A Study on Sales Decline of Real Estate Sector in Bangladesh

Sayedul Anam¹ Md. Yahya Pramanic²

Abstract: The real estate sector in Bangladesh has been experiencing a downturn for last few years. But the reasons behind its change of fortune are varied and disproportionate. In major cities especially Dhaka and Chittagong, the problem of allocation in housing is increasing day by day. Because the change in population in the two cities has been rapid, housing shortage has been severe. The majority of the citizens fall within middle income or low income groups. The contributions of the real estate developer companies in solving this problem have been minimal at best. Initially this sector experienced rapid growth but now for survival it faces different degree of challenges. The membership of the REHAB is 1121 and there are other non member companies operating in this sector. However, most of them are operating at a loss because of decreasing sale in the ready-made apartments. Hence, the purpose of this study is to identify the issues that create the fall in demand in the market for readymade apartments.

Key words: REHAB, idiom, loading, parallel test, pattern matrix.

Introduction

The real estate market had seen a huge setback worldwide as a result of the worldwide financial crisis of 2008. However, the localized effects in Bangladesh were not really pronounced before the Stock Exchange crash in 2011. The real estate bubble that was fueled by the stock market bubble was heavily affected by the downturn in the market.

Given the extent of the investment in the real estate sector, it can be assumed that the sellers in the real estate market are highly motivated to make a deal. However, the reason cited for the downturn in the market is the lack of demand. Consumers are less willing to indulge in long term major investments such as purchase of property given that most of the financial market had taken a nosedive.

Bangladesh real estate market is an interesting study because of the sheer contrast it offers to the US market. In the US, the post dot com recession was countered by generating growth in the real estate market. The entire boom in the financial markets was fueled by an ever increasing property values, leading to the creation of the subprime bubble.

Senior Lecturer, Department of Business Administration, Faculty of Business and Economics, Daffodil International University

Lecturer, Department of Business Administration, Dept. of natural Science, Daffodil International University

In the Bangladesh market, however, the boom in real estate was fueled both by urban migration and subsequent increase in housing demands and the financial bubble created by a booming securities market. The private sector real estate investment catered solely to the demand created by the robust stock market. As such, the properties that were developed mostly by the private real estate developers were aimed at premium pricing markets.

Development of public housing, in contrast, has been painstakingly slow and fraught with the problems that are typical of public sector projects. The value generated in the real estate market usually has come exclusively from the private sector. As such, the commercial banks and other lending institutions are also heavily affected in terms of the downturn.

In Bangladesh, the commercial banks, both public and private, face a rather unique problem of high proportion of non-performing loans. However, the problem in the commercial banking sector is exacerbated by the failure of the real estate sector to deliver. A significant amount of private sector investment has been compromised by the downward trend in the real estate sector, with ripple effects in the other areas which are overseen by the commercial banking system.

The stalling of growth in the real estate market has exposed a particular vulnerability in the Bangladesh economy. No matter how much Bangladesh becomes part of the emerging markets, it continues to receive a disproportionate amount of global investment and very little attention from the global investment trends in real estate. Some parts of the emerging markets such as Malaysia and Thailand are booming because they are recipient of the major investment funding by the global financial systems with particular attention in the real estate sector. However, on the other end of the emerging market spectrum, Bangladesh receives little or no attention in its real estate sector both in terms of investment and development as well as international buyers.

This lack of consumer demand in Bangladesh real estate is true both in terms of local as well as international buyers. The purpose of this paper is to examine the factors that lead to the reduction in consumer demand that is contributing to such a lack of growth in the sector. Historically, for Bangladesh real estate has always been one of the most successful sectors of the economy. It would have grave consequences in the long term development of the economy if this sector continues to experience such recessionary impact.

