

Islamic house financing: Current models and a proposal from social perspective

Hasan, Zubair

INCEIF the Global University in Islamic Finance, Malaysia

10 August 2011

Online at https://mpra.ub.uni-muenchen.de/32792/MPRA Paper No. 32792, posted 14 Aug 2011 09:36 UTC

Diminishing Balance Model for Islamic home finance: Final version ¹

Zubair Hasan

Professor of Economics and Finance, INCEIF Global University of Islamic Finance

Abstract

This brief note supplements the argument of an earlier paper *Islamic Home Financing: Current Models and a Proposal from Social Perspective*"; it explains that the *Diminishing Balance Model* for Islamic home financing is operable in a Shari'ah compliant way even without the Islamic Banking laws accommodating the notion of constructive ownership as envisaged earlier. It further clarifies how the new model scores over the models currently being used for the purpose.

Key words: Islamic home finance; interest based model; MMP model; Diminishing Balance model.

1. Introduction

Shelter is one of the basic needs for human beings. Islamic banks have of late entered the field of home financing with various schemes. Of the models they are currently using for the purpose BBA has been relatively popular but attracted also the more of criticism the others invited. This led, of late, to a drift in favor of *musharakah mutanaqisah partnership* arrangements commonly abbreviated as the MMP model. Even though the MMP is also not found entirely free of legal blemishes, its use is on the rise. I have demonstrated in an earlier paper that concerns about MMP looking alike with -- rather worse than -- the interest based home financing, especially from the buyers' viewpoint, is growing faster than the worries surrounding its juridical compliance. Searching for a better alternative, I erected one that was in my opinion better than the other in uses. This I named as the *Diminishing Balance Model* or the DBM.

A simple illustration was used with identical details applying in each case for ensuring the compatibility of results. The skeleton assumed that a person wants to purchase an already built house from a seller, its cash down price being RM 100,000. He pays RM 20,000 as earnest money to the seller with a promise to clear the balance in three month. He thus needed RM 80.000 to meet the deadline. In search of the cheapest terms

¹ This brief note is in continuation of my earlier article published in the January-March 2011 issue of this Journal under the title *Islamic house finance: Current Models and a proposal in a social context.* Another version of the paper has appeared in the *ISRA : International Journal of Islamic Finance*, vol. 3, no. 1, June, 2011, To make this note self-cntained, three explanatory tables from these papers appear as appendix.

available (faith not affecting his choice), he approaches two banks, one conventional and the other Islamic. The customer plans to clear the amount payable under the contract with the financing bank in 10 years, spread over 20 six-monthly installments.

The conventional bank offers to meet his conditions at 8% interest a year plus a capital redemption factor of 6.71%. The overall annual rate would thus be 14.71%, the sixmonthly charge being half or 7.355%. Each installment at that rate turns out to be equal to (80,000 x 0.07355) or RM5,884 The bank terms also say that all interest payments would stop if the outstanding amount is fully paid on any date prior to the expiry of the stipulated 10 year period. The house is registered in the name of the customer and he simultaneously mortgages it with the bank as security.

The Islamic bank also agrees to the payment scheme of the customer but shuns interest. It offers him a *Diminishing partnership scheme* or what is described as the MMP model. Here the bank and the customer start with a co-ownership of the house the customer buying away the bank's share in installments via a sharing of rent plan. Under the plan the customer pays installments designed for clearing the debt as also give a return to the bank. The bank would not only receive part of the rent proportionate to its own share in the house at any point in time but also get the part of rental accruing to the customer. Consequently, with each installment payment the bank's share in the house ownership will decrease by the amount of his rental share surrendered to the bank. That would progressively increase the rental share of the customer and help him reduce the debt at an increasing rate so that it is fully cleared on the due date. The parties agree to a rental value of 8% per annum for the house.

However, as the customer's surrender of his part of the rental to the bank will not be enough to redeem the amount, a redemption factor of 6.71% would be added to the 8% rental giving an overall six-monthly charge of 14.71 / 2 = 7.355%. Note that the annual rate – rent plus redemption – is to be halved for half yearly payments. This would fix the installment at $80000 \times 0.07355 = RM 5884$: the same as in the case of the conventional bank. Since the entire rental goes to the bank the redemption component in the

installment will be 5884 - 4000 = RM 1884; It can be viewed as the price of one unit of bank's ownership the customer is obliged to buy each six months the remaining RM 4000 (i.e. 80000 / 20) in the installment being the capital repayment component.

