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COMMERCIALISATION OF INDIAN MUSIC INDUSTRY & IT'S IMPACT ON INDIAN ECONOMY

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ABSTRACT

Music is a primary form of artistic expression; since the dawn of civilization, music has been one of the most significant means by which cultures have defined themselves. On the other hand, in the contemporary world, music is a relentlessly commercial industry generating billions of dollars in revenues for composers, performers, publishers, record companies, and many other players. This paradox is sometimes represented as a contradiction – creativity versus commercialism, the muse versus the market, culture versus economics – whereby the two forces must inevitably pull in opposite directions. The Indian entertainment industry is known and incomplete without music. Other segments such as remix, Indi-pop, mobile music have also gained popularity. The popularity of music in Indian films is such that almost every filmmaker incorporates at least four to five songs in the movies which is enjoyed by one and all.

KEYWORDS

commercial, entertainment, industry, market, economics.

JEL CODES M31, L82.

INTRODUCTION

The Indian Music Industry (IMI) is a trust that represents the recording industry distributors in India. It was founded on February 28, 1936 as Indian Phonographic Industry (IPI). It is the 2nd oldest music industry organization in the world that was involved in protecting copyrights of music producers and supporting growth of music entertainment industry. In 1994, it was renamed as Indian Music Industry (IMI) and represented India at the International Federation of the Phonographic Industry (IFPI). It is also registered with the West Bengal Societies Registration Act. All major music labels in India are part of this association. Record companies like Saregama India Ltd. (HMV), Universal Music (India), Tips Industries Limited, Venus, Sony Music Entertainment (India), Crescendo, Virgin Records, Magnasound, Milestone, Times Music and several other prominent national and regional labels are part of the IMI. The IMI represents over 75% of all legal music sales in India. IMI has its registered office in Kolkata and Administrative office in Mumbai. It also has offices in New Delhi, Chennai, Bangalore and other major Indian cities working on the protection of rights of music producers and preventing music piracy. It has also been instrumental in launching the IMMIES music awards in collaboration with MTV.

BACKGROUND HISTORY OF MUSIC INDUSTRY

The history of Indian Music is from the ancient day of 3rd and 2nd millennia BC, during the Indus valley civilizations. Indian music is based on rhythms and melodies but more importantly it is more concerned with vibrant colors of the rich musical heritage and a wide range of vivid emotions and expressions. Many Archaeological studies are the evidences and give validated presence of several musical instruments like harps and drums during the era. According to the Indian mythology, the laws of music was revealed known to Narada, the first sage. It is being believed that Tumburu was the first singer and Goddess of music and learning is Saraswati.

TABLE 1					
Dates	Periods in music history				
(before writing)	Prehistoric music				
(before 350)	Ancient music				
About 350–1400	Medieval music				
1400-1600	Renaissance music				
1600–1750	Baroque music				
1740–1820	Classical music period				
1820-1900	Romantic music				
1900–today	Modern period				

TOP LEADING MUSIC COMPANIES

The major players in the Indian Music Industry in the film and non-film music categories are:

- 1. T-series
- 2. Times Music
- 3. BMG Crescendo
- 4. Polygram
- 5. HMV
- 6. Tips.
- 7. Magnasound
- 8. Sony Music 9. Universal
- 10. Virgin

OBJECTIVES

- 1. To study the Recent Growth Trends of Indian Music Industry.
- 2. To analyse the impact of music industry on Indian Economy.
- 3. To find out the obstacles ahead Music Industry in India.

RESEARCH METHODOLOGY

This paper is based on secondary data collected from various sources like journals, magazines, websites and newspapers and economic survey etc.

DATA ANALYSIS

1. RECENT TRENDS IN INDIAN MUSIC INDUSTRY

The country's recorded music industry revenues grew by as much 26 per cent in 2016, helping it grab the 19th rank worldwide in sales. It outgrew the global recorded music industry, which saw a modest growth of 5.9 per cent in 2016.

The Indian music industry's revenues growth was propelled by streaming revenues that contributed about 47.5 per cent to the total revenues. Physical sales dropped to just 11.4 per cent and synchronization grew over five times to 14.7 per cent.

India's mobile phone market grew hugely in 2006 and has since gained more than half a billion subscribers, taking the total today to 900 million. Music plays a key role in mobile operators' customer acquisition, branding and engagement strategies, as smartphone adoption rises. Leading operators such as Airtel, Vodafone, Idea and Tata Docomo offer a range of music services including ringtones, ring back tones, downloads and mobile radio streaming services - which are usually bundled into subscription packages. Mobile radio services are evolving to offer multi-language stations and intelligent playlists. Streaming services such as Gaana, Dhingana and Saavn and download stores are beginning to emerge.

Telco operators such as Airtel, Vodafone and Idea have launched services to leverage their existing data bundling and billing capabilities. Bharti Airtel, India's largest telecom operator, launched music app Wynk, which has now crossed more than 5 million downloads, played 100 million songs and been featured in Google Play Store's 'Favourite Apps'.

Vodafone has also launched its own music streaming service – Vodafone Music, in association with Hungama Digital Media Entertainment. While audio and video streaming are not charged for, the user has to pay nominal fee for downloading content. And Idea launched the Idea Music HUB, an application that allows subscribers to download unlimited music to their devices, stream songs as per their preference, and also create their own personalized playlists in their preferred language.

According to International Federation of the Phonographic Industry (IFPI) Global Music Report 2016, there has been an increase of 10.2 % in digital music revenues, which have soared to \$6.7 billion, with a 45.2% increase in streaming revenue more than downloads and physical formats. Recently, industry revenues grew by 3.2 % to \$15.0 billion, leading to the industry's first significant year-on-year growth in nearly two decades.

Streaming is in demand as people are opting to stream music through their computers, smartphones and tablets. It has risen from 8 million users in 2010 to 68 million in 2015. Online radio and live performances known as performance rights contribute 14% of the total industry revenues. A miniscule portion of the industry earns from the synchronization of income which includes the use of music in TV ads, films, and brand partnerships.

2. FUTURE PROSPECT OF MUSIC INDUSTRY & IT'S CONTRIBUTION TOWARDS INDIAN ECONOMY

The Current size of Indian Music Industry is Rs 700 crore and the projected size by 2010: Rs 740 crore with CAGR of 1% Total contribution to the economy/ sales Music is the main important part of Indian film industry. Music contributes as much as 15% of an individual earnings in the Film Industry. The industry analyzers and estimations say approximately 15 crores of unit sales of music cassettes and cds in a year, with an average realization of Rs.40-45 crores. Which brings the size of the industry of the music industry to about Rs.670 crores.

Indian Music Industry today currently stands at INR 10.4 billion. Till the last decade the Indian music industry at INR 18 billion (GBP) has more than doubled. The total Indian music cassette(MC) market constitutes 95% while the compact disc (CD) market is 5% in volume terms.

India has become increased significantly in the global economic arena - it is known to be the world's fourth largest economy in PPP (purchasing power parity) terms and is a strong founding member of the WTO. India is amongst the world's top five fastest growing economies, with real GDP growth at around 5.5% for some years.

India's recorded music business will nearly double over the next five years, bringing in an annual income of 18.9bn Indian Rupee (US \$300m) in 2019. That's according to projections from KPMG in a new report based on information from the Indian music business in association with FICCI (the Federation of Indian Chambers of Commerce and Industry). If India achieved this level of growth today, it would be elevated from its current position of 20th in the world's biggest music markets by value. It would take a comfortable spot in the Top 10, ahead of the likes of South Korea, The Netherlands, Italy, Brazil and Sweden.

KPMG's figures place India's music industry value for 2014 at 9.8bn Rupees (\$155m). That's higher than the trade value estimate in the IFPI's Recording Industry in Numbers 2015 – which pins India's 2014 industry revenues at 6.1bn Rupees (\$100m).



FIG. 1

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KPMG's analysis shows its version 2014's cash tally is divided up: 55% from digital music (downloads and streaming), 20% from physical, 10% from public performance and 20% from TV and Radio (also presumably performance royalties, but split out).

According to IFPI data, physical made up 31% of total recorded music industry income in India in 2014, with digital making up 58% The digital music industry in India is in a growth mode. According to a report 'Digital Media: Rise of On-demand Content' presented by a consulting firm Deloitte, India's digital music industry is expected to reach ₹3,100 crore in revenue while the number of online music listeners is expected to reach 273 million by 2020. It is estimated that the video subscription market will make a profit of ₹3000-4000 crore by 2020.

OBSTACLES AHEAD MUSIC INDUSTRY

Even though the sector has benefited hugely, it is plagued with certain problems that need to be resolved to ensure its growth. One of the major challenges faced by the industry is related to the revenue sharing pattern. There is disagreement on how the streaming income is divided among record labels, music publishers, recording artists and songwriters. Although rights' owners are guaranteed minimum per-stream payments, streaming deals are mostly revenue-sharing arrangements. As streaming services are unable to sustain loss making ventures without end, DSPs need to focus where revenue sharing arrangements outperform the minimum guarantees.