Literature Review

Since the end of the Cold War and the beginning of the globalization phenomenon, the international market for real estate has become highly diversified and lucrative in terms of return on investment. Rapid development in transfer of financial technology has enabled the international financial system to pour money into the real estate assets of the emerging markets (Murray). It is usual for investors and fund managers assign capital to chosen regions and countries before selecting particular forms of real estate (Baum, 2009). There is a great deal of relevance to the choice of a country because social

interaction, provided by spatial proximity, helps to build trustworthiness and rapport, which are crucial for getting market information (Leyshon and Thrift, 1997, Agnes, 2000). Hence the importance of geography in portfolio choice, savings and investment, affecting the investor's decisions and returns (Stulz, 2005). As a result, allocation of capital among countries is rather uneven, often due to barriers which are perceived as well as actual ones (Murray).

Given that if the degree of integration between national markets is high, the potential benefit from international diversification would be minimal (e.g., Taylor and Tonks, 1989; Bessler and Yang, 2003), it gives us greater insight into the extent to which international investment in the property market is affected by localized factors. Many such factors such as exchange rate risk, information availability, legal and tax differences, foreign ownership restrictions, home bias etc. create the impediments to free flows of capital funds across national borders (Errunza and Losq, 1985).

Other factors that continue to affect the real estate market in the developed world are (1) macroeconomic factors, such as real GDP growth, employment, inflation, monetary policies, and fiscal policies; (2) microeconomic/financial factors, including rental costs as well as real property financing, construction, and transaction costs; and (3) regulatory factors, such as property laws, tax rules, and leasing regulations associated with real estate. (J Yang et al, 2005)

However, it has not been demonstrated whether countries that are not high on the list of international investors would necessarily experience lower social benefits as a result of less entry into their real estate markets. Given that international investment has made it easier to expand the real estate market in a global way, we can perceive that certain uniformities of the real estate market in the developed world would also become part of the global market. In particular, the low barriers to entry in the real estate market results in the same efficiency distributions as they do in the developed country markets such as the US.

Moreover, the similarities indicate that the low barriers to entry would result in creation of inefficiency in the emerging real estate markets. In the US market, low barriers lead to loss of efficiency. (Hsieh and Moretti, 2003)

Furthermore, as we have seen before, the emerging markets do not fare equally and the result of the European markets would be a good indicator of how the former would pan out. The European market for real estate have had a disproportionate impact due to the common currency, with the advanced industrial nations getting a greater share of the pie and lesser industrial countries having little or no impact. (Yang et al 2005).

The other characteristics of the real estate property market are the tendency towards information asymmetry and prices being sticky downwards. In particular, real estate property prices are subject to the psychological point of initial purchasing price (Fabozzi et al, 2011). Given that certain emerging markets experience fluctuation in financial markets more than others, this would clearly mean two things: global investments are disproportionate among the emerging markets and those with less fluctuations and steady economic growth would get greater allocation of the global capital (Baum, 2009).

In the face of dual challenge of global financial crisis of 2008 and climate change issues, the emerging markets as well as OECD countries have developed a trend towards environmentally sustainable real estate development as a selling point. Empirical research has revealed that LEED and ENERGY STAR4 buildings on average have higher value, rent, and occupancy than comparable conventional buildings (Miller, Spivey, and Florance, 2008; Dermisi, 2009; Fuerst and McAllister, 2009; Eichholtz, Kok, and Quigley, 2010; Wiley, Benefield, and Johnson, 2010). Clearly, consumers are more inclined towards real estate properties which are "green" in nature and therefore developers feel compelled towards justifying the extra cost that would be incurred in developing properties that are environmentally sustainable (Galuppo and Tu, 2010). However, the cost of creating energy efficient buildings is not without challenges: the volatility of demand and the fall in the growth of investment in the post financial crisis of 2008 makes increasingly difficult to allocate resources more efficiently (WBCSD).

