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Impact of Slum Rehabilitation in Bangalore City: A Study

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Abstract Planning interventions for the inclusive growth of cities gaining importance in recent years. As a society with increasing urban poor with insecure tenure land and inadequate livelihood options, which would cause social and economic strife. Bangalore is one of the fastest growing cities in Asia and it is at the crux of problems associated with rapid urban development, which constitute 576 slums. A rehabilitation project carried out in Panthrpalya Slum under the Basic Services for the Urban Poor (BSUP) sub-mission project of Jawaharlal Nehru National Urban Renewal Programme (JnNURM) in Bangalore. This paper depicts the planning and implementation of slum rehabilitation project of Pantharpalya slum including its constraints and physical and socio-economic impact. Index Terms- Rehabilitation, Evaluation, Impact, Project, Insitu development.

Introduction

Bangalore is the fifth largest metropolis (8.40 million as per 2011 Census) in India and it is globally recognized as Silicon Valley and Information Technology capital of India. Bangalore city has 576 slums, which constitute 7,24,441 slum population and 1,64,786 households as per 2014 figures of the Asha Kiran Mahiti of Karnataka Slum Development Board; of which 232 are declared slums and 344 are undeclared slums. Seventy six per cent of the slum population live below poverty line and hardly 22 per cent of the slum population has monthly income less than Rs.3000. The housing is the most vulnerable condition and about 14 per cent are still living in kutcha houses and 42 per cent living in semi-pucca houses and rest the 45% of the housing stock are pucca houses. Forty two per households depends on public taps and 18 per cent household do not have access to water supply and only 40 per cent households have individual tap connections. Twenty Seven percent household do not have

sewer connection and they mainly depend on community toilets, but, 6% still practice open defecation and 63 percent houses have access to storm water drains.

Slum Rehabilitation Projects under Basic Services for Urban Poor Project

The centrally sponsored programmes namely Jawaharlal Nehru National Urban Renewal Programme (JnNURM) was introduced in 2005. The Basic Services for the Urban Poor (BSUP) was one of the Components of BSUP. The BSUP project was planned in three phases. In the first phase, 45 slums were planned to cover 50000 population which consist of 23 in-situ rehabilitation projects and 22 relocation projects. The average density was 322 dwelling unit per hectare. The second phase consisted of 12 slums to cover 14000 slum dwellers of which 5 were planned for in-situ rehabilitation and 7 for relocation projects. In the third phase, it was intended to cover 15 slums of 16000 slum dwellers under BSUP project. The Karnataka Slum Development Board

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identified 30 slums including Pantharpalya slum, which was selected in the first phase for rehabilitation project by considering it as one of the most vulnerable slums in terms of socioeconomic conditions, physical infrastructure (water supply, toilets, pavements, street lights) and land title.

PANTHARPALYA Pantharapalya slum is situated in Ward Number 31 (Nayandanahalli Ward) of Bruhath Bangalore Mahanagar Palike. The slum existed for more than 30 years. It occupied in an extent of 20000 sq.mts. It is bounded by Bangalore Mysore State Highway on eastern side, storm water drain on western and southern sides and 5.5mt wide road on northern side. The condition of housing was most vulnerable and the majority of the people lived in kutcha and semi-pucca houses. The situation in terms of socio-economic condition and physical infrastructure namely water supply and sanitation were in vulnerable conditions. People were erected houses according to their wishes and there was no security of land tenure.

III. SLUM REHABILITATION PROJECT Pantharpalya slum selected for in-situ rehabilitation with a funding from Jawaharlal Nehru National Urban Renewal Mission project under centrally sponsored scheme. In beginning, it was planned construction of 896 dwelling units in 24 blocks of 32 dwelling units each; later, the project was re-designed construction of 1088 dwelling units to cover 34 blocks. Private consultants were engaged to prepare Detailed Project Report (DPR) which includes topographical sheets, layout plans, dwelling unit plans. Estimates were prepared per Public Works as