Secondly, the IFPI's numbers are generally less positive on India as a current legitimate music market. Not only did download revenues decrease 24.8% in India in 2014, but – in a reversal of the business story in most global markets – subscription streaming income for the music business was almost cut in half, down 42% from US \$21.4m to \$12.3m.

There appears to have been at least some migration from these paid-for platforms to free streaming services, which were up 108.1% in value terms in 2014 according to the IFPI, to \$22.72m. Piracy and licensing bottlenecks continue to plague the digital music industry in India. KPMG notes that just 1%-2% of music is consumed by way of legal purchase in India, whereas 99% of the music consumption is still illegal. There is a growing mismatch between the value that user uploaded services such as YouTube extract from music, and the revenues returned to artists and record companies. The Indian courts have started to act to support legitimate digital and creative industries. In February 2012, the Calcutta High Court issued an injunction ordering 11 ISPs to block access to the infringing website songs.pk. A further judgment in March 2012 ordered 387 ISPs to block access to 104 infringing websites. IFPI estimates that with this single action, nearly 10 million internet users stopped accessing these sites. In February 2013, the courts ordered all these ISPs to block a further 162 websites. However, more action is needed to tackle other unlicensed sites to enable emerging licensed services to grow.

CONCLUSION

Today Indian Music Industry has undergone a complete change with the process of internationalization. The Music Industry today reaches every nook and corner all over the world reaching the Indian and even Non-Indians. This mainly is due to the Retail revolution in music distribution and increased penetration of CDs. Initiatives taken by the government of Impending radio privatization which would de-regulate radio frequencies, assigning 150 new FM stations to an industry which, up until now, has benefited from less than 10 radios broadcasting music hit.

Even Promotion of music is done by the way of satellite music channels like the one of Indian versions of MTV and News Corp's and majority of them own local channel V. Hence we can say that the Indian music scene has traditionally been driven by Bollywood, but changing demographics, massive internet exposure to global music trends and a progressive youth culture are leading to evolving tastes and this growing market is set to be much more diverse in the future.

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FACTORS AFFECTING PURCHASING BEHAVIOR OF COSMETIC PRODUCTS THROUGH DIGITAL MARKETING

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ABSTRACT

The rise of Digital Marketing in India has shifted the market from customer oriented marketing to technological customer oriented marketing. With the tremendous growth seen in Indian cosmetic industry, and rise in the digital world has corroboratory bought boom in GDP of India. This paper focuses on what affect the audience to purchase the cosmetic products using Digital Marketing. The paper core area too focuses on what attracts the customers to go for digitalization. India being a late comer in the digitalized field is yet to see the increase in online sales rate in next few years. Indian government is also likely to invest in internet infrastructure. Digital marketing is seen to be effective on the youth mainly, where social media seems to be a transport for communication.

KEYWORDS

digital marketing, cosmetic products, consumers, social media.

JEL CODES

M31, M37, M39.

INTRODUCTION

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If we throw some light on the scenario of digital marketing, India is seen to be the world's largest internet population on 3rd position. That is digital marketing has bought astonishing change in the marketing sector. Also according to various studies, India stands on 5th position as nation to use You-tube. That is, it has also over-showed Television also.

Indian online advertising is growing at a fast pace, which is seemed to be the most affective factor that pursue consumers to buy a cosmetic product online. This sector is constantly growing by innovating their strategies day by day. Youth is their main focus or targeted segment as they are the constant and consistent of customers for online shopping.

There are ample of factors that affect the choice of customers for cosmetic products through online shopping. The choice differs from customers to customers, and what compels, pursued them to go for online shopping for cosmetic products varies.

OBJECTIVES OF THE STUDY

- 1. Reasons that affect consumers to buy cosmetics products online.
- 2. Examining the influence of online marketing strategies on consumers.
- 3. Do online offers create a change in consumer buying behavior for cosmetic products

RESEARCH METHODOLOGY

The methodology used in this study is followed by secondary data, where the data was taken from various published journals, newspapers, articles etc. The researches based on primary data was studied and analyzed. Websites were also referred for few references.

FACTORS THAT AFFECT THE PURCHASING BEHAVIOR OF CUSTOMERS

As the digital era is shooting up in our Indian Economy, there are lot of factors that affect the purchasing behavior of customers when they purchase any cosmetic product online. But the decisions of online shopping are speculative and individual consumers are hard to predict.

1. PRICE FACTOR

Consumers buying behavior based on the price is utmost factor that affect the purchasing for any product. And similarly, digital marketing also faces this. Mostly consumers go for digitalization as they've seen price cut-off for cosmetic products. As digitalization removes the middlemen, the price already gets cut, and the final price which is offered to customers is less than the market price. Customers find easy to compare the prices of cosmetic products online than offline store.

2. RETURN POLICY

This factor is the most important factor that gives the ability to customers to return the product if it doesn't match with their needs and expectations. The feeling of money being wasted or invested wrongly can be saved which persuades consumers to buy more according to their choice.

3. VARIED VARIETY

Digitalization is in itself a wide and interest concept which offers variety of cosmetic products and variety of cosmetic brands. Whether be it skin care products, hair care products, gels, kits etc. that is, all under one roof is available where a customer can easily match his/her need according to the will, even according to the habit of consumer, comparison with other brand with similar product line can be done.

4. EXPANDING INFORMATION THROUGH ADS

Advertising is that communication channel which communicates or informs or delivers the message to the consumers, with detail to make consumers aware of the new launch or existing of products. Thus, social media is the best vehicle update consumers about the digital marketing. As through ads consumers get to know about the new and latest product which is available online. The goal of advertisement itself says to persuade consumers to shop online.

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5. TIME SAVING

In this time lock era, consumers have less time to go to a shop, compare the products and prices and then purchase, thus, this factor seems to be most effective for purchasing any cosmetic product online. That is the time and money for going is saved. Thus, the major problem of consumers is saved and by sitting at one place, they can make order according to their choices and needs.

ONLINE MARKETING STRATEGIES THAT INFLUENCE CONSUMERS

As Digital Marketing have opened various alternatives for consumers, which is not possible in offline shopping at once, the most important strategy that online marketers are following in this cut throat competitive market is the promotion by sellers all over and have made direct communication, or interaction with customer online.

Online marketing strategy which mainly they follow-

- 1. Online marketing gives 1000's of alternatives for a particular cosmetic products.
- 2. Provides flexibility to consumer according to their taste and preference.
- 3. Varied variety of choice, as product choice, brand choice, dealer choice is given to them.
- 4. Some product characteristics are suitable for online shopping like CD's, Books, magazines etc.
- 5. Online marketers have provided with security and privacy that has left mark on the consumer trust.

CHANGE IN CONSUMER BUYING BEHAVIOR REGARDING ONLINE FACILITIES

1. ACCESSIBILITY

This facility of shopping anytime is only available with the digital marketing. This is the important factor that changes the mind of consumers from offline to online shopping. The 24*7 hours shopping has attracted many customers surprisingly.

2. QUICK SEARCH

According to the habits of customers, they want full satisfaction with the product features, to compare it with other products, and this facility is only provided in a simple way by this latest and emerging technology. This is again proved to be the successful strategy to attract more consumers.

3. MOTIVATIONS BY OTHER CONSUMERS

As consumer behavior is easily influenced by other consumers, there is a mouth to mouth publicity of any product. If a consumer motivates other consumer about the flexibility and variety available to the consumers they easily get's motivated and try to purchase online, rather than going for offline process.

EXPECTED OUTCOME

Online shopping has gained popularity in young generation and professionals. The outcome of the study is pretty clear that it has built trust on price, quality and quantity on consumer's mind and heart. Through this study the factor that motivates to go with the digital or emerging technology is pretty much clear. Trust is found to be the backbone of digital marketing regarding cosmetic products.

CONCLUSION

After the success of this emerging technology, it is clear with the study, that many factors like, price, time, confidence, quality after sale service, quantity, discounted price are the influencing factors that attract the customer's buying behavior for online purchase regarding cosmetic products. Online buying is proved to be great beneficial to consumers, in terms of time saving, money and convenience.

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FINANCIAL PERFORMANCE AND DIVERSIFICATION STRATEGY OF INDIAN BUSINESS GROUPS

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ABSTRACT

Product focus based on strong core competencies combined with international diversification has been the success mantra, propounded by academicians and consultants alike. This strategy is adopted by many a successful transnational corporation such as Microsoft, Nokia, Lafarge and Coca-Cola, to name a few, in the western world, especially during the last two decades of growing liberalization and globalization. Most of the business groups in the eastern world adopting this strategy were also successful, contrary to some recent theories proposing product diversification as a success mantra in the emerging markets vis-à-vis focused strategy as success mantra in the developed world. Large number of business groups, which diversified their product range more and more claiming synergies, which were either illusory or were over-rated, eroded their shareholder's wealth, while, the ones which diversified internationally had a higher success rate.

