ISSN (Online): 2455-3662
EPRA International Journal of Multidisciplinary Research (IJMR) - Peer Reviewed Journal
Volume: 12| Issue: 3| March2026|| Journal DOI: 10.36713/epra2013 || SJIF Impact Factor 2026: 8.753 || ISI Value: 1.188

EMI BURDEN AMONG SALARIED WORKERS: A STUDY OF DEBT-TO-INCOME RATIOS (DTI)

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ABSTRACT
The intensive retail lending process within Indian setting has altered considerably the financial patterns of salaried individuals whereby there has been a wider dependability towards Equated Monthly Instalments (EMPI) as a key form of financing. On one hand, EMI-based borrowing is pleasant to the borrowers since it makes it easy to access credit and purchase assets, on the other hand, it presents a case of burdening the household budget with long-term debts. This paper analyzes EMI burden among salaried employees in terms of Debt to Income (DTI) as an important analytical tool. The results indicate that high amounts of moderate borrowing are associated with financial well-being and fund smoothing; overreliance on EMIs, in their turn, especially the surpassing DTI of 40%-45% of its amount results in financial strain, loss of savings and increased default, respectively. The paper also puts emphasis on the implication of household leverage to the stability of the banking industry in the advent of increased Non-Performing Assets (NPAs). The research presents an inclusive view of the correlation among EMI burden, financial resilience and systemic based on the combination of the financial modelling, stress testing and the district level banking exposure data. risk.

INTRODUCTION
In the last 20 years, the financial system of India has experienced structural change because of the financial inclusions, technological penetration, and vigorous growth of the retail credit markets in India. The advent of digital lending business, high infiltration rate of banking services, and better access to credit has allowed high income earners to fund their consumption and asset purchase by borrowing using EMI.

Historically, the Indian families were characterized by the savings-related financial model, whereby they were concerned with stocking up some finances before initiating spending a lot of money. The contemporary finance system has however moved towards the consumption system of credit where people use their future earnings to satisfy their current requirements. Such a transition has helped to enhance the standards of living and increased access to housing, cars, and consumer items. Simultaneously, it has raised the amount of financial obligation of households, especially through the form of fixed monthly repayment requirements.

In the case of salaried workers, this move comes with a different problem. Salaried persons, contrary to business owners or entrepreneurs, have stagnant income streams that are predictable with little possibility of expansion in a short time. This will mean that most of their earnings would be tied-up in EMI payments and they will have no room to save or spend in case of an emergency. This inflexibility renders them specifically susceptible to economic recession like inflation, unemployment, medical crises or variations in interest rates.
In this respect, the Debt to Income (DTI) ratio comes in as a significant parameter of judging financial sustainability. Measured in the ratio of the amount of income spent on servicing the debt, DTI gives a clear picture as to whether the borrowing level of a certain person is a manageable aspect. There is a high level of DTI that correlates to the lack of financial strength and the inability to endure a crisis, and there is the moderate level of DTI that represents balanced financial behaviours. The idea of EMI burden can, therefore, be analysed with regards to DTI in order to determine the health of individuals and economic stability in the larger sense.

OBJECTIVES OF THE STUDY
The principal purpose of the research will be to analyze the level of EMI load on salaried employees and its viability with the help of Debt-to-Income ratio. The study will seek to offer information about borrowing habits, financial exposure, and structural consequences of increasing household debt.

In particular, the research will examine the level of EMI reliance between people receiving salaries and learn how the number of loan repayments leads to financial strain. It will also determine the relevance of the DTI ratio as a financial health measure and several levels that can define safe, moderate, and high-risk borrowing levels.

The second significant aim is to investigate the connection between the burden of EMI and the stability of the banking sector, especially the default-risk and NPAs expansion. Through exposure data at the district level of banks, the research has tried to create a connection between the individual financial behaviours and the systemic financial performance.

Lastly, the research will provide policy suggestions to enhance responsible borrowing, enhanced credit evaluation systems, and the financial literacy of the consumers.

