

Guidelines to Local Infrastructures Development of Bangmoung Subdistrict Administration Organization Takua Pa District Phangnaga Province

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Abstract

This research approached by the mixed methodology with objectives of 1) to study and analyze the problems of local infrastructural development in Bang Muang Sub-district Administrative Organization, Takua Pa District, Phang Nga 2) to propose local infrastructural development guidelines of Bang Muang Sub-district Administrative Organization on Takua Pa District, Phang Nga. The population on quantitative research represented the 7,904 local residents in the Bang Muang Sub-district Administrative Organization, Takua Pa District, Phang Nga with 380 participants in processed sample size. The 17 samples of the qualitative approach were conducted by non-probability sampling with purposive sampling, including quantitative data statistical analysis in terms of frequency, percentage, mean and standard deviation. The qualitative data analysis approached by the content analysis and proposed the findings by descriptive analysis. The findings unveiled that problems of local infrastructural development of Bang Muang Sub-district Administrative Organization of Takua Pa District, Phang Nga represented the moderate level with mean of 3.03 in the overview of all three aspects and conducted the mean of 3.20, 3.09 and 2.79 of waterworks, electricity and transportation in descending order. Development guidelines required in the areas of 1) The waterworks aspect required the improvement and maintenance in pipelines, enlarge water storage, notification for unavailability, providing sufficient water sources for in the drought season, requisition the monetary support from other agencies and permission for mountain waterworks. Provincial Waterworks Authority should expand service areas, groundwater, dams, overflowing water dams and water filtration system that contributed the cleaner water supply in the community. 2) The electrical illumination aspect should be expanded the service areas, extension the distance of low voltage cable poles, CCTV for security, conserving energy with LED lighting. 3) The Transportation aspect required the improvement and road construction and expanding traffic lanes of Petchakasem Road, damaged road repair with concrete or asphalt pavement and providing the parking on the main road.

Keywords: Local Development, Infrastructure, Bangmuang Sub-district Administration Organization

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I. INTRODUCTION

The community development in any society contributed to the prosperity in various areas of the improvement in better living in the community, the strengthened social institutions, cultural capital and the community.(Nitirochana, 2014). The sustainable community required the participatory development, self-government and public services to contribute the requirement of residents and strengthen residents in terms of learning and local administration for the prosperity.(Kerdpitak, Mekham&Girdwicha, 2019) Bang Muang communities formulated local developmental policies and guidelines in six terms of areas as follows; the quality of life and sanitation, public services and infrastructure, economic and tourism, natural resources and the environment, education, religion and culture, and politics, governance and administration. (Jaensson& Uiso 2015) But the analysis of the policy frameworks unveiled that the neglect of residents in bodily exercise and health care, damaged properties from disasters and youth problems from gaming, tobacco, alcohol, drugs and premature pregnancy. The road traffic increasing caused the more accidents and demand of routes, the unavailability of lighting in public areas, drainage tracks causing the obstruction, shallow canals and flooding, the insufficiency of water supply for consumption and agricultural usage during the dry season including the below standard of consumption water. (Gulsun,Yilmaz&Aslan 2015). The residents could not form a group to excellently perform community economic occupational activities, lack of occupational funds, the fallen price of agricultural products, in addition problems of waste management in the community, unawareness in conserving of natural resources and the environment including the inadequacy of teaching and learning media.

The introduction and background mentioned above, the researcher was interested to study the research of guidelines for local infrastructural development of the Bang Muang Sub-district

Administrative Organization Takua Pa District, Phang Nga with the following objectives.

II. RESEARCH OBJECTIVES

- a) To study and analyze problems of local infrastructural development of the Bang Muang Sub-district Administrative Organization Takua Pa District, Phang Nga.
- b) To propose guidelines for local infrastructural development of Bang Muang Sub-district Administrative Organization Takua Pa District, Phang Nga.

III. LITERATURE REVIEW

Problems in local infrastructural development of Bang Muang Sub-district Administrative Organization in Takua Pa District, Phang Nga were considered as a whole in three aspects of water supply, electricity and transportation.(Phaetrungsee, 2013)The local infrastructural development was considered in the moderate level on the public participation in terms of the participating assessment in infrastructural development[3], the participation on social and cultural activities of family members, the community commitments(Kraisakul& Kongrukkawin,2017)and residents' activities of in payable infrastructural work such as road and electricity.

Problems of local development of Bang Muang Sub-district Administrative Organization Takua Pa District, Phang Nga represented the construction project, expansion of water supply system to meet residents' requirement and consumption water (Yaemssamran, 2016).2) Without the waste water treatment system before discharging into canals. The electrical illumination aspect represented problems of local development of Bang Muang Sub-district Administrative Organization Takua Pa District, Phang Nga in terms of the equipment, technology and CCTV including the continuity of maintenance. (Rodjam, 2010; Kobuaklang, 2010).Public satisfaction consisted of

1) the public illumination of the Sub-district Administrative Organization in terms of maintenance and public lighting electricity services. 2) the expansion of transportation by expanding the road and safety of public roads (Yaemssamran, 2016). The collaboration among relevant agencies on supporting requirements in various matters and local participatory development with the commitment was required. (Rodjam, 2010; Yaemssamran, 2016).

The transportation aspect required the improvement in road that farmers travelled on the road for distribution of agricultural products and daily travel in term of the convenience, speed, safety in life and property of residents. (Kerdpitak, 2016; Guneri & Yildiz, 2019) Bang Muang Sub-district Administrative Organization should construct and repair roads and contribute facilities on the road travelling during festivals in addition the security of pedestrian roads with signals (Erkan & Erkan, 2015).