To set the stage for final comparison, let us explain briefly the working of our *Diminishing Balance Model* the DBM. We continue with our illustration. The bank proposes to the customer as follows. We will pay RM 80000 the balance to the seller for the house. He will get a sale deed prepared in our names showing ownership division as 20% for you and 80% for the bank. The bank would sell its share to you for 80,000 plus an annual 8% mark-up on its share in the property cost. However, the amount will be calculated on a diminishing balance principle as is at times done in accounting for depreciation provision. The starting point will of course be [80,000 + (80,000 x 08 x 10)] = RM 144,000. That would help progressively reduce your liability to the bank. The registration of the house in the court will be in your name but you will have to sign simultaneously a mortgage deed pledging the property with the bank as security until installments have all been cleared in full. The Figure below explains the working of the model. It may be noted that four separate contracts are involved in completing the sale-payment process.

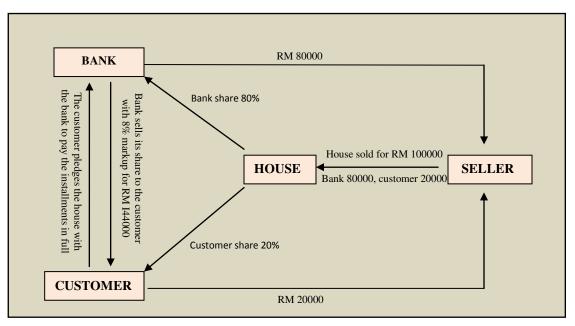


Figure 1: Diminishing Balance Model: operation

- 1. First is a contract for joint ownership of the asset involving three parties: the bank, the customer and the seller. The seller promises to sell a house to the co-ownership of the bank and the customer on a three month deferred payment with a non-refundable earnest money deposit of RM 20,000. The customer agrees to pay the earnest money on behalf of the partners.
- 2. Second is a sale contract for joint ownership of the asset involving three parties: the bank, the customer and the seller. The seller sells the house to the co-ownership of the bank and the customer after the latter pays the balance of RM 80,000 to the seller to acquire an 80% share in the property
- 3. Third contract is between the customer and the bank, the latter selling his share in the property to him with an agreed mark-up spread at 8% a year on the outstanding amount.
- 4. Fourth is a contract whereby the customer mortgages the house with the bank until the payments are all cleared in accordance with the terms of the mortgage.

Table 1: Returns under each Model

	RM			
Installment	Conventional	MMP	DBM	Difference
number	Interest	Rent	Mark-up	MMP - DBM
1	3200	3200	3200	0
2	3093	3093	3040	53
3	2981	2981	2880	101
4	2865	2865	2720	145
5	2744	2744	2560	184
6	2619	2619	2400	219
7	2488	2488	2240	248
8	2352	2352	2080	272
9	2211	2211	1920	291
10	2064	2065	1760	305
11	1911	1912	1600	312
12	1752	1752	1440	312
13	1587	1588	1280	308
14	1416	1415	1120	295
15	1236	1236	960	276
16	1050	1051	800	251
17	857	856	640	216
18	656	656	480	176
19	447	447	320	127
20	229	230	160	70
Sub-total	37757	37757	33,600	4157
Residual	75	89	00	89
Total	37832	37846	33,600	4246

The last three contracts are to be executed simultaneously. The house is to be registered in the name of the customer. The customer now compares the three models to make a choice. To help him, let us place side by side in Table 1 the amounts he would have to pay as return to the bank in addition to the capital component in the installments in each case.

Table 2: Comparison of competitive house financing models

Model Description	% of finance provided	Nature of installments	Residuals RM	Profit of the financier
1. Conventional	80%	Uniform	75.0	4.73%
2.Diminishing partnership	80%	Uniform	89.0	4.73%
3. Diminishing balances	80%	Diminishing	0.00	4.20%

The installments are uniform in the first two cases because of the addition of a capital redemption factor (6.71%) to 8%. But uniformity is no virtue as it has a cost. Its absence makes the DBS a cheaper finance model for the customer in terms of cost by 0.53%. See the difference column in Table 1². The DBS is simple for the customer to understand. It is straight forward, transparent and equitable; it does not bring in interest from the back door. Compare payments of the conventional model and the MMP in the Table; why are they identical? The model makes the banks at once Shari'ah compliant. Charging lower cost, they must attract more business than the conventional banks. It offers a big incentive for non-Muslims' diversion to Islamic banking.

