

Reverse Mortgage- Growing Market in India

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Abstract

With National Housing Bank coming up with the guidelines for Reverse Mortgage Products and some banks offering the product to the customer, the market for RM is bound to grow in India. The paper tries to explain what really is reverse mortgage and how it is relevant for Indian market today. The paper also describes the various risks involved in offering this product and the methodologies which the providers can apply to mitigate those risks. In the end the paper tries to explore the role of life insurers in this market.

Introduction

With the growth of the ageing population, old age security has become one of the prime concerns for the Indian government. The PFRDA Bill and other such measures provide a solid ground for this assumption. Even the establishment of IIMPS for micro pensions for the people of the unorganized sector is in the same direction.

All these measures are good for people who are into their working life and thus can save for their retirement now. But one of the segments which have been left is the one who are in their retirement phase and who may not have enough cash to sustain their life. Pension by Central and State Governments are not enough to sustain them. These people may not have enough income or saving in cash but may have assets which may not be providing income. To overcome this problem, The National Housing Bank, apex body on housing finance in India, came out with its guidelines on reverse mortgage in early 2007. Some of the public sector banks and one private housing finance company have already come up with their products and the market in India started growing.

The Objective

The objective of this paper/presentation is to provide an overview of the reverse mortgage market with some reference to international markets like USA and UK. The risks involved in the market/Products and how actuaries can provide their professional contribution in the development of the market and risk management. But first we need to understand what really is meant by reverse mortgage.

What is Reverse Mortgage?

A simple definition of reverse mortgage can be

“A reverse mortgage is a loan available to seniors and is used to release the home equity in the property as one lump sum or multiple payments. The homeowner's obligation to repay the loan is deferred until the owner dies, the home is sold, or the owner leaves (e.g., into aged care)”

The analysis of definition provides some basic features of reverse mortgage products. These are

- The loan is available only to senior citizens owning a home
- The loan can be in the form of Lump-sum or multiple payments like annuity etc
- Homeowner does not have obligation to repay the loan till the house is his prime residence

- The payback is done once the owner dies or leaves the house. This is done through selling the house and recovering the loan through its proceeds.

Thus a home owner going for reverse mortgage may take his payment in the following form.

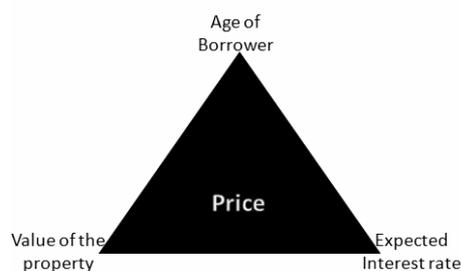
- A lump sum at the beginning (can be used for home improvement health expenses etc)
- Monthly payments till a fixed term
- Monthly payments as a life-long annuity
- Establishing a credit-line with or without accrual of interest on credit balance
- A combination of the above

Some lenders have come out with plans different from the above to suit the requirements of the borrowers. Some of such plans are

1. **Home Reversion / Sale and Lease Back-** The homeowner sells the house but keeps the right to live in the house till the time it is his prime residence. The amount could be used for home improvement, any other health need etc.
2. **Interest-only Mortgage-** The borrower takes lump sum and pays only interest during his lifetime. The principal is recovered through the sale of the home
3. **Mortgage Annuity/ Home Income-** The loan is used to purchase an annuity for the homeowner. The advantage is that even if the homeowner moves out of the home, the annuity will continue till his death
4. **Shared Appreciation Mortgage-** This provides loans at a below market interest rate.. In return, the lender gets a pre-agreed share in any appreciation in the property value over the accumulated value of the loan.

The various considerations which needs to be taken while pricing a product of this nature are

- **Age of the borrower-** If it is a joint borrowing then the age of the younger borrower is considered.
- **Value of the property-** Then value of the property plays a major role in determining the price for an RM product
- **Expected Interest Rate-** As the product resembles the normal annuity product in some sense, the current and expected interest also plays a major role in pricing the product



As can be seen from the above, we can find that the product has taken many forms during its evaluation. But is there a real need of reverse mortgage in India?