Data and Methodology

The data used in this study were collected from 150 employees in 30 companies among 1121 registered member of Real Estate and Housing Association of Bangladesh (REHAB) and 50 customers who were found capable of purchasing apartment. By summing over the market this research find 31 variables or sectors as vital in fall the demand of apartment in Bangladesh. The factors are:

 X_1 = Income X_{16} = Bank Loans Availability X_2 = Cost of Living X_{17} = Green Environmental

 X_3 = National Economic growth X_{18} = Location

 X_4 = Fixed Assets investment X_{19} = benefit from renting X_5 = political stability X_{20} = Govt. Financial Incentive X_6 = investment from NRB Clients X_{21} = Tax Incentive X_7 = Rate of Price change of Apartments X_{22} = Foreign Investment X_8 = selling effort X_{23} = natural disaster

 X_9 = bank interest for House Loan X_{24} = Resources availability to Build

High Rise Building

 $X_{10} = \text{Risk of investment}$ $X_{25} = \text{Awareness about better Housing}$

 X_{11} = Frequency of promotional activities X_{26} = mortgage availability X_{12} = Emigration rate X_{27} = Government Regulation X_{13} = Quality of Construction Work X_{28} = Energy Support X_{14} = saving rate X_{29} = Energy Price X_{15} = handover time X_{30} = Customized interior design

 X_{31} = Entrepreneur experience

The Orthogonal Factor Model

The observable random vector \mathbf{X} , with p components, has mean μ and covariance matrix Σ . The factor model postulates that \mathbf{X} is linearly dependent upon a few

unobservable random variables F_1, F_2, \dots, F_m , called *common factors*, and p additional sources of variation $\varepsilon_1, \varepsilon_2, \dots, \varepsilon_n$, called *error* or sometimes *specific* the factor In particular. analysis model

$$X_{1} - \mu_{1} = l_{11}F_{1} + l_{12}F_{2} + \dots + l_{1m}F_{m} + \varepsilon_{1}$$

$$X_{2} - \mu_{2} = l_{21}F_{1} + l_{22}F_{2} + \dots + l_{2m}F_{m} + \varepsilon_{2}$$

$$\vdots$$
(1)

 $X_{p} - \mu_{p} = l_{p1}F_{1} + l_{p2}F_{2} + \cdots + l_{pm}F_{m} + \varepsilon_{p}$

or, in matrix notation.

$$\mathbf{X} - \mathbf{\mu} = + \mathbf{L} \sum_{(p \times m)} \mathbf{F} + \mathbf{\varepsilon}$$

$$(2)$$

 $\mu_i = mean$ of variable i Where,

 $\varepsilon_i = i$ th specific factor

 $F_i = j$ th common factor

 $l_{ii} = loading$ of the *i* th variable on the *j*th factor

 $Cov(\mathbf{F}) = E(\mathbf{FF}') = \mathbf{I}_{(m \times m)}$

We assume that,

and that **F** and ε are independent so, $Cov(\varepsilon, \mathbf{F}) = E(\varepsilon \mathbf{F}) = \mathbf{0}$

These assumptions and the relation in (2) constitute the *orthogonal factor model*.

Analysis and Discussion

There are 31 variables that act as a barrier to explore the real estate sector, let the variables are defined as:

 $X_1 = \text{Income}$ X_{16} = Bank Loans Availability

 $X_2 = \text{Cost of Living}$ X_{17} = Green Environment

 X_{18} = Location X_3 = National Economic growth

 X_{19} = benefit from renting X_4 = Fixed Assets investment X_5 = political stability X_{20} = Govt. Financial Incentive X_6 = investment from NRB Clients $X_{21} = \text{Tax Incentive}$ X_7 = Rate of Price change of Apartments X_{22} = Foreign Investment

 X_8 = selling effort X_{23} = natural disaster

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 X_{12} = Emigration rate X_{27} = Government Regulation X_{13} = Quality of Construction Work X_{28} = Energy Support

 X_{14} = saving rate X_{29} = Energy Price X_{15} = handover time X_{30} = Customized interior design

 X_{31} = Entrepreneur experience

From our data set, the calculated correlation matrix of 31 variables from real estate sales drop is given in appendix Image-1, and Image-2.

The issues of sales drop have been factorized using PCA (principal component analysis) with direct oblimin. In appendix Table-1 represents eigenvalues, percentage of variance, and percentage of cumulative variance. There are thirty one number of issues that included for analysis. Among them twelve factors eigenvalue are more than one and these cumulative variance is 72.41% of the overall variance. The factor eigenvalue is greater than 1; it explains more variance than a single variable. From here, we will consider the twelve factors model.

