International Journal of Physical and Social Science Vol. 7 Issue 8, August 2017 ISSN: 2249-5894 Impact Factor: 6.644 Journal Homepage: <u>http://www.ijmra.us</u>, Email: editorijmie@gmail.com Double-Blind Peer Reviewed Refereed Open Access International Journal - Included in the International Serial Directories Indexed & Listed at: Ulrich's Periodicals Directory ©, U.S.A., Open J-Gage as well as in Cabell's Directories of Publishing Opportunities, U.S.A

ANALYSIS OF CONTROLLING VARIABLES OF COPING STRATEGIES BY CORRELATION MATRIX: A STUDY ON SLUMS OF MIDNAPORE MUNICIPALITY, WESTBENGAL

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Abstract:

Coping strategy is the approaches that people use in order to deal with stresses, pain and natural changes that experiences every day in their life. It is conscious or instinctively choice of adaptation to phenomenon stresses that that enhances control over behaviour or gives psychological comfort. It leads to either cohesion in the community/society or can also be misery and/or crucial life that include migration, begging, child labour, violence, prostitution, even selling organs etc. Most of the cases poor neighbourhoods in each urban area are having overcrowding and congestion, extremely poor sanitation, lack of civic amenities and deviant behaviour, overcrowding, poor housing, choked drains, lack of garbage disposal facilities, poor personal hygiene, and hygienic conditions that are specially hall marks of urban slums in India. Likewise, slum dwellers are comprises diverse group of people with different interests, means and background. Slum dwellers in every urban area willingly or unwillingly try to solve or cope with the existing problems or adopt some strategies that could effective or harmful.

The study is an attempt to measure the degree of coping strategy and its relation with major variables that impact on adapting such type of coping strategies of the inhabitants over different slums in Midnapore Municipal Area, West Bengal by simple composite index & correlation matrix using SPSS-20 statistical software. In order to do the same, all slum neighbourhoods have

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been identified through in depth field survey with the help of earlier collected slum related information from municipality of Midnapore town. Relevant questionnaires used to collect the related information from households using appropriate sampling techniques.

Key words: Slum, Survival skills, Standard of living, Composite index, Correlation Matrix

Introduction:

The strategies adopting during stress, pain or critical situations which we experiences in our daily life or span of life is known to be coping strategy. It is conscious or instinctively choice of adaptation to the natural changes of the people which controlled our behaviour or provide some strength by which we overcome some critical situation, stresses and pain and/or also gives psychological comforts. Coping Strategy is two types-Positive coping strategy leads to positive changes in the society i.e. cohesion in the community/society, intention of development of economic status etc. and negative coping strategy can be misery and/or crucial life that include migration, begging, child labour, violence, prostitution, even selling organs, crime etc.

A rural or urban household settlement has a significant influence on the choice of coping strategy. Lokshin and Yemtsov (2004) find that urban households are less likely to adopt active coping strategy than those in the rural areas. The urban slum chronically poor are characterised by food insecurity every year, poor children's school attendance and low level of assets. It has been observed however, that chronic poverty is mostly considered as an outcome of shocks or stresses such as climatic, economic, Political/social/legal, Crime ,Health shocks (e.g. death and illness) and miscellaneous shocks (e.g. conflicts and disputes with other family members, neighbours or other residents regarding access to land or other assets) etc.(Dercon *et al.*, 2005). However, different sufferers of shock/ stresses adopt different strategies in coping with the crises. When households suffer shock/stresses, they do not stay on inactive but adopted different coping strategies. These coping strategies are substitute mechanisms for when habitual / daily needs are interrupted. In this situation, the first attempt households do is that to minimize risks and administer losses to ensure some minimal level of sustenance. It also appears that most people use coping strategies that are not effective. Hence, there are some variables which have been significant role behind adapting coping strategies of the households.

Objectives:

- To measure the degree of coping strategy of the slum dwellers.
- Find out the variables that impact on coping strategies of the slum dwellers.