Acknowledgement

The author is benefitted by the illuminating comments of Dato'Agil Natt the former president and CEO of INCEIF on an earlier draft. He is also grateful to his ex-student Dr. Mustafa Omar Mohammad of IIUM, Kuala Lumpur for reformulating the four Shari'ah related statements on page 4 above. However, the usual disclaimer applies.

References

Hasan Zubair (2011): Islamic house financing: Current models and a proposal from social perspective, Journal of Islamic Banking & Finance, Karachi, Vol. 23, No. 1 January-March.

 $^{^2}$ Total difference over the 10 years is 4257. Thus per year difference RM 425.7 over 80,000 = 0.53%

Hasan Zubair (2011): *Islamic home finance in the social mirror*, ISRA: International Journal of Islamic Finance, Vol. 3, No.1 June

APPENDIX

Conventional Bank

Conventional Dank						
S. N0.	Installment	Interest	Principal	Balance		
1	5884	3200	2684	77316		
2	5884	3093	2791	74525		
3	5884	2981	2903	71622		
4	5884	2865	3019	68603		
5	5884	2744	3140	65463		
6	5884	2619	3265	62198		
7	5884	2488	3396	58802		
8	5884	2352	3532	55270		
9	5884	2211	3673	51597		
10	5884	2064	3820	47777		
11	5884	1911	3973	43804		
12	5884	1752	4132	39672		
13	5884	1587	4297	35375		
14	5884	1415	4469	30906		
15	5884	1236	4648	26258		
16	5884	1050	4834	21424		
17	5884	857	5027	16397		
18	5884	656	5228	11168		
19	5884	447	5437	5730		
20	5884	229	5655	75		
Total	117680	37757	79923			

TABLE 2The MMP Model

	Rental Division		Customer's	Bank's
Installment	Customer	Bank	Equity	Equity
Number			RM	RM
0			20000.0	80000.0
1	800	3200	22684.0	77316.0
2	907	3093	25475.4	74524.6
3	1019	2981	28370.4	71629.6
4	1135	2865	31389.2	68610.8
5	1255	2744	34528.8	65471.2
6	1381	2619	37793.9	62206.1
7	1512	2488	41189.7	58810.3
8	1648	2352	44721.3	55278.7
9	1780	2211	48386.1	51613.9
10	1935	2065	52205.5	47794.5
11	2086	1912	56175.7	43624.3
12	2247	1753	60306.7	39693.3

13	2412	1588	64602.7	35397.3
14	2584.1	1416	69070.8	30929.2
15	2763	1237	73717.6	26282.4
6	2949	1051	785653	21449.7
17	3143	857	83591.9	16408.1
18	3344	656	88819.6	11180.4
19	3553	447	94256.4	5743.6
20	3770	230	99910.6	89.4
Total	42243	37757		

Table 3: Diminishing Balance Model

Table 3. Diffinishing Balance Wodel						
Installments	Return of capital	Diminishing balance	Mark-up on C 8%	installment Payments		
A	В	С	D	E = B + D		
0	0	80000				
1	4000	76000	3200	7200		
2	4000	72000	3040	7040		
3	4000	68000	2880	6880		
4	4000	64000	2720	6720		
5	4000	60000	2560	6560		
6	4000	56000	2400	6400		
7	4000	52000	2240	6240		
8	4000	48000	2080	6080		
9	4000	44000	1920	5920		
10	4000	40000	1760	5760		
11	4000	36000	1600	5600		
12	4000	32000	1440	5440		
13	4000	28000	1280	5280		
14	4000	24000	1120	5120		
15	4000	20000	960	4960		
16	4000	16000	800	4800		
17	4000	12000	640	4640		
18	4000	8000	480	4480		
19	4000	4000	320	4320		
20	4000	0	160	4160		
Total	80,000		33,600	113,600		