From the scree plot, this analysis focuses the change of alb, only the components above the break for alb are the components. The below scree plot, there are two components occurred above the break for alb.

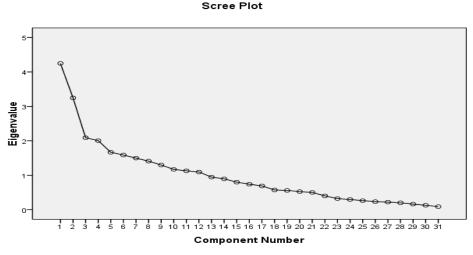


Figure-01: Scree plot

The third way, we can determine our component by parallel analysis. They extract and examine principal component eigenvalues to determine the number of common/principal axis factors!? The Monta Carlo PCA parallel analysis procedure was recommended by Cattell and it is the procedure that he used in his scree tests. It is also the procedure used in the SPSS and SAS factor analysis routines (O'Connor, B. P. 2000). Applying the Monta Carlo PCA parallel analysis test has given the results;

Parallel Analysis:

Principal Components & Random Normal Data Generation

Specifications for this Run:

Ncases 72 Nvars 31 Ndatsets 1000 Percent 95

Raw Data Eigenvalues, & Mean & Percentile Random Data Eigenvalues

Root	Raw Data	Means	Prentyle
1.000000	4.249020	2.492439	2.728884
2.000000	3.247010	2.251962	2.409542
3.000000	2.090617	2.081375	2.216149
4.000000	2.005465	1.931813	2.051987
5.000000	1.666940	1.804380	1.911439
6.000000	1.587943	1.689342	1.787261
7.000000	1.498152	1.581869	1.671544
8.000000	1.409948	1.484090	1.568201
9.000000	1.297724	1.390820	1.471260
10.000000	1.170627	1.302310	1.375464
11.000000	1.129247	1.221162	1.292603
12.000000	1.094522	1.142570	1.217156
13.000000	.946157	1.067582	1.134896
14.000000	.896424	.997066	1.064546
15.000000	.799972	.929354	.991887
16.000000	.740060	.864860	.925551
17.000000	.690495	.802182	.859231
18.000000	.573849	.742795	.799650
19.000000	.559638	.687144	.740243
20.000000	.524784	.632636	.685817
21.000000	.501572	.581363	.631496
22.000000	.401067	.530360	.580422
23.000000	.323370	.481437	.532651
24.000000	.296983	.435838	.485051
25.000000	.263739	.390766	.435284
26.000000	.234203	.347445	.390808
27.000000	.220589	.307776	.349730
28.000000	.200209	.267797	.306928
29.000000	.162197	.227747	.266666
30.000000	.128848	.186998	.224298
31.000000	.088628	.144721	.183288

The above table the first estimated eigenvalue (4.249020) is larger than 95% bench mark criterion eigenvalue from the multi collinear simulation (2.728884). Similarly the second estimated eigenvalue (3.247010) is also larger the bench mark eigenvalue (2.409542). So these two eigenvalues are significant. But rests of all estimated eigenvalues are less than bench mark eigenvalue. From Scree Plot and Monte Carlo PCA parallel analysis indicates most of the loadings are involved in two components.

In Component Matrix (Appendix, Table-2) most of the idioms load in first two components. Very few idioms load in the rest of the components. From this matrix we can conclude that first two components have best and strongest relationship among the different idioms.

For more confirmation the next steps are to analyze the pattern (Appendix, Table-3). Five idioms load about point three in first component and the six idioms load in second component. But rest of components contain three or less than three idioms. Any components load more than three idioms considering the factor.

From the above discussion we confirm two factors model for our analysis. For that again run the SPSS to fix the number of factor two. Then the pattern matrix (Appendix, Table-4) presents fourteen idioms including in first component and eleven idiom including in second component and rest of idioms neither in first nor in second component because of their less impact on sales drop of real estate sector (below 0.3).