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RESEARCH METHODOLOGY

The study takes a descriptive and analytical method, which mostly depends on secondary data sources. Data available at Reserve Bank of India (RBI) reports, publications on financial stability, distribution of academic literature and banking exposure data at the district level have been obtained as better sources of information. These sources give both theory and practical understanding of the trends in household borrowing and monetary sustainability.

The analysis of EMI burden uses financial modelling method and simulation analysis. The hypothetical income categories are developed to reflect the various groups of salaried workers such that various possible borrowing options can be evaluated. With this method, the impact of levels of EMI commitments on DTI ratios in diverse economic conditions can be analysed.

Some of the analytical tools that the study employs are ratio analysis (DTI), stress testing, EMI computation models, and the scenario analysis. The stress testing is especially significant because it mimics the negative scenarios including the increase in the interest rates or the decrease of incomes. Using the effects of such situations on the level of DTI, the study gives a dynamic perspective of financial vulnerability.

Though the research is not based on primary survey data, the structured modelling and simulation is used which guarantees the conceptual soundness and practical applicability. It is however recognised that lack of primary data may inhibit the possibility of the capture of the behavioural complexities and demographic differences.

Conceptual Framework: Debt-to-Income Ratio (DTI)

Debt-to-Income ratio is a popular financial ratio that is used to determine the ratio of the income on an individual spent on debt payment. It is a very important pointer of financial standing, ability to repay and a sustainable ability to borrow.

DTI is computed as total monthly EMI obligations/ gross monthly income and the amount is expressed as a percentage. When DTI ratio is low, this means that the assets which are allocated to debt servicing is lower and more funds are allocated to savings and discretional spending. On the contrary, increased DTI ratio indicates an increased financial burden and flexibility.

The research groups the levels of DTI into four categories of risks:
Less than 30-percent sustainable and financially secure.
* 30-40: Medium danger, can be dealt with carefully.
*40-50%: There is high risk, which means financial stress.
*More than 50 percent: High risk of default, extreme probability of default.
These limits again are paramount in determining repayment capacity among both the borrowers and financial institutions. The empirical evidence indicates that the probability of default is too high on a DTI of over 40-45, and therefore forming a significant level of credit analysis.

Structure of EMI Financing

The equated monthly instalment (EMI) financing is one of the most common financings that are also applied in the modern financial systems. It allows the borrower to repay a loan over some certain period paying a fixed monthly barrier. This has been highly popular among the individuals who earn salaries as they can now afford high valued assets such as homes, cars and consumer goods without necessarily paying the full price of the same. The EMI financing model is also at a point of arrangement that the burden of the finances is shared throughout the period of time that can be repaid in a decent and safe manner.

EMI is a structure that involves two significant components in its structure, which are principle payment and an interest payment. The size of the first borrowed is known as the principal and the amount that is paid by the lender as an interest is the cost that is involved in advancing the loan. They both have a role in each issue of the monthly instalment. The interest and principal ratio however does not remain constant during the duration of the loan. The high percentage of EMI being appreciated on the interest payment and the lower percentage on principal reduction is seen at the initial stages of the loan. This ratio varies with time and as the loan progresses, the ratio of the indivisible EMI spent on the repayment of a principal reduces. This is called amortization.

EMI is calculated by applying a standardized mathematical formula that requires three significant variables which include the principal (P) the interest rate (R) and the tenure of the loan (N). The EMI is directly proportional to the quantity of a loan, the interest rate and inversely proportional to the length of tenure. This means that a rise in the loan value or the rate of interest would result into a rise in the EMI but an increase in the tenure would result into a drop in the amount of the monthly instalment. The tenure is however, an expensive one to the long term since the tenure extension also contributes to the total interest that would be repaid on the project of the loan.