Department's schedule of rates and submitted to State level sanctioning committee (SLSC) through Karnataka Urban Infrastructure Development and Finance Corporation (KUIDFC) in 2006, but the project was revised and approved 2011 with an estimated cost of Rs.261.17 crore (cost of the dwelling unit was revised from Rs 1.25lakhs to Rs.1.80 The residential land use was lakhs). increased from 34.5% to 43.5%. Open spaces was reduced from 8% to 3%, civic amenities was reduced from 19% to 9%. The dwelling unit density was increased from 410 dwelling units/ hectare to 516 dwelling units/ hectare. The cluster design approach confirms partially to the neighborhood prescribed design standards. The provision of openings has been to ensure adequate lighting and ventilation, which are some of the factors encouraging a high degree of human activity outdoors, including cooking, washing and sleeping. The typical block plan is shown in fig.4, which reflects the details of designing efficient building envelopes. The carpet area for each dwelling unit and habitable rooms been on par with the building bye laws and National building.

PROJECT IMPLEMENTATION Reinforced Cement Concrete framed structure with nonsolid cement blocks for non-load bearing walls, polymer coated RCC door frames of Nirmithi Kendra's specifications, mild steel door for rooms and PVC doors for toilets/ bath, steel windows/ alazed ventilators were adopted. White washing for internal painting, water proof cement base for external painting and cement concrete flooring specification was followed. Project implementation was taken up in different stages due to non-availability of land for transit sheds. The temporary

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relocation took more time which has affected on time schedule of the project. The water table was available at shallow dept, which necessitated continuous pumping of water while carrying out foundation work. The land is situated in downstream of tank and low lying area and contains clayey soil, sand and bounder filling with combined footing was done. As the extent of land being large that is more than 5 acres and being the in-situ project, trail bores were ascertained for enhancing Safe Bearing Capacity of the soil. Third party inspection and monitoring agency was appointed by the Centre, which used to submit quarterly physical and financial and compliance progress reports regularly. The local community was involved in implementation process.

VI. PROJECT IMPACT The impact assessment was carried-out by employing structured questionnaires, interviews, visual analysis. Interactions were held with the beneficiaries and the personnel who implemented the project. percent sample survey was administered for 100 dwelling units with a random sampling technique. The physical, social, economic and environmental impact assessments were carried-out. Physical Impact The functional space utility of dwelling units and its satisfaction levels have been assessed. The average level of housing satisfaction is 59 per cent.

1) Housing Tenure One thousand eighty eight (1088) beneficiaries are identified with a bio-metric identification, but only 896 dwelling units are occupied by them. However, no title deeds or procession certificates are issued to the beneficiaries. While issuing legal status, 4006 urban poor will be given legal housing status. 2) Basic Infrastructure a) Water supply

there are two tube wells, 68 sumps in 34 blocks of 6000 litre capacity each, 02, 7.5 HP pumps. Also, water is drawn from public taps as well; there is no accountability for the quantity of water consumed by the each of the dwelling units. Residents also have drawn one municipal line to tap water, where water is supplied once in two days for a period of two hours. The residents purchase water from private sellers for Rs.2-5 per pot. b) Environment and Sanitation All households have access to individual bath and toilet facilities. Poor maintenance, broken pipes and chambers cause frequent blockage and back flow in soil pipes. Sunken slabs were not built in toilet spaces and waste water floods B. Economic impact Detailed Project Report has been prepared to impart training for 500 slum dwellers from Govt Tool Room and Training Centre and 500 slum dwellers at KEONICS. However, none of the training programmes were initiated. Many of the residents started informal activities within premises in ground floor. About 31% people have access to banks. Thirty Four per cent of the allotters have also earnings from rents and lease of dwelling units. Into living areas, which led to poor sanitation. Garbage cleared by BBMP twice in a week. Wastes are being dumped in open drains, set-back area and storm water drains as well. There is no provision of community dustbins in the locality. The slopes are inadequate to drain off storm water. Waste water stagnation and garbage disposal in open drains has been common phenomena: Social Impact

a) Access to Universal services of Health and Education 100% of the households have access to health and education facilities and Bruhat Bangalore Mahan agar Palike's (BBMP) health centre is