Factor 1 has been named as 'State activities toward real estate sector and its response' that include the following variables;

- i) Political stability
- ii) Government Financial Incentive
- iii) Tax Incentive
- iv) Foreign Investment
- v) Awareness about better Housing
- vi) Mortgage availability
- vii) Licensing Problem
- viii) Handover time
- ix) Saving rate
- x) Quality of Construction Work
- xi) Location
- xii) Benefit from renting
- xiii) Investment by NRB Clients
- xiv)Fixed Assets investment

Factor 2 has been named as 'Customer financial strength and organizational operation activities' that include the following variables;

- i) Income
- ii) Cost of Living
- iii) National Economic growth
- iv) Rate of Price change
- v) Selling effort
- vi) Frequency of promotional activities
- vii) Resource availability to Build High Rise Building
- viii) Emigration
- ix) Bank Loans Availability
- x) Risk of Investment
- xi) Bank interest for House Loan

There are six variable namely Environment, natural disaster, Government Regulation, Energy Support, and Energy Price, Customized interior design rather than purchase not including any factor because less correlation coefficient. This indicates these variables have no impact on sales drop in real estate sector.

Conclusion:

The research is an analysis to identify the reasons that are the barrier to explore the real estate sector. From the above discussion we can conclude that there are two major factors that barrier on sales drop in real estate sector. First factor that indicates the state activities towards the real state that are not satisfactory and similarly the organizational responses are not enough towards the state. Second factor namely customer financial strength and organizational operational activities that focus on customer are not financially capable or do not get enough financial support to purchase apartment and similarly organization has lack activity to attack customer to buy their apartment. This research concludes that these two factors are the most challenging to sustain and explore Real Estate sector.

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Appendix:

Image-1:

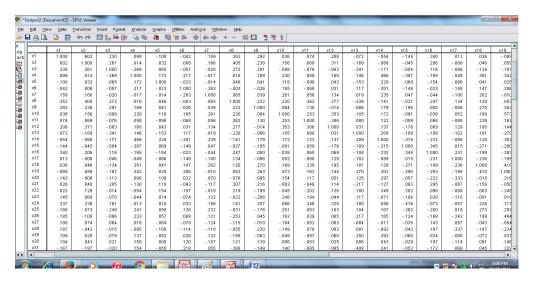


Image-2:

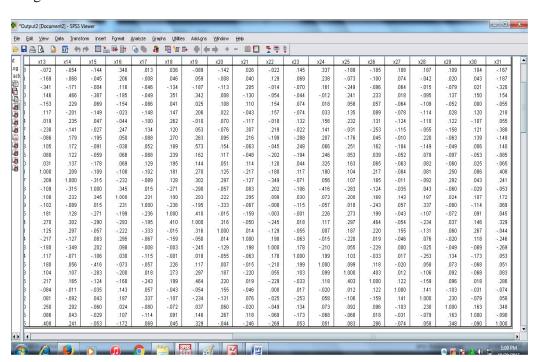


Table-1:

Table-2:

	Total Variance Explained								
	I	nitial Eige	nvalues	Extrac	Rotation Sums of Squared Loadings				
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total		
1	4.249	13.707	13.707	4.249	13.707	13.707	2.911		
2	3.247	10.474	24.181	3.247	10.474	24.181	2.869		
3	2.091	6.744	30.925	2.091	6.744	30.925	1.987		
4	2.005	6.469	37.394	2.005	6.469	37.394	1.974		
5	1.667	5.377	42.771	1.667	5.377	42.771	1.659		
6	1.588	5.122	47.894	1.588	5.122	47.894	2.056		
7	1.498	4.833	52.726	1.498	4.833	52.726	2,346		
8	1.410	4.548	57.275	1.410	4.548	57.275	1.662		
9	1.298	4.186	61.461	1.298	4.186	61.461	1.380		
10	1.171	3.776	65.237	1.171	3.776	65.237	1.951		
11	1.129	3.643	68.880	1.129	3.643	68.880	1.942		
12	1.095	3.531	72.410	1.095	3.531	72.410	2.078		
13	.946	3.052	75.462	l					
14	.896	2.892	78.354	l					
15	.800	2.581	80.935	l					
16	.740	2.387	83.322	i					
17	.690	2.227	85.549	l					
18	.574	1.851	87.401	l					
19	.560	1.805	89.206	l					
20	.525	1.693	90.899	1					
21	.502	1.618	92.517	i	l .	l .			
22	.401	1.294	93.810	i					
23	.323	1.043	94.854	l					
24	.297	.958	95.812	i	l .	l .			
25	.264	.851	96.662	l	l .	l			
26	.234	.755	97.418	l					
27	.221	.712	98.129	i	l	l .			
28	.200	.646	98.775	i					
29	.162	.523	99.298	l					
30	.129	.416	99.714	i	l	l .			
31	.089	.286	100.000	i					