IV. METHODOLOGY

This research approached by the mixed methodology, the quantitative approach was conducted with the Thai national population and 380 sample who obtained 18 years aged residents in the registered service area of Bang Muang Sub-district Administrative Organization Takua Pa District, Phang Nga. The research instruments represented the questionnaire that consisted of opinions about the problems of local infrastructural development and their suggestions of the local infrastructural development. The instruments were constructed from literature reviews, theories and on-site studies. The qualitative research was conducted by interview for data collection. The in-depth interviews and structured interviews were required to collect data from key informants who were the community leaders in the Bang Muang Sub-district Administrative Organization Takua Pa District, Phang Nga such as the president of the sub-district administrative organization, village headmen, the

community developer and related parties. The interviewing was performed with 17 informants about the local infrastructural development guidelines of Bang Muang Sub-district Administrative Organization Takua Pa District, Phang Nga. Data analysis was processed in terms of frequency distribution; percentage, mean and standard deviation.

V. RESULTS

A. Problems in general of the local infrastructural development of Bang Muang Sub-district Administrative Organization of Takua Pa District, Phang Nga

The findings unveiled that problems of local infrastructural development of Bang Muang Sub-district Administrative Organization of Takua Pa District, Phang Nga represented the moderate level with mean of 3.03 in overview of all three aspects and conducted the mean of 3.20, 3.09 and 2.79 of waterworks, electricity and transportation in descending order.

1) The aspect of waterworks, problems of local infrastructural development of Bang Muang Sub-district Administrative Organization of Takua Pa District, Phang Nga in term of waterworks represented the moderate level with mean of 3.20 and the most value was unveiled in terms of waterworks construction and expansion to achieve residents' requirement, the lower value in term of consumption water and the smallest value in terms of water resource preservation, efficient elimination systems of waste water from households, agriculture and industrial sectors.

2) The electrical illumination aspect, problems of local development of Bang

Muang Sub-district Administrative Organization Takua Pa District, Phang Nga, in term of electrical illumination represented the moderate level with mean of 3.09 and the most value was unveiled in terms of tools, equipment, technology and recent CCTV, the lower value in terms of maintenance and

repairing the damage and the smallest value in terms of public relations and warning for illumination malfunction.

3) Transportation aspect, problems of local development of Bang Muang

Sub-district Administrative Organization Takua Pa District, Phang Nga in term of transportation represented the moderate level with mean of 2.79 and the most value was unveiled in terms of the expansion of construction project that achieved residents' requirement, the lower value in terms of the safety travelling on road and the smallest value in term of road maintenance.

B. Guidelines for local infrastructural development of the sub-district administrative Organization Bang Muang, Takua Pa District, Phang Nga.

1) The waterworks aspect unveiled the insufficient and discontinuous water supply for consumption especially in the dry season and turbid like mud on sometimes, flooding in rainy season including drilling service for groundwater. Problems could be rectified in the matter of the increasing of water demand and groundwater was rusty that caused unclean water to supply to households, as well as water from chicken farms flowing down the road and caused foul smell and the problem of sand sediment flow in the canal and flooding in area. The improvement and maintenance of waterworks system were required by expanding the size of the pipe, adding more water storage tanks or construction of a large water storage area of 10 x 10 x 3 meters and notifications to the public in case of unavailability, in addition, water information systems should be conducted to prepare the waterworks development in the service area, water availability in the dry season or budget requirement other agencies to solve the water shortage problem during the dry season. The mountain water supply for public was proposed to other agencies, including

provincial waterworks should expand the service area thoroughly surrounding all areas and jointly develop the provincial waterworks according to the needs of the people as well as providing water sources for consumption both in normal situations or the situation experiencing drought. The groundwater drilling and a dam should be provided to store water and solve the problems of the sediment flow that accumulated in the canals in addition, a water filtration system made the water supply used in the community cleaner and should consider the cost of water to help the people.

2) The illumination aspect, the electrical service area uncovered 19 households, some alley was not bright, damaged electrical equipment and illumination of the head of bridge of the village no.5 was not sufficient that caused frequent accidents. The increasing of electricity demand caused the drop of voltage, the more illumination to every alley and intersection, the road curve and expanding the low voltage area to serve the community demand. The Provincial Electricity Authority should expand the service area surrounding all areas and locate the distance of the lighting pole to be more, Providing CCTV for convenience in security and replacing the lighting bulbs to LED lamps for energy saving should be provided to the community. However, the necessity when installing, the maintenance and bill payment to the Provincial Electricity Authority were considered with the effects to other development budgets and suitable fees in terrible economy.

3) The transportation aspect, many roads in the village were too narrow and obstacle for driving especially waterlogging during the rainy season and dust in the dry season including the garbage and the plenty of dogs and cats on the street. Problems in the administration of Ban Nam Khem presented a contemporary problem that were resolved with relevant laws and regulations, a large budget requirement from the supreme government, some road surface should be improved and

developed by expanding traffic lanes, expanding Petchkasem Road into four lanes with more boundaries and expanding the Huarua-Pute road until completion, construction the TaisoiHua - Naipi road until completion (Bang Pu Tae) and adding road to the end of the alley. In addition, various damaged roads should be repaired and traffic lining as well as providing the concrete roads, asphaltic asphalt or asphalt roads to the village area, such as the roads in routes of BokYud, Bangpling, Bangnow, Soitaruang with the driving slower obstacles on the village road and Bangsak beach including the regulation in parking on the main road.

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