Significance of Reverse Mortgage Market for India

The society in India has under-gone huge changes in last 4-5 decades. Nuclear family has replaced the joint family system. The system of family supporting the older people has gone. As mentioned earlier the public pension system has not been able to provide an alternate support to old people. This condition leaves the older people in jeopardy. They face following issues

- Outliving their retirement income
- Depending on their children to help pay expenses
- Getting sick and having no way to pay the expenses
- Not being able to guarantee an income for their spouse after they are gone
- Being able to live as long as they like in their own home

Looking at the current situation, the needs for a product which can help these people to solve some of these problems is always a welcome step. Reverse mortgage or equity release products tries to answer all these problems. Every Indian, irrespective of its income level tries to build a home for himself during his working life. Reverse mortgage will give him/her an opportunity to generate income from that very home. As the ownership remains with the borrower, he can transfer the home to his successors also if the later agrees to pay the loan amount. Such a product relieves the pressure on government also to provide old age security and thus government also needs to support such initiative.

Many economies have been benefited from this arrangement and the market for such products has increase quite a lot in these markets. Two such examples are the UK and the USA market.

Reverse Mortgage in Developed Markets

UK

The market for reverse mortgage or Equity Release as it is known in the UK has been growing very fast. The following tables provides an overview of the market and its 10 fold growth within a span of 5 years

Value of new business in year (£m)

| | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|-----------------|------|------|------|------|------|------|
| Mortgage Sales | 6 | 85 | 297 | 359 | 651 | 1032 |
| Reversion Sales | 121 | 155 | 227 | 213 | 201 | 129 |
| Total | 127 | 240 | 524 | 572 | 852 | 1161 |

(Source: SHIP)

There are around 40 providers in the market. Some of the players who have been frontrunner in this market are Abbey, Northern Rock, Norwich Union, Prudential and Standard Life bank.

USA

In US, traditionally mostly reverse mortgages are government backed loans, but now around a dozen other players have also entered into the market.

Today, in US about 90% of reverse mortgages are the traditional government-backed product, the most prevalent of which is the Federal Housing Administration's home equity conversion mortgage

Borrowers have taken out about 71,500 new FHA-based reverse mortgages in the first 8 months of this fiscal year 2007-08 so far, a 49% jump from about 48,000 loans in the same period a year earlier. From 1990 through to the present, about 310,000 such loans have been taken out

US property stock is estimated at around \$12 trillion, out of which at present reverse mortgage accounts for only 1%, but its pace of growth in recent year is about 5 times the traditional mortgage.

Risk inherent in the Reverse Mortgage Product

Any financial product involves some risk and reverse mortgage is no exception. The lender faces many type of risk for this product. Some of these risks are

Longevity Risk- The lender has to provide the payment upfront either lump sum or instalments as the case may be but gets his money back only when the borrowers dies or move into another residence. As we are aware that the life expectancy of people is increasing, the risk of late recovery of loans is a big risk for the lenders.

The risk is aggravated by the fact that with the payments from reverse mortgage, the lifestyle of the borrower gets better which may become one of the contributors in the improvement of longevity.

The longevity risk is higher for reverse mortgage where the payment is continued till the death of the borrower since not only the recovery gets delayed but also the lender has to make payments for a longer time,

Interest Rate Risk- The payments to the borrower in case of a reverse mortgage is fixed, either for a term or lifetime but the cashflows for the lender may not be fixed and are dependant on the interest rate market. Thus the lender runs the risk that the interest rates in the market may move in the opposite direction of that the lender anticipated.

Market Risk (Property Value Risk)- The lender in a reverse mortgage **can** claim back his loan only from the property on which the loan has been granted. He does not have recourse to any other asset of the borrower. If the sales proceeds of the home are not sufficient, the lender cannot clam the balance from the heirs of the borrower. This gives rise to the risk of adverse movement in property market which affects the profitability of the product. Though this risk can be diversified with increasing the geographical reach of the operations of the lender but the risk still remains

Early Redemption Risk- Some of the reverse mortgages loans may give the borrower an option of repay the loan at any point of time. This leads to another risk for the lender of early redemption as the borrower will pay back the loan when it is most beneficial to him which in most cases does not coincide with the interests of the lender. In case the lender has securitised the loan, which in most of the cases it is, the risk becomes higher as the lender cannot closer its position in this case.