					Comp	onent I	Matrix"	,				
						Comp	onent					
	1	2	3	4	5	6	7	8	9	10	11	12
x1		.665	.347			.320						
x 2		.684										
x1 x2 x3 x4 x5 x6 x7	389	.378								.304		
x4	.562							.523				
x 5			374					.524				
x6					.569	.405	302					
x 7				.312	506		.315					.407
x8		.715										
x9		.526		522								
x10	.468	.340					.303				317	
x11		.368				499		347				
x12		.521		.322								
x13	.485		.315									
x14	.575							.438				
x15	481						.535					
x16	483						.346					
x17			.313	.344	.343	339		.335				
x18	.514	.307								360		.373
x19	.743											
x20	.373			407			.317		.359			312
x21	309			305						.409	.363	
x22	338		524									
x23				.570	355	.363						
x24		.467					330				.343	
x25	.514								.384			
x26	.568								.334	.306		.386
x27									.797			
x28			.640									
x29			.404			.525	.323					
x30				418		.402						
x 31	.475	394	.336									

Table-3:

Table-3:

x8 .447 x9 .319 x10 .775 x11 .319 x12 .329 x13 .329 x14 .329 x15 .377 x16 .467 x17 .728 x18 .3814 x19 .759 x20 .718 x21 .366 x22 .408 x23 .788 x24 .327 x25 .327 x26 .487 x27 .396 x28 .393 .416 .438 x29 .351 x30 .368 .327 .396 .352 .367 .352						Patte	ern M:	utrix*					
x1 .870 x2 .792 x3 .355 x4 .693 x5 .795 x7 .424 x8 .447 x9 .319 x10 .775 x11 .319 x12 .329 x13 .467 x14 .488 x15 .467 x18 .718 x19 .759 x20 .718 x21 .366 x22 .408 x23 .354 x24 .255 x25 .327 x26 .487 x27 .396 x28 .393 x416 .438 x29 .352 396 .352 397 .416 x27 .396 x38 .393 -416 .438 .867 .352							Comp						
22		1	2	3	4	5	6	7	8	9	10	11	12
x10 .775 x11 .775 x12 .329 x13 .329 x14 .377 x15 .314 x16 .467 x17 .728 x18 .314 x19 .759 x20 .718 x21 .366 x22 .408 x23 .363 x24 .725 x25 .327 x26 .487 x27 .396 x28 .393 x29 .568	x1		.870										
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x10 .775 x11 .775 x12 .329 x13 .329 x14 .377 x15 .314 x16 .467 x17 .728 x18 .314 x19 .759 x20 .718 x21 .366 x22 .408 x23 .363 x24 .725 x25 .327 x26 .487 x27 .396 x28 .393 x29 .568	x 7					560							.613
x10 .775 x11 .775 x12 .329 x13 .329 x14 .377 x15 .314 x16 .467 x17 .728 x18 .314 x19 .759 x20 .718 x21 .366 x22 .408 x23 .363 x24 .725 x25 .327 x26 .487 x27 .396 x28 .393 x29 .568	x8											.393	
x11 x12 x12 x13 x14 x15 x16 .467 x17 .728 x18 .814 x19 .759 x20 .718 x21 .366 x22 .498 x23 .788 x24 .725 x25 .327 x26 .487 x27 .396 x28 .393 x29 .368 x29 .327 x20 .352 x27 .396 x28 .393 x29 .360 x20 .360 x20 .360 x30 .361 x30 .362 x30 .363 x34 .455 x35 .367 x36 .367 <td>x9</td> <td></td> <td>.319</td> <td></td> <td>719</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- 1</td>	x9		.319		719								- 1
x12	x10	.775											
