

The Impact of Industrialization to Urban Environment Infrastructure in Cebu City Philippines

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Abstract - Cebu is a province in the Philippines consisting of the Cebu Island and many other surrounding islands. Through the years, Cebu became more and more industrialized. The rise of big companies, the trend of technology, and the innovation by the people make very progressive. The process by which major towns and trading centers are formed to become larger, due to people moving into these towns for work and living. Urbanization is predominantly a cause of the physical growth of a town or any urban areas. Aspects that contribute to urbanization are mainly the industrialization, modernization, and rationalization that results from sociological processes.

Key Words: Environment, Industrialization, Infrastructure, Impact to people

1. INTRODUCTION

Industrialization is a change in the social and economic activities of a people, which involves a shift to manufacturing, innovation and the replacement of farming and minor economic activities. Cebu's industrial sector is growing at nearly twice pace of its service sector, they will have a brand new world class airport, bus Rapid transit system, the 3rd toll ways bridges, construction and infrastructure of new schools building and malls that lead the rate of the city fully industrialized region in the Philippines. It will be necessary for the government to improve the road and bridge networks along with the seaports and export processing zones in the region. Traffic in Cebu City Philippines has gone from bad to worst in the past few years, making it critical for the government to find ways in managing it to prevent any adverse effects on its growth.

1.1

As we identify the importance of industrial development has big impact to the growth of industries has a resulted in large scale production of goods which are available to the consumer at much cheaper rates. Industrialization has resulted in a considerable rise in the standard of living of the people, the customer get wide variety of choices, there are means to control and check the colossal wastage of human energy that can be used otherwise. Industrialization creates new jobs opportunities, leading to the removal of poverty to a great extent. Industrialization has also resulted in the development of new modes of transport making quick export and import possible. But in incoming fourth industrial revolution is the current and developing environment in which disruptive technologies and trends such as internet of things, robotics, and virtual reality and artificial are changing the way we live and work.

1.2

Impact to Industrial to the Environment

One of the highlights projects manufacturing in the Cebu City are the Cebu Cordova Link Expressway that expected to finish in next two years, the project proponents would improve economic investment and generate jobs in Cordova town and improve productivity on the island. And the huge impacts to the environment need to determine the important species of plants and animals that will be disturbed in constructing the bridge project and they also look into possible air and marine water pollutants, which may be produced during the construction activities up to its operation stage. And they still scoping of potential environmental effects of the project will also include economic, housing and industry in the area.

2. Major Urban Centers are polluted

The problem of solid waste disposal is most serious in urban centers, particularly Cebu City, because of high population density, high consumption rates, and the concentration of packaged goods, and packaging materials, some of which are toxic and non-biodegradable. Although water is still abundant in certain areas, the country faces the threat of emerging water scarcity. Lack of urban planning, indiscriminate urban development, lack of investment in water, problems of water resource management, and the impact of climate change threaten water security and sustainability. Deforestation and lack of effective management of

forest and freshwater ecosystems have led to the further deterioration of watersheds, limiting aquifer recharge and increases water runoff and soil erosion.

Table -1

Pollution in Cebu , Philippines	
Air Pollution	77.78 High
Drinking Water Pollution and Inaccessibility	51.54 Moderate
Dissatisfaction with Garbage Disposal	75.00 High
Dirty and Untidy	73.83 High
Noise and Light Pollution	64.68 High
Waste Pollution	80.56 Very High
Dissatisfaction to Spend Time in the City	74.63 High
Dissatisfaction with Green and Parks in the City	69.53 High

3. CONCLUSIONS

As we find some information for the sustainable in Urban Development in Cebu City that there are certain areas in Cebu City where there economic growth are highly industrialized to work out in industrial , manufacturing , Export processing , high density residential areas , and commercial which located at Danao City , Mandaue City , Cebu City , Lapu-lapu City and Naga City. The other city work for the entertainment , commercial , low/middle residential areas , cultural historic located at Liloan and for the tourism pot like major park , preservation zones , tourist resort , residential areas located at Cordova , Talisay City , San Fernando and Minglanilla.

The impact of Industrialization to Urbanization features Cebu City after thirty five years were projected in terms of population, economic activities, employments, and urban land availability.

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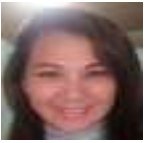
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