Adverse selection and moral hazard risk- As with insurance products, reverse mortgage products also have the scope of adverse selection i.e. only people with expected higher longevity may go for such products. Also as the borrower has really no incentive for keeping the house in

proper condition as the risk is borne by the lender, it may lead to depreciation of value of the property.

Condemnation/ Sovereign takeover of the property by a government agency. The asset available to the lender is the house and if there are changes like takeover of property by the government for development purposes etc, the lender is the loser

But as spillover/multiplier effect of releasing the equity value of houses is very large as total household stock in a country ranges between 100% and 150% of GDP, it is good if home equity conversion products become a success in India as it can provide a strong dynamism to the economy by unlocking the illiquid wealth represented in India's stock of owned houses. Therefore, this market should be looked at favourably both by the regulators and market participants.

Risk Mitigation

Risk mitigation is the key for the success of any financial product including reverse mortgage. Some of the risk mitigation techniques which the providers can apply to reduce the risk on their books

- **Proper eligibility criterions-** The first mitigation of risk can be done at the time of providing loans. This can be done through proper verification of the title of the property, age of the borrower; his/her credit analysis etc. This reduces the risk of default by the borrower
- **Variable interest rates loan as compared to fixed interest rate loan-** To avoid interest rate risk, the lender can go for variable interest rates based on some market benchmark like MIBOR. This will also reduce the risk of Pre-payment as the borrower will not have interest arbitrage on prepayment of the loan
- **Proper analysis of mortality trends-** As the product has significant longevity risk, the lender can do a detailed mortality trend analysis on a macro level and also in the market where it is operating.
- **Geographical diversification-** the lender can look at spreading the business across the country by promoting the product in secondary and tertiary cities also so that the law of large numbers may work properly and if the provider has a bad experience in one market, it can be compensated with good experience in other cities
- **Develop the product for lower age groups-** The lender can develop home equity conversion mortgages for all households and not just for elderly. This will significantly reduce loan to value ratio and that will take care of many of the risks inherent in the product.
- **Securitization-** One of the most effective ways of mitigation risk is securitization It involves many other financial players and thus it spreads the risk of default/prepayment to many other participants. USA has a history of eight year of securitisation of its Reverse Mortgage. One of the recent innovations has been Ginnie Mae's Mortgage Backed Securities for HECM loans. This has helped Ginnie Mae to securitize the Home Equity Conversion Mortgage loans and had a good response from the market.
- In the Repayment schedule, some default conditions or changes that affect the security of the loan for the lender that can make reverse mortgages payable should also be added, like:
 - Declaration of bankruptcy;
 - Donation or abandonment of the house;
 - Condemnation/ Sovereign Takeover of the property by a government agency;

- Adding a new owner to the home's title;
- Taking out new debt against the home etc.

Role of life insurers in Reverse mortgage market

Life insurance market is growing in India and there are many international players who are entering the market. Without going into details of regulatory framework, we foresee that life insurers can play a very active role in this segment of business and thus have a good growth in their portfolio. The reasons behind this thinking are

- **Better understanding of mortality/longevity trends-** Life insurers have better research about mortality trends and so they have better ability to measure longevity risks which is one of the major risk in the product. This also helps in development in the market as the life insurers can provide option of life annuity to borrowers rather than payment for fixed term. A life annuity will help the borrower to have income even at the time when he is very old.
- **Long Term Player-** Reverse Mortgage is a long term product. Life insurers being long term players in the financial market, they have ability to estimate and manage long term interest rate movements and thus manage the interest rate and other risk in better manner
- **Natural Hedge-** Life insurers are on a better footing to hedge reverse mortgage product risk with their portfolio of life insurance benefits.

Conclusion

As at present, India is poised for a strong economic growth, we should not miss any avenue to accelerate or support the growth momentum. Home equity/ Reverse Mortgage products are such products that have the potential of not only increasing the liquidity in the economy but also diversifying many risks. Besides insurance and pension products, actuaries with their long term horizon are in the position to play a leading role in designing products like reverse mortgage needing inputs both from actuarial and finance/investment domains.

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Disclaimer- The views expressed herein are the personal views of the authors and are not intended to reflect the views of any organization.

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Saket had spent a good part of his professional life in financial industry where he worked mainly in equity research and business valuation domains.

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