x13 497 -377 -460 x15 -517 -517 -377 -460 x15 -467 -517 -517 -313 x17 -759 -718 -718 -313 x21 -759 -718 -366 -363 -354 x22 -408 -788 -725 327 498 x24 -725 327 498 x25 326 355 355 x26 487 -867 366 x27 396 355 x28 393 -416 438 x29 -568 -887									329				
x14 x15 x16 .467 x16 .467 .728 .517 .814 x17 .759 .701 .701 x20 .718 .366 .363 .363 x21 .408 .788 .725 .327 x23 .788 .725 .327 .494 x25 .367 .352 .867 x27 .28 .393 .416 .438 .839 x29 .568 .839 .246 .838												.721	
x15 .467 x16 .467 x17 .728 x18 .759 x20 .718 x21 .366 x22 .408 x23 .788 x24 .725 x25 .327 x26 .487 x27 .396 x28 .393 x29 .368 x39 .416 x39 .354 x29 .352 x30 .368 x39 .416 x39 .352 x39 .416 x39 .352 x39 .416 x39 .352 x39 .416 x39 .352 x39 .352 x39 .352 x39 .352 x39 .352 x30 .352 x30 .352 x30 .352 x30 .352 x30 .352 x30 .354 x30 .354 x30 .354 x30 .354 x30 .354 x30 .354							.497		377				
x16 .467 x17 .728 x18 .759 x20 -718 x21 .366 x22 -408 x23 .788 x24 .725 x25 .327 x26 .487 x27 .396 x28 .393 x41 .867 x29 .568						517					460		
x17 .728 x18 .759 x20 -718 x21 .366 x22 .408 x23 .788 x24 .354 x25 .327 x26 .487 x27 .396 x28 .393 .416 .438 x29 .308 x30 .568													
x18 x19 .759 x20 718 x21 .408 x23 .788 x24 .725 x25 .327 x26 .487 x27 .393 x28 .393 .416 .438 x29 .867 x30 .568			.467					.488					
x19 .759 x20 .718 x21 .366 x22 .408 .788 .725 x24 .725 x26 .487 x27 .396 x28 .393 x29 .867 x39 .394 x39 .394 x39 .393 x30 .394 x30 .394 x39 .394 x39 .394 x39 .394				.728									
x20													.701
x21		.759											- 1
x22 -408 366 363 308 x23 -725 327 498 x26 487 396 352 x27 867 867 352 x28 393 -416 438 839 x29 -568 839 839				718									
x23											.455		- 1
224 25 354 395 395 355 355 355 355 355 355 355 355		408				.366			.363				.308
x25					.788								- 1
x26 487	x24							725			.354		
x27	x25												
x28		.487											.355
	×27									.867			
	x28			.393	416								
X30 -,308	x29						.839						
	X30	١		568									ı
x31 .484 .498	x31	.484					.498						

	Con	nponent
	1	2
Income	305	.642
LivingCost	259	.668
EconomicDownfall	465	.326
CustomerInvestment	.516	.224
Politics	.329	
NRBInvestment	.314	
Price	.175	.443
SellingEffort	367	.685
HouseLoan	l i	.537
InvestmentInsecure	.382	.399
PromotionalActivity	.125	.394
Emigration	i i	.546
Construction	.523	151
Savings	.558	
Handover	.413	321
LoanAvailability	132	.598
StayGreen	267	
PrimeArea	.434	.373
Benifit	.688	.272
FinancialIncentive	.364	
TaxIncentive	.364	.231
ForeignInvestment	345	
EarthQuack	l i	
Resource	.150	.499
Awareness	.510	
LongtermPayment	.578	
GovernmentRegulatory	l i	
EnergySupport	231	
EnergyPrice	.243	
Selfestablish		.164
License	.554	331