KEYWORDS

Indian business groups, financial performance.

JEL CODES

M10, M20.

BACKGROUND

usiness groups are defined in the literature as collections of formally independent firms (or affiliates) under single common administrative and financial controls, owned by either families or trusts or foundations. These business networks are usually owned through investment firms with crossholdings in affiliates. In most countries of the eastern world, industrial scenario has been and continues to be dominated by these business houses. India's industrial sector remains no different and continues to be dominated by business houses.

First, we would argue that each Indian business group could be regarded as a corporate with a larger scope of operation, since:

(a) The managers of member firms are appointed by the business group (or after taking the consent of the business group) to exercise control over their member firms.

Moreover, we do observe member firms helping one another with financial and/or real resource transfers in times of financial distress or business hardship or otherwise. Therefore, for our purpose, the business groups with affiliated companies under them are not radically different from the U.S. conglomerates with many divisions under them or the Japanese keiretsus with member firms under them.

Name of the Variable		Mean		Standard Deviation			
	2010-11	2011-12	2010-11	2010-11	2011-12	2010-11	
Annual Growth in Total Assets (in %age)	52.91	64.14	8.26	66.99	73.84	15.59	
Return on Capital Employed (in %age)	15.54	15.13	10.86	6.04	5.46	7.77	
Modified Tobin's Q Ratio	1.20	1.56	1.08	0.29	0.67	0.50	
Age of the Group (in Years)			45.71			26.49	
Net Exports of the Group (in %age)	-3.60	-1.48	-0.02	12.46	13.35	14.94	
International Trade of the Group (in %age)	14.89	20.31	23.96	15.26	19.87	21.88	
Product Diversity (Montgomery's 3-digit SIC measure)	0.45	0.52	0.54	0.28	0.26	0.24	
Total Assets (in Rs. crores)	271.14	700.59	1534.74	667.45	1695.93	3722.75	

TABLE 1: DESCRIPTIVE STATISTICS OF SELECT VARIABLES OF SAMPLE BUSINESS GROUPS

After independence, India has seen large-scale industrialization. In this expansion business groups adopted varied strategies, some more successfully than others did. Business groups' long-term performance would chiefly be an outcome of their corporate strategy including their product and international diversity. This choice and implementation of strategies got a boost after 1985, with the arrival of the era of de-licensing of industries. Such strategies comprise decisions to efficiently utilize, add, retain, or divest its resources relative to their portfolio of resources. Little empirical work has been done on the relationship between Indian groups' financial performance and product/international diversification strategies. The primary objective of our study is to look into the relationship between these diversification strategies and financial performance of large Indian business groups.

DIVERSIFICATION ISSUES OF GROUPS

Product Diversification: Galbraith (1998) suggested that there are three types of product diversification. They are – related, linked, and unrelated diversification. While in unrelated diversification the common features are generally limited to finance and business management; in related diversification, on the other hand, additional synergies are present, such as technological know-how, marketing and distribution expertise, or facilities in production. Linked diversification, unlike related diversification, involves moving into new industries and operating at different centers of concern in those industries. However, there is some kind of a chain (integration) among various businesses.

Research on business groups has been scanty in comparison to firm-level research (Granovetter, 1994). Previous empirical studies have mostly compared the performance between business group affiliated firms and unaffiliated firms. We list some of the important research done in the area:

- Chang and Choi (1988) found that the top four Korean chaebols outperform other domestic firms of the economy including smaller chaebol and unaffiliated firms.
- Khanna and Palepu (1999) found that Indian business groups have strengthened the ties that bind their affiliate's together post-liberalization and that their
 product and geographic scope has generally increased after 1991.⁸
- Khanna and Palepu (2000) aggregated the affiliate members' performance measures to construct group Tobin's Q and group ROA measures. They found that
 accounting and stock market based measures of firm (affiliate) performance initially decline with business group product diversification and subsequently

increase once group product diversification exceeds a certain threshold level. They constructed an industry-adjusted Tobin's Q by subtracting from group Tobin's Q a weighted average of industry Tobin's Q's. As in firm level estimations, a regression of industry adjusted group Tobin's Q on group size and group product diversification revealed a quadratic relationship between performance and group diversification.

FRAMEWORK OF OUR STUDY

Shareholder value (i.e., *'owner's wealth'*) maximization is a widely accepted objective of business organizations. Value maximization also provides a good conceptual and operational framework for assessing corporate diversification strategies (Alberts and McTaggart, 1979) of groups. This is done by identifying shareholder value as a measure and locating four determinants of value, namely; profitability, growth, risk and capital market conditions (Branch and Gale, 1983). Varaiya et. al. (1987) demonstrated theoretically and empirically that growth and profitability of an organization decide its shareholder value. Since, the market value of a firm is a function of its financial return, given the level of its risk (Fruhan, 1979), we focus on risk as a third determinant of value. Risk affects both growth and profitability of an organization, and would indirectly determine value.

RESEARCH METHODOLOGY

Data Sources: The financial statement and capital market data for our research are obtained primarily from publicly available databases maintained by Centre for Monitoring the Indian Economy (CMIE) and Bombay Stock Exchange (BSE)¹². The product-wise sales data for calculating the product diversification indices was also obtained from CMIE. These standard Indian databases are most widely used by academic researchers and executives to analyze Indian firms/business groups. **Identifying Group Affiliation¹³:** The data set we used in our analysis consists of all Indian business groups affiliated to private sector and listed on the stock exchanges with the required data and a listing history of at least 10 years by their affiliates. For this purpose, we adopted the CMIE database's classification of firms into groups. There is no ambiguity between CMIE's classification of firms into groups and those attempted by other reliable sources against which we have cross-checked. In the case of family controlled groups, succession from one generation to another often results in the group being split into multiple parts. We identified several groups that had gone through such periods of succession in the past two decades, and checked to see that CMIE had indeed classified each sub-group separately.

Sample and Size: For the purpose of our research, we take a firm as belonging to a particular business group in which the sample business group has at least 10 percent of the control rights of the company and which is not controlled by anybody else (similar to Claessens et. al., 1999). This study covers public limited companies only, quoted in any one of the Indian stock exchanges. Availability of data being the constraint, the study included all dominant business houses (final size of 240) in India in the sample.

Time Span of Study: To avoid factors such as temporal stability and economic/business cycles influencing our study, we used a longer time frame of study of a twelve-year period. As the business houses and firms were at liberty to choose their diversification strategy from 1985 onwards (due to delicensing of industries), the study would be carried out for the period 1987-1999. This total period of study of 12 years was divided into 3 equal sub-periods of 4 years each. Period 1 would be from financial year 1987-88 to financial year 1990-91 (period of pre-liberalization). Period 2 would be from 1991-92 to 1994-95 (period of post-liberalization; growth phase). Period 3 would be from 1995-96 to 1998-99 (period of post-liberalization; recession phase).

Measures of Independent Variables: Give the constraints on the data availability for using the best measures such as international diversification, we computed the aggregate group independent variables based on their ratios and formulas given in table 3. To make our results comparable with previous studies in the area we will use one categorical product diversification measure and two continuous product diversification measures.

Econometric Analysis: We tested the diversification strategy and financial performance linkage using linear multiple regression techniques which model group performance as a function of size of the group, its diversification, leverage, and industry fixed effects among others as shown as follows:

Performance = f(product diversification, size, leverage, long-term solvency, short-term solvency, insider ownership, foreign ownership, domestic institutional ownership, international diversification, net exports, age, industry fixed effects)

The regressions were computed all the three periods for each of dependent variable with the nine relevant explanatory variables. For period 3, the regressions were also performed using each of dependent variables with the twelve explanatory variables. These linear multiple full model regressions were performed using both the best variables and the standard variables. We also made use of transformations of product diversification variable in the multivariate regression techniques to look into the exact fit between performance and diversification variable given all the control variables. Both the continuous and non-continuous measures of diversification were used separately for performing these multiple regressions. Also regressions using the ten industry control dummy variables were performed separately.

PRODUCT DIVERSIFICATION RESULTS

We found that shareholder value creation was negatively related to product diversification level of business houses during all the three periods. The econometric results were quite robust considering the large sample size, multiple diversification measures, long time frame, multiple aggregate group performance measures, and more control variables used. On further analysis, we found that during period 1 and 2, the result was driven by the negative relationship between a group's product diversification strategy and its profitability. For period 1, *ceteris paribus*, we found that more diversified business groups had lesser profit margins and higher levels of risk in comparison to less diversified groups driving the negative product diversification-profitability relationship. For period 2, *ceteris paribus*, we found that highly diversified business groups had both, lesser margins and lower sales turnover in comparison to more focused groups. *Ceteris paribus*, we found highly diversified groups growth and sales turnover ratio to be lower than less diversified groups in period 3. Presumably, the adverse capital market outlook towards diversified business groups in India, as in other parts of the world (see Servaes, 1996; Lamont and Polk, 1999), also drove the relation during the later period of study.