Methodology:

Sampling Techniques:

The study is being mostly both subjective and analytical. Therefore for this purpose, 20 slums were randomly selected. From each selected slum, 10 households were again randomly selected. Purposive sampling was adapted to some degree in choosing the opinion of those households together who are participated in group discussion personally.

| Key questions | Data | |
|----------------------|----------------------------|--|
| 1.Standard of living | Total number of assets pe | |
| | household. | |
| 2.Degree of | Improve current economic | |
| coping | condition, Reduce | |
| strategy | expenditure on food items, | |
| | purchasing pattern, | |
| | housing and dwellings. | |

Data Collection:

| Division | Data | Procedure of data collection | | |
|-----------|--|--|--|--|
| Standard | Total number of assets per household, | Household survey through structured | | |
| of living | Income, Expenditure, Housing. | Questionnaire | | |
| Degree of | Improve your current economic condition, | Household survey through structured | | |
| coping | Reduce expenditure on food items, | s, Questionnaire & Focus group discussion. | | |
| strategy | purchasing pattern, housing and dwellings. | | | |

Data Analysis:

The study was conducted based on primary data collected from the respondents. The data were analyzed using SPSS (20.0 version) for Windows 7. Descriptive analyses were conducted by calculating the frequency distribution of variables. Both descriptive (Composite Index) and inferential analyses



Design of the Study:

(Correlation Matrix) were used to achieve the objectives of study.

Result & Discussion:

Different variables are responsible for adapting coping strategies of the households. These variables are instinctive or inefficiency of the households that hindrances and/or influences to cope with poverty. Occasionally these variables is significant or insignificant for the adapting coping strategies .Therefore, controlled variable i.e. Status of coping is tested against the 35-controlling variables by Pearson correlation matrix with 0.25-0.02 level of significance and results are given in the table-1, as below:

| Га | Cable-1.: Correlations Matrix (Pearson Correlation) | | | |
|----|---|---------------------|------|-----------------|
| | | Controlled variable | of | |
| | Controlling Variables | coping | | |
| ι. | Sex of Head of the Household | Pearson Correlation | .001 | Not significant |
| | | Sig. (2-tailed) | .986 | - |
| 2. | Age of Head of the household | Pearson Correlation | 079 | Not significant |
| | | Sig. (2-tailed) | .265 | 1 |
| 3. | Marital Status of Head of the | Pearson Correlation | .063 | Not significant |
| | household | Sig. (2-tailed) | .373 | 1 |
| 1. | Marriage Age of Head of the | Pearson Correlation | 036 | Not significant |
| | household | Sig. (2-tailed) | .617 | 1 |
| 5. | Educational status of Head of the | Pearson Correlation | 100 | Significant* |
| | household | Sig. (2-tailed) | .157 | 1 |
| 5. | Occupation of Head of the | Pearson Correlation | 083 | Significant* |
| | household | Sig. (2-tailed) | .241 | 1 |
| 7. | Total No. of family member | Pearson Correlation | .113 | Significant* |
| | | Sig. (2-tailed) | .112 | 1 |
| 3. | Total No. of male of the family | Pearson Correlation | .022 | Not significant |
| | | Sig. (2-tailed) | .758 | 1 |
|). | Total No. of female of the family | Pearson Correlation | .151 | Significant** |
| | | Sig. (2-tailed) | .033 | 1 |

| 10. BPL status of the head | Pearson Correlation | 035 | Not significant |
|-------------------------------|---------------------|------|-----------------|
| | Sig. (2-tailed) | .621 | |
| 11. No. of earning members | Pearson Correlation | .002 | Not significant |
| | Sig. (2-tailed) | .981 | |
| 12. Type of family | Pearson Correlation | 051 | Not significant |
| | Sig. (2-tailed) | .478 | |
| 13. years of current place of | Pearson Correlation | .025 | Not significant |
| residence | Sig. (2-tailed) | .728 | |
| 14. Religion | Pearson Correlation | .048 | Not significant |
| | Sig. (2-tailed) | .498 | |
| 15. Caste | Pearson Correlation | 084 | Significant* |
| | Sig. (2-tailed) | .239 | |

