium on redemption of debentures A/c Dr			110000
To Debenture holders A/c		110000	
(amount due to debenture holders)			110000
Debenture holders A/c Dr			
To Bank A/c		10000	
(amount paid to debenture holders)			10000
Sinking Fund A/c Dr			
To loss on issue of debentures A/c		101594	
(redemption provided out of sinking fund)			101594
Sinking Fund A/c Dr			
To General Reserve A/c			
(transfer of balance in sinking fund A/c to GR)			

6% Debentures A/c

			-		
2007			2007		
Dec 31	To Balance c/d	100000		By Bank	100000
2008 Dec 31	To Balance c/d	100000	2008 Jan 1	By Balance b/d	100000
2009			2009		
Dec 31 2010	To Balance c/d	100000	Jan 1 2010	By Balance b/d	100000
Dec 31	To Debenture holders	100000	Jan 1	By Balance b/d	100000
	A/c				

Premium on Redemption of debentures A/c

2007			2007	By loss on issue of	
Dec 31	To Balance c/d	10000		debentures A/c	10000
2008 Dec 31 2009	To Balance c/d	10000	2008 Jan 1 2009	By Balance b/d	10000
Dec 31 2010	To Balance c/d	10000	Jan 1 2010	By Balance b/d	10000
Dec 31	To Debenture holders	10000	Jan 1	By Balance b/d	10000
	A/c				

Debenture holders A/c

2010			2010	By 6% Debentures	
Dec	To Bank A/c	110000	Dec 31	A/c	100000
31				By premium on	
				redemption of	10000
		110000		debentures A/c	110000

_	Sinking Fund A/c							
2007	To Balance c/d	25521	2007	By P&L Appn A/c	25521			
Dec			Jan 1	By Balance b/d	25521			
31				By interest on S.F.I	1275			
	To Balance c/d	52317		By P&L Appn A/c	25521			
		52317			52317			
2008				Du Dalawaa k (d	52317			
Dec		80453	2008 Jan 1	By Balance b/d	2615			
31	To Balance c/d			By interest on S.F.I	25521			
			Dec 31	By P&L Appn A/c				
		80453			80453			
	To loss on issue of		2009	By Balance b/d	80453			
2009	debentures	10000		By interest on S.F.I	4020			
2009 Dec 31	To general reserve			By P&L Appn A/c	25521			
Dec 31	(balance transferred)	101594	Dec 31	By S.F.I(profit on	1600			
		111594		sale)	111594			
				Suc)				

Sinking Fund Investment A/c

2007 Dec 31	To Bank	25500	2007 Dec 31	By Balance c/d	25500			
2008	To Balance b/d	25500						
Jan 1 Dec 31	To Bank	26800	2008 Dec 31	By Balance c/d	52300			
		52300			52300			
		52300						
2009 Jan 1	To Balance b/d	28100	2009		80400			
Dec 31	To Bank	80400	Dec 31	By Balance c/d	80400			
2010 Jan 1	To Balance b/d	80400						
Dec 31	To Sinking Fund A/c	1600	2010	By Bank	82000			
	(profit)	82000	Dec 31	by bank	82000			

			Bank A/c			
	2010			2010	By Debenture	
D	Dec 31	To Balance b/d	40000	Dec 31	holders A/c	110000
		To S.F.I A/c	82000		By Balance b/d	12000
			122000	1		122000