INTERNATIONAL DIVERSIFICATION, NET EXPORTS AND PERFORMANCE

International diversification was positively related to business groups growth, profitability, profit margin, and shareholder value during period 1 and 2, while in period 3 we find that net exports was positively related to business groups' profitability and shareholder value. Either international diversification or net exports positive significance indicates benefits to the business groups having high international exposure. Therefore, movement into international markets may allow groups to achieve a long-term strategic competitiveness and hence higher shareholder value. The result apparently conveys that geographic diversification allows groups to exploit their core competencies and distinctive group capabilities across units in different international markets (Hoskisson and Hitt, 1990). International exposure might have also provided a broader base of markets for obtaining returns from innovation and provide new market possibilities (Wan, 1998).

The positive relation between net exports and performance in later periods probably suggests that exporters benefited from incentives given by the state. Also, business groups with high exports, probably gained from the learning they had in the global markets (say, in terms of better packaging, technological innovation). Moreover, capital markets seem to have favored businesses and business groups that were net exporters during this period.

LIMITATIONS

We deleted in our study all Indian business groups that had a size lower than Rs. 5 crores during the period of study; or had a negative net-worth during one of the periods of the study. Thus, the sample may contain relatively large number of better performing large business groups. Data constraints also led us to use coefficient of variance in earnings as the measure for risk. A better measure based on the market returns could have revealed more information. Also use of

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market based performance measures such as Sharpe and Trey nor measures, apart from tested strategic variables such as brand value could have led to more insights into the factors determining excellence.

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AN ANALYSIS OF THE SAVING MOTIVES OF THE HOUSEHOLDS IN NORTH GUJARAT

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ABSTRACT

For doing any activity, there needs to be some motivation. The act of saving is no different. The present study tries to identify if the households in North Gujarat Region have similar motives to save or not. In this study, fifteen motives were identified. A questionnaire was designed for this purpose and ranks were collected from the households living in the North Gujarat Region. Data from 860 units was collected. They were classified as per the district, area, age of the head of the household, their education, occupation, the type of the family and residence. About 399 homogeneous groups were created. The ranks given by the units were converted into Garret Score and then they were combined into five needs categories as proposed by Maslow (1943). With the help of Kruskal –Wallis Independent sample test it was tested if the ranks given by the units under the study were similar or not. The results of the study indicate that area and the occupation of the head of the household had a significant influence on the ranks given by the household while residence type had no influence on the ranks given by the household.

KEYWORDS

North Gujarat, saving motives, households.

JEL CODES D14, E21.

INTRODUCTION

J t is a known fact that for doing any activity, some motivation is required. The act of saving is no different. In order to postpone the desire to spend today for having money to spend tomorrow, some motivation is required. Keynes (1936) identified eight such motives for saving viz. precautionary needs, foresight, calculation, improvement, independence, enterprise, pride and avarice.

One of the most popular motivational theories was propounded by Abraham Maslow also known as the Need Hierarchy theory. Maslow (1943) identified five levels of needs which any individual has which motivate him to work to satisfy those needs. At the first level were the basic needs. Once they are satisfied, a person would work more to satisfy the second level needs namely safety needs. At the third level there are love/family needs. Retirement and old age needs were placed at the fourth level and Self Esteem needs were placed at the fifth level. The present study tries to identify if the households in North Gujarat Region have similar motives to save or not.

LITERATURE REVIEW

While studying savings and investments of households it is important to understand the motives with which the households save and invest. According to **Keynes** (1936) there are eight main motives which lead the individuals to refrain from spending out their income. They include building a reserve against unforeseen contingencies, retirement savings, to earn interest and appreciation, to meet the increasing expenditures, to have financial independence, for speculative activities, to leave fortune and to satisfy miserly needs.

Nasir, Khalid and Mahmood (2004) found that people mainly save to cover future expenditures of education, marriages etc. Euwalss, Eymann and Supan (2004) found that those households in which the husbands consider savings for old age as important have large amounts of discretionary wealth and were more likely to hold stocks and whole life insurance. Husband's pension rights play a significant role in deciding the old age savings.

Kwack and Lee (2005) found that one of the main reasons why Koreans saved was to buy a house. Gosh and Pain (2005) concluded that the most important motive of savings is for providing for retirement which is followed by saving for precaution against any emergency. They also observed that very few people thought of saving for next generation. Another reason that they found which influences the savings is the need for money to meet the demands of life. Further they found that tax incentives only matter to the extent of changing the savings basket.

In another study conducted by **Fisher and Montalto (2010)**, the results point out that the savings for retirement, savings for emergency and savings for education of children or grand-children increases the likelihood of savings. The payment and bequest motive do not affect the likelihood of savings over the past year or of being regular savers. They found that by having a specific saving motive does not relate to increases probability of savings. It means that by getting the respondents to establish certain goal for savings does not mean that savings will occur.

According to **Chakraborty and Digal (2011)**, the main motive for savings among the salaried class and professionals is to save for retirement. The entrepreneurial class saved to meet the future contingencies.

Amu and Amu (2012) found that the primary motive for savings is to prepare against financial contingencies. In the study conducted by Lewis and Messy (2012) the main factors that motivate an individual to save are retirement savings, necessities, to improve the living conditions and to carry out speculative activities. They found that people also saved to leave an inheritance, to horde money. They found that people also saved when they get surplus during a certain period so that this surplus can be used when the need arises.

Lee and Hanna (2015) found that retirement motive the most frequently mentioned motive by the households while self-actualization goals were the least frequently mentioned motive.

OBJECTIVES OF THE STUDY

The following are the objectives of the study:

1. To understand the reasons for which the households save.

2. To find out if the reasons for saving are same across all the households under the study.

RESEARCH METHODOLOGY

SAMPLE SIZE

For the purpose of the study, the data was collected from 860 households wherein they were asked to give ranks to 15 saving motives which have been identified. AREA OF THE STUDY

The data was collected from the households which are based in five districts of North Gujarat namely, Banaskantha, Gandhinagar, Mehsana, Patan and Sabarkantha.

QUESTIONNAIRE

A questionnaire was developed for collecting the data of the demographics of the household and for collecting the information of the ranks that they would allocate to the various saving motives. The following are the 15 different motives which the households were asked to rank:

- Reserve for unforeseen situations 1.
- 2. Retirement/Old age
- 3. Interest and appreciation
- 4. To sustain even when there is gradual increase in cost of living
- 5. To have independence regarding financial decisions
- To undertake speculation 6.
- 7. To invest in business
- 8. To leave something as heirloom
- 9 To fulfill the desire to save money
- 10. For Children's education
- 11. For Children's marriage
- To purchase a house 12.
- 13 To purchase other consumer durables
- 14. To make down payments
- 15. To clear debts

The respondents were asked to rank these motives from 1 to 15, wherein 1 signified the most important motive while 15 indicated the least important reason for saving. The ranks were then converted into Garret Score.

The collected responses were classified as per their district, area, age group, type of family, type of residence, education and occupation. The below table indicates the classification categories: TABLE A: CATEGORIES IN WHICH THE RESPONSES COLLECTED WERE CLASSIFIED

	TABLE A. CATEGORIES IN WHICH THE RESPONSES COLLECTED WERE CLASSIFIED									
District	Area	Age group	Type of family	Type of residence	Education	Occupation				
Banaskantha	Rural	30 years or below	Joint Family	Own House	Uneducated	Labrourer				
Gandhinagar	Urban	31 to 40 years	Nuclear Family	Rented House	Below Primary	Farmer				
Mehsana		41 to 50 years			Primary	Business				
Patan		51 to 60 years			SSC	Private Job				
Sabarkantha		Above 60 years			HSC	Government Job				
					Diploma	Retired				
					Graduates	Housewife				
					Post Graduates					

The ranks given by the respondents 15 motives identified were combined into five different hierarchical categories which were specified by Abraham Maslow. The motives were classified into the different needs on the basis of the methodology suggested by Lee and Hanna (2015). The below table shows as to which motive was included into each group.

TABLE B: CATEGORIES OF SAVING GOALS

Sr. No.	Needs as per Maslow's classification	Sr. No. of the Motive to be included
1.	Basic Needs	13, 14, 15
2.	Safety Needs	1, 3, 4, 5, 9, 12
3.	Love/Family Needs	8, 10, 11
4.	Retirement Needs	2
5.	Self Esteem Needs	6, 7

Once the classification was undertaken, units having similar characteristics were grouped into same category and such 399 groups were formed. TOOL AND TECHNIQUES USED

1. Garret ranking score

2. Independent Samples Kruskal-Wallis test

HYPOTHESIS

Hol: Similar ranks were given to the saving motives by the head of the households belonging to the various age groups.