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located adjacent to the existing slum. Government primary school and high schools are located within two kilometers from the slum and 18% of total population of this slum are in the age group of 6-14 children and all these children are attending school. There have been no incidence of maternal deaths or infant deaths as all cases are institutional deliveries.

b) Social security/ safety in dwelling units and community, crime and community participation About three percent of the population are in the range of sixty years and above, but only one person has been receiving old age pension and no other security schemes were being availed by the local residents. 100% of the and within the community. There has been no incidence of crime among the community. About 73 percent were satisfied with community living, but 27 percent were dissatisfied and they attributed to linguistic/ cultural differences. majority of them are Tamil people and few of them are from Gulbarga origin.

VII. SWOT ANALYSIS:-

STRENGTHS:-

- [1] In-situ Rehabilitation project enabled them to provide pucca dwelling units to improve the quality of life and safe living in a neighborhood approach.
- [2] Adequate infrastructure like borewells, sumps and overhead tank for water supply.
- [3] Community hall (418 sqm), which provided in the layout is useful for community participation and Information Education and Communication (IEC) activities.

OPPORTUNITIES:-

- [1] Strengthening of welfare association and community based organization, which enable them to access to income generating activities and access to formal loan facilities
- [2] There is a scope for involving Welfare Association in maintaining the common areas, assets and structures.
- [3] Collection of user charges for water supply and electricity to be introduced
- [4] Optimum utilization of the community hall.

WEAKNESS:

- [1] Partial implementation of zoning and building regulations.
- [2] High dwelling unit density (516) above the average 344 dwelling units/ hectare approved in the first phase DPR. These energy intensive structures will add to stress on existing infrastructure like power and water supply.
- [3] Solid waste disposal in the side drains and open areas within the locality. THREATS [1] Sustainability [2] Attrition at upper level dwelling units

VIII. CONCLUSION;

The slum re-habitation project was initiated in the Pantharpalya Slum under JnNURM project. The in-situ rehabilitation, which was carried out in Pantharpalya Slum has contributed for improving the quality of housing. The project has benefitted largely to the though, urban poor certain dissatisfactions in terms of quality of construction, sustenance infrastructure and its maintenance including community involvement. The outcome of the impact study is that the project has yielded good result in

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benefitting the urban poor to improve their quality of life. The impact results have scope improve in rehabilitation projects.

REFERENCES

- 1. Shankar B., "Inclusive Urban Planning: Challenges and Strategies of Karnataka State", Poster Paper, IDES_CPS, Civil Engineering Series-Advances in Civil Engineering ACE, Ed., pp-11-15, 2011, New York.
- 2. Shankar B and Chidambaram Swamy," Urban Poverty Alleviation: Experiences of Community Development Initiatives in Karnataka", International Journal of Recent Trends in Engineering, Vol.1, No.6, Academy Publishers, Finland May 2009.
- Bangalore Master Plan-2015: Volume-I –Vision Document, Bangalore Development Authority, and Bangalore.
- 3. Laura Jaitman and Jose Brakarz, Evaluation of Slum Upgrading Programs: Literature Review and Methodological Approaches, Inter-American Development Bank, Nov-2013.
- 4. Restrapo, Paula, Moving in Selling Out: Outcomes of Slum Rehabilitation in Mumbai, International Conference on Applied Economics, ICOAE 2010.
- 5. R. C. Sudheesh, Sheltering Bangalore's Slum Dwellers: Issues and Intervention:: http://www.docin.com/p-554952306.html.
- 6. Michael Bamberger and Nobuko Fujita, "A Practical Handbook for

Designing Methodologically Sound Impact Evaluations Under Budget, Time and Data Constraints" 2nd Edn. Foundation for Advanced Studies on International Development.

- 7. Grant Thornton, Appraisal of JnNURM: Final Report, Vol. I, March-2011, India.
- 8. Impact Evaluation for Slum Upgrading Interventions, Doing Impact Evaluation World Bank Report-2006
- 9. Report of the Pronab Sen Committee on Slum Statistics (2010): Ministry of Housing and Urban Poverty Alleviation. Http://mhupa.gov.in/w_new/slum_report.pdf.