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A drastic increase in environmental pollution across the globe has led to various research and development works in an effort to contain this menace and a relatively new discipline called environmental engineering has emerged which is providing excellent career opportunities. Environmental engineers apply combined methods of science and engineering to improve the environment so that people have access to healthy water, air and land suitable for human existence. Moreover, opportunities in environmental engineering have increased in the last couple of decades and the professionals are recruited by companies working in chemical, geological, petroleum and mining sectors. Environmental engineers specializing in basic sciences, ecology, economics, social sciences, and radio-logical science as well as civil, mechanical and electrical engineers have attractive career options. A qualified professional working for an environmental engineering firm is expected to design, construct and maintain waste management systems so that urban and rural areas are kept healthy. Job of environmental engineers in India is expected to widen up as owing to tremendous economic development the country is facing a high degree of environmental pollution and environmental engineers will have to check it.

I have completed my undergraduate program from Jadavpur University in Civil Engineering with CGPA 7.1 out of 10. Though I chose Soil Mechanics as my major subject in 4th year, I became deeply concerned about the waste management and recycling process. While I was studying soil mechanics, I understood that plastic, metal, glass, e- wastes can degrade soil quality and interestingly those have deleterious effects on the environment. After that an interest was grown in my mind to work on those materials in future and thus, I became eager enough to do my master degree in Environmental Engineering.

My undergraduate education at Jadavpur University has provided me with a strong and comprehensive background in environmental management. The curriculum included all the basic courses such as Water Supply Engineering, Waste Water Engineering, Environmental Pollution and Control, Engineering Geology including two laboratory programs which provided me with a strong foundation in the theoretical and practical concepts of Environmental Engineering.

I believe the world's most crucial problems are those involved with the environment. Environmental infrastructures are not well established due to deficiency in professional environmentalists and related regulations, and as a result of inefficient management and policies we have faced many problems, that its detrimental effects are not only limited on ecosystems and our environment; there is also almost irremediable social-mental and economical damages. Due to non-biodegradable materials like glass metal and especially plastic, condition of soil and environmental is decreasing day by day.

My basic intention is to minimize the effect of those kinds of non-biodegradable materials in the environment, especially plastic by applying a recycling process. Plastic recycling is a process where waste plastic is recovered and turned into a new product to use again. I do not think waste plastic is used properly. I want to use waste plastic in the construction process. I think Plastic can be recycled into brick like materials to construct buildings. I hope to use plastic in road construction also. By using waste plastic in construction, we can save the environment easily. For example, waste plastic may turn into plastic chips which can be mixed with stone chips to reduce the amount of stone and better stability. This process may reduce the construction cost. This may become possible but to do so I need to acquire more in-depth knowledge in Environmental Engineering. In the journey of my undergraduate program in India, I realized that there is much scope as an Environmental Engineer in India. And to achieve my goal and to achieve success I need a reputed institution like IIT KHARAGPUR where I can get a great opportunity to develop myself to work for the betterment of Indian environment.

During my graduate program I would like to search for various possibilities relating to plastic recycling and would try to relate it with the construction process. I feel that with its comprehensive facilities and competent faculty doing quality research work in the field of Environmental Engineering will be the ideal place for me to pursue graduate studies. The working atmosphere of a vigorously active department will be helpful in motivating me towards excellence.

In short, I would like to complete my master's program in Environmental Engineering so that I can contribute something for the betterment of our environment.

I, therefore, look forward to joining the Civil Engineering department as a graduate student.