H11: Similar ranks were not given to the saving motives by the head of the households belonging to the various age groups.

 H_{02} : Similar ranks were given to the saving motives by the head of the households belonging to different district.

H12: Similar ranks were not given to the saving motives by the head of the households belonging to different district.

 H_{03} : Similar ranks were given to the saving motives by the head of the households belonging to rural and urban areas.

H₁₃: Similar ranks were not given to the saving motives by the head of the households belonging to rural and urban areas.

H₀₄: Similar ranks were given to the saving motives by the head of the households belonging to Joint and nuclear families.

H₁₄: Similar ranks were not given to the saving motives by the head of the households belonging to Joint and nuclear families.

H₀₅: Similar ranks were given to the saving motives by the head of the households belonging to Own and rented houses.

H₁₅: Similar ranks were not given to the saving motives by the head of the households belonging to Own and rented houses.

Hos: Similar ranks were given to the saving motives by the head of the households having different educational qualifications. H₁₆: Similar ranks were not given to the saving motives by the head of the households having different educational qualifications.

Hor: Similar ranks were given to the saving motives by the head of the households engaged in different occupations.

H12: Similar ranks were not given to the saving motives by the head of the households engaged in different occupations.

DATA ANALYSIS

The data analysis was undertaken under the following heads:

1. AGE AND MOTIVES

For understanding if the saving motives of the households under the study having a head belonging to different age groups was same or not, Independent Samples Kruskal-Wallis test was undertaken. For this purpose, the below hypothesis was formulated:

Hol: Similar ranks were given to the saving motives by the head of the households belonging to the various age groups

H₁₁: Similar ranks were not given to the saving motives by the head of the households belonging to the various age groups

The Table 1 presents the results of the independent samples Kruksal- Wallis test:

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٦	TABLE 1: RESULTS OF INDEPENDENT SAMPLES KRUSKAL – WALLIS TEST FOR FINDING DIFFERENCES IN PATTERNS OF MOTIVES ACROSS AGE GROUPS							
Sr.	Null Hypothesis	Test	Test Sta-	Sig.	Decision			
no			tistic					
1	Similar ranks were given to the basic needs by the head of the households belong-	Independent Samples Kruskal	1 020	0 740	Retain the null hy-			
1.	ing to the various age groups	– Wallis Test	1.950	0.749	pothesis			
2	Similar ranks were given to the Safety needs by the head of the households belong-	Independent Samples Kruskal	2 221	0 605	Retain the null hy-			
Ζ.	ing to the various age groups	– Wallis Test	2.221	0.095	pothesis			
2	Similar ranks were given to the Love/Family needs by the head of the households	Independent Samples Kruskal	10 710	0.030	Reject the null hy-			
5.	belonging to the various age groups	– Wallis Test	10.719		pothesis			
4	Similar ranks were given to the Retirement needs by the head of the households	Independent Samples Kruskal	16 229	0 002	Reject the null hy-			
4.	belonging to the various age groups	– Wallis Test	10.556	0.003	pothesis			
5	Similar ranks were given to the Self Esteem needs by the head of the households	Independent Samples Kruskal	2 1 1 6	0 700	Retain the null hy-			
5	belonging to the various age groups	– Wallis Test	2.140	0.709	pothesis			

Note: Asymptotic Significances are displayed; Significance Level is 0.05; N= 398 and Degrees of freedom is 4; Test Statistics are adjusted for ties

The results of the Independent Samples Kruskal – Wallis Test indicate that similar ranks were given to the basic needs; safety needs as well as Self Esteem needs by the heads belonging to different age groups. This indicates that they were considered at the same level by the heads of the households. On the other hand, similar ranks were not given by the heads to the Love/Family needs (Adj. Sig. = 0.030). Pair wise comparisons reveal that the ranks to the Love and family needs given by the units having a head of the households who was between 41 to 50 years and those who had a head who was below 30 years of age were statistically different.

The ranks given to the Retirement needs by the head belonging to the various age groups were significantly different (Adj. Sig. 0.003). Pair wise comparisons reveal that the ranks given to the Retirement needs by the units having a head who were between the ages of 51 to 60 years as well as the ones between 31 to 40 years and also those above 60 years and the ones between 31 to 40 years were also statistically different.

Overall, it can be concluded that the ranks given by the heads of the household belonging to different age groups were similar in case of basic needs, safety needs and self-esteem needs while the ranks given by them were not similar in case of love/family needs as well as retirement needs.

2. DISTRICT AND MOTIVES

For understanding if the saving motives of the households under the study having a head belonging to different districts was same or not, Independent Samples Kruskal-Wallis test was undertaken. For this purpose, the below hypothesis was formulated:

H₀₂: Similar ranks were given to the saving motives by the head of the households belonging to different district

H12: Similar ranks were not given to the saving motives by the head of the households belonging to different district

The Table 2 presents the results of the independent samples Kruksal- Wallis test:

TABLE 2: RESULTS OF INDEPENDENT SAMPLES KRUSKAL – WALLIS TEST FOR FINDING DIFFERENCES IN PATTERNS OF MOTIVES ACROSS VARIOUS DISTRICTS

Sr.	Null Hypothesis	Test	Test Sta-	Sig.	Decision
no			tistic		
1.	Similar ranks were given to the basic needs by the head of the households	Independent samples Krus-	6.748	0.150	Retain the null Hy-
	belonging to different district	kal-Wallis Test			pothesis
2.	Similar ranks were given to the Safety needs by the head of the households	Independent samples Krus-	11.519	0.021	Reject the null hy-
	belonging to different district	kal-Wallis Test			pothesis
3.	Similar ranks were given to the Love/family needs by the head of the	Independent samples Krus-	36.356	0.000	Reject the null hy-
	households belonging to different district	kal-Wallis Test			pothesis
4.	Similar ranks were given to the Retirement needs by the head of the	Independent samples Krus-	9.791	0.044	Reject the null hy-
	households belonging to different district	kal-Wallis Test			pothesis
5.	Similar ranks were given to the Self-Esteem needs by the head of the	Independent samples Krus-	41.016	0.000	Reject the null hy-
	households belonging to different district	kal-Wallis Test			pothesis

Note: Asymptotic Significances are displayed; Significance Level is 0.05; N= 398 and Degrees of freedom is 4; Test Statistics are adjusted for ties

The results of the Kruskal – Wallis Test indicate that similar ranks were given only to the basic needs by all the units in various districts. Differences in the ranks given by the units were observed in case of the safety needs (Adj. Sig. = 0.021) and Retirement needs (Adj. Sig. = 0.044). Pair wise comparisons indicate overall there were differences in the ranks given by the units.

The ranks assigned to Love/Family Needs were also significantly different (Adj.Sig. 0.000). Pair wise comparisons indicate that the ranks given by the units belonging to Patan were significantly different from the ranks given by the units belonging to Gandhinagar and Sabarkantha. In the same manner, the ranks given by the units of Banaskantha were significantly different from the ranks given by the units of Gandhinagar and Sabarkantha. Due to this the null hypothesis was rejected. The ranks given to the Self Esteem Needs were also different (Adj. Sig. = 0.000). Pair wise comparison indicates that the ranks given by units of Sabarkantha was significantly different from the units of Patan, Mehsana, Banaskantha. In the same manner, the ranks given by the units belonging to Gandhinagar significantly different from the ranks given by the units of Patan, Banaskantha. In the same manner, the ranks given by the units belonging to Gandhinagar significantly different from the ranks given by the units of Patan, Banaskantha. In the same manner, the ranks given by the units belonging to Gandhinagar significantly different from the ranks given by the units living in Mehsana, Banaskantha and Patan. Due to this, the null hypothesis was rejected.

Overall, it can be said that there is no significant difference in the ranks given to the basic needs but there were significant differences in the ranks given to safety needs, retirement needs, love/family needs as well as Self-esteem needs.