In a bid to make EMIs appear cheap, financial institutions are likely to alter the tenure so as to entice the borrowers to take higher loans which they do not stand a chance to repay.The other important feature of EMI financing is the difference between the fixed rates loans and floating rate loans. In fixed-rate loan, interest rate does not vary during the period of loan tenure and therefore, the amount paid out as EMI does not alter. This brings stability and predictability, thus easier financing becomes predictable by the borrowers. Conversely, floating-rate loans are associated with the market rate of interest and they can change with time. In case interest rates go up, the scales of the EMI can be escalated or the loan duration can be stretched. On the contrary, in case of a reduction in the interest rates, the borrowers might enjoy lower EMIs or reduced periods. Although floating-rate loans may have cost benefits in a falling interest rate market, they create uncertainty and risk, especially in the case of a borrower possessing minimal financial flexibility.

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Conclusively, EMI financing is a methodical and technical process of loan repayment that incorporates precision and financial systems. Its structure is such that it lets borrowers service huge financial demands in form of smaller and regular payments which is the reason why it is a fundamental asset to contemporary financial systems. Nonetheless, its usefulness lies in the accountable borrowing, correct financial planning, and consciousness of its risks. The concept of EMI financing structure is therefore very important in ensuring that one makes informed financial decisions and continues to survive financially in the long-term.

KEY FINDINGS

1. Increasing Dependence on EMI-Based Borrowing

The paper concludes that salaried employees are turning to various types of loans, such as mortgage financing, car financing, personal loans, and credit card unsecured monthly installments. This type of a multi-loan structure has a great impact on creating financial obligations and decreasing disposable income.

2. Importance of DTI Thresholds

DTI becomes a decisive factor of financial health. Borrowers having DTI of less than 35-40 tend to be financially stable, whereas those with more than 45-40 become more vulnerable. Financial stress is severe at DTI levels of 50 and above which end up in repayment failures.

3. Impact of Interest Rate Fluctuations

Macroeconomic risks on floating-rate borrowings subject the borrower to these risks. A 1 percentage change in interest rates can increase the EMI payments, placing borrowers in higher classes of debt to equity with no extra borrowing..

4. Cumulative Effect of Multiple Loans

The research emphasizes the fact that the cumulative effect of various EMIs is usually underestimated by borrowers. Although the individual loans might not look hectic when looked at individually, the summation of these loans will cause a significant impact on financial burden and savings ability.

5. Link Between EMI Burden and NPAs

The implications on the banking industry are direct due to high levels of household debt. The growth of the Non-Performing Assets is attributed to increased DTI ratios resulting in increased default probabilities. In analysis on the district level, it is revealed that any percentage of default can cause significant financial strain to banks.

Psychological and Social Impact

The problem of EMI burden is not limited to financial aspect, but it goes into the psychological and social aspects. The unceasing debt repayments cause stress and anxiety which have an impact on mental health and efficiency. Highly leveraged borrowers are in a constant fear of hitting their repayment schedules and facing financial oblivion.

High EMI commitments also affect the choice of lifestyle and social behaviours. People can decrease their discretion consumption, restrict their socialization and delay big life purchases like divorce, moving, or switching jobs. This is commonly known as lifestyle compression and this is an overall social effect of too much debt.

Moreover, workplace performance has the potential of being influenced by financial stress which results in limited productivity and job satisfaction. In severe situations, it can also be the cause of lifetime mental health problems. These results demonstrate that psychological factors should be taken into account when making financial decisions.

CONCLUSION

The paper concludes that EMI based financing is very important in the contemporary financial systems as it helps to access credit and promotes economic growth. But overdependence on EMIs and lack of sufficient increase in the income may result into financial instability and higher default risk.

Debt-to-Income ratio is an important instrument of determining whether the borrowing is sustainable and the level of risk. Keeping DTI in harmless levels is necessary because it will ensure financial stability of the salaried population and it will avoid systemic risks in the banking sector.

RECOMMENDATIONS

The study suggests that in order to have sustainable borrowing habits, there is a need to reinforce credit assessment procedures that are based on DTI and increasing financial literacy among the end-users. Borrowers would need to be sensitized on danger of debts that are too high and the necessity of emergency saving.

The financial institutions must take a global view of credit assessment by looking at the cumulative debt exposure and not individual assessment of the loans. Regulations should also be provided to check excessive lending by retailers by policymakers to promote long term stable financial security.