| 16. | Bank or post office account | Pearson Correlation | 045 | Not significant |
|-----|-------------------------------------|---------------------|-------|-----------------|
| | | Sig. (2-tailed) | .523 | |
| 17. | Average monthly savings | Pearson Correlation | 125 | Significant* |
| | | Sig. (2-tailed) | .112 | |
| 18. | Type of house | Pearson Correlation | 112 | Significant* |
| | | Sig. (2-tailed) | .115 | |
| 19. | Sources of drinking water | Pearson Correlation | .232 | Significant*** |
| | | Sig. (2-tailed) | .001 | |
| 20. | Toilet facility | Pearson Correlation | .056 | Not significant |
| | | Sig. (2-tailed) | .433 | |
| 21. | Separate bathroom | Pearson Correlation | 011 | Not significant |
| 27. | Years of Living in current place of | Pearson Correlation | 0.033 | Not significant |
| | residence | Sig. (2-tailed) | 0.643 | |
| 29. | Medicine Expenditure | Pearson Correlation | 0.052 | Not significant |

| | Sig. (2-tailed) | 0.486 | |
|---------------------------|---------------------|--------|-----------------|
| 30. Smoking cost | Pearson Correlation | 0.029 | Not significant |
| | Sig. (2-tailed) | 0.753 | |
| 31. Monthly savings | Pearson Correlation | -0.157 | significant** |
| | Sig. (2-tailed) | 0.046 | |
| 32. Total family member | Pearson Correlation | 0.1 | Significant* |
| | Sig. (2-tailed) | 0.16 | |
| 33. Total Earning members | Pearson Correlation | 0.018 | Not significant |
| | Sig. (2-tailed) | 0.801 | |
| 34. Total Family Income | Pearson Correlation | -0.045 | Not significant |
| | Sig. (2-tailed) | 0.525 | |
| 35. Room Density | Pearson Correlation | -0.022 | Not significant |
| | Sig. (2-tailed) | 0.752 | |

- *** Correlation is Significant at the 0.02 level (2-tailed)
- ** Correlation is Significant at the 0.05 level (2-tailed)

*Correlation is Significant at the 0.25 level (2-tailed)

Table-1 indicates the correlation coefficient (Pearson's) value & significance level of the controlling variables by applying Two-tailed test. Three significance levels are considered for the inclusion of the controlling variables as 0.02, 0.05 & 0.25 indicating by *, **, and *** respectively. It is found the little bit of controlling variables are between 0.02 and 0.05level of significance. Therefore, it is signifies that there are some variables which need to be included for significant statistical analysis and results also.

Conclusion:

Slums are crowded and families in slums are struggling to overcome poverty. As regards the influence of household characteristics on coping strategy, the results indicate that household with types of house, single earning members, large family size, low level of education, less amount of assets, family income, illness, female headed and less than 18-years marriage etc have moderate

influences on coping strategies. However, the results also find that monthly family expenditure, family planning, child education and marriage, child labour, family aspects etc. of a household head does not have any significant influence on the ability of a household to adopt active coping strategies. But surprisingly, drug and alcohol intake, skill and strength of work, unconsciousness about job opportunity, expanding money on social ceremonies, political work and biasness, women violence, quarrelling, social unrest and crime increasing day to day rather than taking any strategy to cope with poverty. Therefore, the possibilities for improving the environment through individual action are very limited. However the study observed that the Government has formulated various policies to address poverty vulnerability. Nevertheless, there is still inadequate institutional mechanism and capacity at the grassroots to ensure implementation of the formulated policies and strategies, and in most cases, people at the community level are not aware of the presence of these policies.

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