3. AREA AND MOTIVES

For finding if the area in which the household is based has an effect on the ranks given by them to the saving motives, Independent Samples Kruskal – Wallis Test was undertaken. For this purpose, the following hypothesis was formulated:

H₀₃: Similar ranks were given to the saving motives by the head of the households belonging to rural and urban areas

H13: Similar ranks were not given to the saving motives by the head of the households belonging to rural and urban areas

The Table 3 presents the results of the independent samples Kruksal- Wallis test:

TABLE 3: RESULTS OF INDEPENDENT SAMPLES KRUSKAL – WALLIS TEST FOR FINDING DIFFERENCES IN PATTERNS OF MOTIVES ACROSS RURAL AND URBAN

	AKEAS								
Sr.	Null Hypothesis	Test	Test Sta-	Sig.	Decision				
no			tistic						
1.	Similar ranks were given to the Basic Needs by the head of the households belonging to rural and urban areas	Independent samples Krus- kal-Wallis Test	13.913	0.000	Reject the null hy- pothesis				
2.	Similar ranks were given to the Safety Needs by the head of the households belonging to rural and urban areas	Independent samples Krus- kal-Wallis Test	8.269	0.004	Reject the null hy- pothesis				
3.	Similar ranks were given to the Love/Family Needs by the head of the house- holds belonging to rural and urban areas	Independent samples Krus- kal-Wallis Test	17.409	0.000	Reject the null hy- pothesis				
4.	Similar ranks were given to the Retirement Needs by the head of the house- holds belonging to rural and urban areas	Independent samples Krus- kal-Wallis Test	18.081	0.000	Reject the null hy- pothesis				
5.	Similar ranks were given to the Self Esteem Needs by the head of the house- holds belonging to rural and urban areas	Independent samples Krus- kal-Wallis Test	18.135	0.000	Reject the null hy- pothesis				

Note: Asymptotic Significances are displayed; Significance Level is 0.05; N= 398 and Degrees of freedom is 1; Test Statistics are adjusted for ties

The results of the test indicate that the ranks given by the units of the rural areas as well the urban areas differ as their perceptions which need are more important might be different. So the null hypothesis was rejected.

4. FAMILY TYPE AND MOTIVES

For finding out if the type of family in which the household lives has any influence on the ranks given by them to the saving motives, Independent Samples Kruskal – Wallis Test was undertaken. For this purpose, the below hypothesis was formulated:

 H_{04} : Similar ranks were given to the saving motives by the head of the households belonging to Joint and nuclear families

H14: Similar ranks were not given to the saving motives by the head of the households belonging to Joint and nuclear families

The Table 4 presents the results of the independent samples Kruksal- Wallis test:

TABLE 4: RESULTS OF INDEPENDENT SAMPLES KRUSKAL – WALLIS TEST FOR FINDING DIFFERENCES IN PATTERNS OF MOTIVES ACROSS JOINT AND NUCLEAR

Sr.	Null Hypothesis	Test	Test Sta-	Sig.	Decision
no			tistic		
1	Similar ranks were given to the Basic needs by the head of the households	Independent samples	0 1 2 7	0 711	Retain the null
1.	belonging to Joint and nuclear families	Kruskal-Wallis Test	0.137	0.711	hypothesis
2	Similar ranks were given to the safety needs by the head of the households	Independent samples	2 201	0 1 2 0	Retain the null
Ζ.	belonging to Joint and nuclear families	Kruskal-Wallis Test	2.201	0.156	hypothesis
2	Similar ranks were given to the Love/Family needs by the head of the house-	Independent samples	0 5 7 7	0.002	Reject the null
3.	holds belonging to Joint and nuclear families	Kruskal-Wallis Test	9.577	0.002	hypothesis
Λ	Similar ranks were given to the Retirement needs by the head of the house-	Independent samples	0.026		Retain the null
4.	holds belonging to Joint and nuclear families	Kruskal-Wallis Test	0.036	0.850	hypothesis
E	Similar ranks were given to the Self – Esteem needs by the head of the house-	Independent samples	0.747	0.002	Reject the null
э.	holds belonging to joint and nuclear families	Kruskal-Wallis Test	9.747	0.002	hypothesis

Note: Asymptotic Significances are displayed; Significance Level is 0.05; N= 398 and Degrees of freedom is 1; Test Statistics are adjusted for ties

The results of the Independent Samples Kruskal – Wallis Test indicate that similar ranks were given by the units belonging to joint and Nuclear families to basic needs, safety needs and retirement needs. Differences in the ranks were observed in case of Love/ Family needs as well as Self – Esteem Needs.

Overall, it can be said that there is no significant difference in the ranks given to the basic needs, safety needs and retirement needs but there was significant differences in the ranks given to love/family needs as well as Self-esteem needs.

5. RESIDENCE TYPE AND MOTIVES

For understanding if the type of residence has any impact on the ranking given by the households for the saving motives, Independent Samples Kruskal – Wallis Test was undertaken. For this purpose, the below hypothesis was formulated:

Hos: Similar ranks were given to the saving motives by the head of the households belonging to Own and rented houses

H₁₅: Similar ranks were not given to the saving motives by the head of the households belonging to Own and rented houses

The Table 5 presents the results of the independent samples Kruksal- Wallis test:

TABLE 5: RESULTS OF INDEPENDENT SAMPLES KRUSKAL – WALLIS TEST FOR FINDING DIFFERENCES IN PATTERNS OF MOTIVES ACROSS OWN AND RENTED HOUSES

Sr.	Null Hypothesis	Test	Test Sta-	Sig.	Decision
no			tistic		
1	Similar ranks were given to the basic needs by the head of the households	Independent samples Krus-	1 072	0 1 7 1	Retain the null hy-
1.	belonging to Own and rented houses	kal-Wallis Test	1.873	0.171	pothesis
2	Similar ranks were given to the safety needs by the head of the households	Independent samples Krus-	0.279	0 5 2 9	Retain the null hy-
Ζ.	belonging to Own and rented houses	kal-Wallis Test	0.378	0.556	pothesis
2	Similar ranks were given to the love/family needs by the head of the house-	Independent samples Krus-	0.041	0 0 20	Retain the null hy-
э.	holds belonging to Own and rented houses	kal-Wallis Test		0.839	pothesis
4	Similar ranks were given to the retirement needs by the head of the house-	Independent samples Krus-	0.429	0 5 1 2	Retain the null hy-
4.	holds belonging to Own and rented houses	kal-Wallis Test	0.428	0.515	pothesis
-	Similar ranks were given to the Self esteem needs by the head of the house-	Independent samples Krus-	0.069	0 704	Retain the null hy-
э.	holds belonging to Own and rented houses	kal-Wallis Test	0.008	0.794	pothesis

Note: Asymptotic Significances are displayed; Significance Level is 0.05; N= 398 and Degrees of freedom is 1; Test Statistics are adjusted for ties

The results of the test indicate that the ranks given by the own house dwellers as well as the rented house dwellers were statistically same. So, it can be concluded the null hypothesis is accepted.

6. EDUCATION AND MOTIVES

For understanding if the ranks given by the households differ due to the educational qualifications of the head of the household, Independent Samples Kruskal – Wallis test was undertaken. The following hypothesis was formulated for this purpose:

 H_{06} : Similar ranks were given to the saving motives by the head of the households having different educational qualifications

H₁₆: Similar ranks were not given to the saving motives by the head of the households having different educational qualifications

The Table 6 presents the results of the independent samples Kruksal- Wallis test:

TABLE 6: RESULTS OF INDEPENDENT SAMPLES KRUSKAL – WALLIS TEST FOR FINDING DIFFERENCES IN PATTERNS OF MOTIVES ACROSS DIFFERENT

	Ebook nonae qualinea nono						
Sr.	Null Hypothesis	Test	Test Sta-	Sig.	Decision		
no			tistic				
1.	Similar ranks were given to the basic needs by the head of the households	Independent samples	11.215	0.129	Retain the null		
	having different educational qualifications	Kruskal-Wallis Test			hypothesis		
2.	Similar ranks were given to the safety needs by the head of the households	Independent samples	11.224	0.129	Retain the null		
	having different educational qualifications	Kruskal-Wallis Test			hypothesis		
3.	Similar ranks were given to the love/family needs by the head of the house-	Independent samples	16.556	0.020	Reject the null		
	holds having different educational qualifications	Kruskal-Wallis Test			hypothesis		
4.	Similar ranks were given to the retirement needs by the head of the house-	Independent samples	23.209	0.002	Reject the null		
	holds having different educational qualifications	Kruskal-Wallis Test			hypothesis		
5.	Similar ranks were given to the self esteem needs by the head of the house-	Independent samples	6.736	0.457	Retain the null		
	holds having different educational qualifications	Kruskal-Wallis Test			hypothesis		

Note: Asymptotic Significances are displayed; Significance Level is 0.05; N= 398 and Degrees of freedom is 1; Test Statistics are adjusted for ties

The results of the test indicate that the similar ranks were given by the all the households to the basic needs, safety needs and Self-esteem needs. But differences in the ranks were observed in the ranks given to Love/family needs as well as Retirement needs by the heads of the households with different educational qualifications. Pair wise comparisons indicate that the ranks given by the heads of the household educated till primary level and those educated till Graduate level differed significantly in case of Love/ family needs (Adj. Sig.= 0.000) while the ranks given to retirement needs by the households with heads who were graduates and those who were uneducated differed significantly (Adj. Sig,0.020).

Overall, it can be concluded that the null hypothesis is accepted for the basic needs, safety needs and self-esteem needs while it was rejected in case of love/family needs and retirement needs.

7. OCCUPATION AND MOTIVES

For understanding if the ranks given by the households differ due to the occupation of the head of the household, Independent Samples Kruskal – Wallis test was undertaken. The following hypothesis was formulated for this purpose:

Hor: Similar ranks were given to the saving motives by the head of the households engaged in different occupations

H₁₇: Similar ranks were not given to the saving motives by the head of the households engaged in different occupations

The Table 7 presents the results of the independent samples Kruksal- Wallis test:

TABLE 7: RESULTS OF INDEPENDENT SAMPLES KRUSKAL - WALLIS TEST FOR FINDING DIFFERENCES IN PATTERNS OF MOTIVES ACROSS DIFFERENT

OCCUPATIONS

Sr. no	Null Hypothesis	Test	Test Sta- tistic	Sig.	Decision
1	Similar ranks were given to the basic needs by the head of the households	Independent samples Krus-	21 262	0.002	Reject the null hy-
1.	engaged in different occupations	kal-Wallis Test	21.205		pothesis
2	Similar ranks were given to the safety needs by the head of the households	Independent samples Krus-	27 205	0.000	Reject the null hy-
Ζ.	engaged in different occupations	kal-Wallis Test	27.205		pothesis
2	Similar ranks were given to the love/family needs by the head of the house-	Independent samples Krus-	27.075	0.000	Reject the null hy-
5.	holds engaged in different occupations	kal-Wallis Test	27.975		pothesis
4.	Similar ranks were given to the retirement needs by the head of the house-	Independent samples Krus-	26 721	0.000	Reject the null hy-
	holds engaged in different occupations	kal-Wallis Test	50.721		pothesis
E	Similar ranks were given to the self-esteem needs by the head of the house-	Independent samples Krus-	10.050	0.003	Reject the null hy-
э.	holds engaged in different occupations	kal-Wallis Test	19.959		pothesis

Note: Asymptotic Significances are displayed; Significance Level is 0.05; N= 398 and Degrees of freedom is 1; Test Statistics are adjusted for ties

The results of the test indicate that the ranks given to all the needs were different as therefore the null hypothesis cannot be accepted. Pair wise comparisons indicate that the ranks given to the basic needs by the Labourers and businessmen as well as by the farmers and businessmen also differed significantly. The ranks given to the safety needs by the ones who had retired differed significantly with the businessmen, Labourers and farmers.

The ranks given by the farmers to the love/family needs differed significantly from the ranks given by the ones engaged in Government jobs and those who had retired. Further the ranks given by the ones retired differed significantly from the ones who were engaged in farming, the ones doing labour work as well as with housewives. Similarly, the ranks given by the ones engaged in government job differed significantly than the farmers and Labourers. The units having a head employed in a private job had significantly different ranks than the ones engaged as Labourers.

The ranks given to the self-esteem needs by the ones engaged in business and those employed as farmers differed significantly.

Overall, it can be concluded that the null hypothesis cannot be accepted for all the needs as the ranks given by the units having a head engaged in various occupations are different.

FINDINGS OF THE STUDY

The following are the major findings of the study:

- 1. Age group of the head of the household, the district, family type and residence of the household had no influence on the ranks given by the household while the area and occupation of the head of the household had an influence on the ranks given by the household to the basic needs.
- 2. Age, family type, residence type and education of the head of the household had no influence on the ranks given by the household to safety needs while district, area and the occupation of the head of the household influenced the ranks given by the household to the safety needs.
- 3. The ranks given by the heads of the household to love/family needs were influenced by the age of the head of the household, district, area, family type, education of the head and the occupation of the head while the residence type had no influence on the ranks given by the household.
- 4. Ranks given to Retirement needs were influenced by the age of the head of the household, district, area, education of the head and occupation of the head. Family and residence type had no influence on the ranks given by the household to family type and the residence type of the household.
- 5. Ranks given to Self-esteem needs was influenced by the district, area, family type and occupation of the head of the household. Age of the head, residence type and education of the household had no influence on the ranks given to self-esteem needs.

CONCLUSION

Behind any activity that a human being performs, there are some reasons for which they undertake those activities. Saving money is also no different than that. Maslow's Need Hierarchy theory suggested that the needs of the individual are divided into five different categories. tries to identify if the households in North Gujarat Region have similar motives to save or not.

The first objective of the study was to understand the reasons for which the households save. In the present study fifteen reasons for which the households save were identified. The reasons which were identified include saving for reserve for unforeseen situations, for having a reserve for unforeseen situations, for earning

interest and appreciation, for sustaining even when there is gradual increase in cost of living, for having independence regarding financial decisions, for undertaking speculation, for investing in business, to leave something as heirloom, to fulfill the desire to save money, for the education of their children, for the marriage of their children, for purchasing a house, for purchasing other consumer durables, for making down payments and for clearing debts.

The second objective of the study was to find out if the reason for saving are same across all the household under the study. Age group of the head of the household, the district, family type and residence of the household had no influence on the ranks given by the household while the area and occupation of the head of the household had an influence on the ranks given by the household to the basic needs.

Age, family type, residence type and education of the head of the household had no influence on the ranks given by the household to safety needs while district, area and the occupation of the head of the household influenced the ranks given by the household to the safety needs.

The ranks given by the heads of the household to love/family needs were influenced by the age of the head of the household, district, area, family type, education of the head and the occupation of the head while the residence type had no influence on the ranks given by the household.

Ranks given to Retirement needs were influenced by the age of the head of the household, district, area, education of the head and occupation of the head. Family and residence type had no influence on the ranks given by the household to family type and the residence type of the household.

Ranks given to Self esteem needs were influenced by the district, area, family type and occupation of the head of the household. Age of the head, residence type and education of the household had no influence on the ranks given to self esteem needs.

Overall, it can be said that area and the occupation of the head of the household had a significant influence on the ranks given by the household while residence type had no influence on the ranks given by the household.

LIMITATIONS OF THE STUDY

1. This study is based on the primary data collected. As a result, all the limitations of the primary data are present in this study.

- 2. The responses were collected only from North Gujarat Region.
- 3. For testing if the ranks are same, a non-parametric test was used.

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IMPACT OF DOMESTIC CURRENCY (INR) DEVALUATION ON EXPORTS OF INDIA (A STUDY FOR THE PERIOD OF 2000-2017)

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ABSTRACT

This paper is concerned with foreign trade of India in which impact of currency devaluation on export has been studied. Currency devaluation is a measure for promotion of foreign trade in respect of exports. For this, 18 years of data related to exports and USD/INR exchange rate has been collected for financial years of 2000 to 2017. Statistical methods which are applied are Co-efficient of Correlation and Co-efficient of Determination to know the impact of devaluation on exports promotion of India. In this research paper it has been found that a positive correlation is there between exports of India and Rupee devaluation. It shows that nearly 46.9% increase in exports is associated with currency devaluation.

KEYWORDS

foreign trade, currency devaluation, exchange rate, exports.

JEL CODE

1. INTRODUCTION

J n 1973 Bretton Woods International Monetary System collapsed and this put an end to the era of fixed exchange rate regime. Since then most of the countries has started to follow floating exchange rate regimes which brought about advancement in economy but also increased the risk of international trade due to increased volatility in exchange rates.

The Republic of India follows managed floating exchange rate regime, Supply and demand in the market determine the value of INR against other currencies and not by Reserve Bank of India (Central Bank of India) or any other government institution. However sometimes RBI does intervene in the market and that also depends on the situation of Rupee in market. If RBI feels that Rupee is overvalued or undervalued, then using different tools it tries to stabilize the Rupee value against other currencies specifically USD.

Exchange rate fluctuations in the market has a significant impact on the total well being of an economy. Mild and slow fluctuations are said to be healthy while rapid and significant fluctuations can have devastating impact on the trade and general economy. Exchange rate fluctuations can increase or decrease the volume of trade between nations. A developed nation such as Japan which has an export oriented economy can get effected by the fluctuations of exchange rate. In case of a rise in value of Yen against US \$ in the market, export volume of Japan to the United States of America can significantly decline, because now that the Yen is stronger, goods and services from Japan gets more expensive and demands for imported goods and services from Japan decline. This is why central Bank of Japan tries to keep Yen weaker against US \$ and other major currencies in the market.

India has an open economy where prices are determined by supply and demand in the market and it is not intact from positive and negative impacts of exchange rate fluctuations. Definitely fluctuation of INR value against other currencies specially US \$ in the market can have certain impacts on the well being of Indian economy.

USD/INR exchange rate can impact on export and import prices. In case of Rupee devaluation against USD, manufactured goods in India become cheaper for foreigners. It is because of increase in purchasing power of foreign buyers who have US \$ and so they can purchase more Rupees with their dollars to pay for Indian goods and services. In case of appreciation the opposite situation may arise.

2. THEORETICAL BACKGROUND AND LITERATURE REVIEW

Exchange rate fluctuations can make goods and services cheap or expensive for countries involved in international trade and also it increases uncertainties in international trade. Volatility of domestic exchange rate for a country can decrease the total volume of exports due to the uncertainties and higher risks associated. Elahi, Salimi & Masoomzadeh (2015), have concluded that fluctuations in exchange rates have an important role in a nation's economy. Devaluation of national currency which is due to increasing exchange rate can increase competitiveness of a country in international market and promote its exports and effect its trade balance positively (More exports means less trade deficit). If promotion of export is not attained this will rise prices and cause inflation. So, for developing nations, it is of high priority to have more attention toward stabilizing exchange rates through formulation of sound and comprehensive fiscal policies and monetary policies.

Srinivasan & Kalaivani (2012) found out that higher volatility and fluctuations in exchange rates can decrease Indian exports to other countries. And also the real exchange rates in long run has a significant positive effect on real exports, which indicates that devaluation of national currency can be an effective tool in long run for promotion of exports in India. However, in short run the effect of exchange rates are negative.

Sandu & Ghiba (2011) results shows that in Romania the exchange rate had little impact on volume of exports. The devaluation of Leu in Romania resulted a decrease in domestic exports.

Hussain, Hussain & Hussain (2015), found that there is a negative relationship between exchange rate volatility and real export growth in Pakistan. With increase in exchange rate volatility resulted in variability in Pakistan's export.

Zukarnain (2013), Concluded that fluctuations in exchange rate has a profound impact over the total volume of exports from Malaysia to the United States of America and Japan. But this impact differs, where in case of Japan there is a positive impact; while in case of the USA the impact is more negative. This indicates that exchange rate volatility of USD and Ringgit can decrease volume of exports to USA. While an increase in exchange rate volatility between Ringgit and Yen leads to an increase in volume of exports from Malaysia to Japan.

Satawatananon (2014), Has concluded that the bilateral exchange volatility between The United States and Thailand has short run significant impact on 27 American imports and 87 American exports. However, the exchange rate volatility impact is not significant in the long run, since only 29 exporting industries and 10 importing industries are significantly impacted by the exchange rate volatility.

Senadza & Diaba (2018), have studied the impacts of exchange rate fluctuations on imports & exports of around 11 Sub Saharan countries where floating exchange rate regime has been adopted. The study has concluded that there isn't any significant effect of exchange rate fluctuations on imports of these nations. With respect to exports, it found that volatility in short run has a negative effect on exports but positive effects in long run.

Simakova (2014), studied the relationship between volatility of Koruna and foreign trade of Czech Republic and did not find any relationship between these two. So this study indicates that for bringing any improvement in trade balance, influencing exchange rate development is not the solution. Therefore, Czech Republic's foreign trade is not effected by the development of exchange rate but effected by some other factors.

3. DATA COLLECTION AND RESEARCH METHODOLOGY

The "Co-efficient of Correlation" or "Correlation Co-efficient" is a statistical tool which is used to find out the relationship between two variables, namely dependent variable and independent variable. The Co-efficient of Correlation is shown with abbreviation of (r) and it has a range of (+1) to (-1). If the Co-efficient of Correlation (r) indicating a negative value such as (-0.85), it means that there is a strong inverse relationship between dependent and independent variables which means an increase in independent variable will result in a decrease in another variable which is dependent (Variables move in opposite directions). And if the (r) value is a positive number such as (+0.85), it indicates a strong relationship between the two variables where if one variable increases (Independent Variable), the other variable (Dependent Variable) will also increase (Both Variables move in same direction).

A Correlation Co-efficient of +0.85 or -0.85 shows a strong correlation between variables (Dependent and independent Variables). But when Correlation Coefficient value is (-0.2) or (+0.2) then it shows a weak relationship between variables and when the (r) value is equal to (0) then correlation is absent between independent and dependent variable.

After squaring the (r) value the result will be the Co-efficient of Determination. This indicates that when (r) of +0.85 or -0.85 is squared it will result in Co-efficient of Determination with a value of 0.72 or 72% which means that 72% of the change in dependent variable is related with the change in independent variable. A Co-Efficient Correlation of +0.2 or -0.2 shows that 4% (0.2²) change in dependent variable is associated with change in independent variable.

In this paper we use Co-efficient of Correlation and Co-efficient of Determination as tools to find out the relationship between USD/INR exchange rate and Indian export and to understand the degree of dependency between these two variables. In this paper IBM SPSS software is used for calculation of Co-efficient of Correlation.

The data in this paper are mostly secondary data (Secondary data are those data which are already have been collected by some other individuals or institutions and are accessible for researchers and general public. Secondary data is different from primary data where the data is collected from its source directly. Sources of secondary data includes libraries, journals, reports published by public and private sector entities, information available on internet and etc., such as the data published by Reserve Bank of India, Ministry of Commerce, DGFT, World Bank Group Data Bank, OECD reports etc.

In this paper we have collected our data from journals and reliable websites. Data related to exchange rates are collected through OECD (Organization for Economic Cooperation and Development) website and exports related data are collected from world bank group online data bank. The data has been chosen with great care in order to give us an exact and reliable result.

4. DATA ANALYSIS

Exchange rate fluctuations can effect foreign trade in positive and negative ways. An increase in the value of Indian Rupee means that goods and services produced in India are more expensive and in case of Rupee devaluation, goods and services produced in India become cheaper for foreign buyers (Importers). In this paper we will find out if Rupee devaluation has any significant relationship with exports.

In the 1965 Ministry of Commerce of the government of India established "Federation of Indian Export Organizations" in order to promote India's trade with other nations. Now India is among top 10 exporter nations in the world. India's export has seen a major growth in last few years.

Following chart shows India's Exports during last 18 years (2000-2017):



Note. Data for Exports of India from World Bank Data bank (2018)

Through figure 1 it is quite clear that Indian export volume is very volatile. India's exports from 2000 till 2008 have an increasing upward trend and in 2008 when financial crisis originated from USA, hit the world economy it also effected Indian economy in negative manner. Indian exports show a decline in the year 2008-2009 and then again starts growing upwardly up to 2013 and again starts declining for 2 subsequent years and then again starts growing. To find out relationship between exports and Rupee's value fluctuations we need to compare both variables. Table 1 shows average USD/INR exchange rate and Indian Export volume for last 18 years (2000-2017):

TABLE 1: USD/INR EXCHANGE RATE & EXPORTS IN MILLION USD

Year	USD/INR Exchange Rate	Exports in MIL USD	
2000	44.94	60697	
2001	47.19	60782	
2002	48.61	73234	
2003	46.58	90568	
2004	45.32	126271	
2005	44.10	160360	
2006	45.31	199379	
2007	41.35	252325	
2008	43.51	288043	
2009	48.41	272938	
2010	45.73	374237	
2011	46.67	447384	
2012	53.44	448401	
2013	58.60	472180	
2014	61.03	468346	
2015	64.15	416787	
2016	67.20	439266	
2017	65.12	490079	

Note. Data for Exports of India from World Bank Data bank (2018), Data for Exchange Rates from OECD Indicators (2018)

Using table 1 data we find out relationship between USD/INR exchange rate and exports 18 years by calculating "Co-Efficient of Correlation". To calculate Coefficient of Correlation IBM SPSS software has been used.

	Correlation	IS	
		Exports	ExchangeRat e
Exports	Pearson Correlation	1	.685**
	Sig. (2-tailed)		.002
	N	18	18
ExchangeRate	Pearson Correlation	.685**	1
	Sig. (2-tailed)	.002	
	N	18	18

TABLE 2: CO-EFFICIENT OF CORRELATION

In table 2, Co-efficient of correlation between Exports and Exchange Rate fluctuations (r= +0.685) on n=18 observations indicates highly positive correlation between the two variables. To find out the "Co-efficient of Determination" we square the r value:

r²= +0.685² r²= 0.469 or 46.9%

So a "Co-efficient Correlation" of r= +0.685 will lead to a "Co-efficient of Determination" of (0.469) or (46.9%). This shows us that 46.9% change in exports is associated with the change in USD/INR exchange rate.

5. CONCLUSION AND DISCUSSION

This paper empirically examines the relationship between USD/INR exchange rate fluctuations and exports in India. We calculated "Co-efficient of Correlation" value and "Co-efficient of Determination" to find out the relationship between these two variables. Our findings indicate a significant high positive correlation between currency (INR) devaluation and exports of India. If value of USD increases against Indian Rupee (Devaluation of Rupee), demand for Indian goods and services increases because goods and services produced in India become cheaper and attractive for foreign buyers (Importers) and in case of Rupee appreciates, goods and services become unattractive or expensive so demand for Indian goods and services fall. So it is very important to keep Indian Rupee (INR) value low against US \$ and other major currencies in order to boost and promote exports and decrease trade deficit.

There is also a High volatility and fluctuations in USD/INR exchange rate that can impact foreign trade in a negative manner and discourage demand for goods and services produced in India due to the uncertainty of exchange rate so it is also very crucial for India to stabilize a lower Rupee value against other major currencies such as USD and avoid high volatility.

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