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A CASE STUDY OF PROPOSED WORLD'S BIGGEST DAM IN INDIA: A REVIEW

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Abstract – *Today in the era of higher energy consumption it is very important that a nation should make different provisions for obtaining the large amount of energy without entraining the well being of the environment. In the recent time there are no. of countries which convert the hydro energy into electrical energy and mechanical energy. In this project the main concern is given on the implementation of the 3-Gorges dam in India which will benefits the electricity production in India and it will be also beneficial for the economical growth of the country. This implication of the biggest dam not only provides the electricity but also provide the additional benefits for the agricultural purpose and other various purpose. Its implication also not distracts the path of the travelling of ships because it will be made with advantageous features from the perspective of transportation of the cargo ships from one destination to the another. This dam also consists of a bridge for the transportation of vehicles from one side of the river to another side of the river. Its capacity of the electricity production is also very high in comparison to the today's electricity production plants. Its implementation will make the nation self-strengthen for its economic growth, due to the independency on the electricity growth and consumption of hydro energy. Thus, the implication of this will be beneficial for the nation with various perspective.*

1. INTROUCTION

This study basically deals with the implementation of the worlds biggest dam in India. In this study it is found that Dibrugarh is the best zone which is found in India and also that location is less populated in comparison to the other location. Its allocation is better found after Dibrugarh because near the Radha Krishna Mandir of Dibrugarh the river zone is more suitable for the implantation of the dam and also that location is observed as the initiation of the whole river, so in case the dam is made there it must give additional benefits to the Bogibeel Bridge made near Dibrugarh. It is also seen that the Brahmaputra river is very wide and contains high discharge carry capacity. This dam is made in such a way that through the stored water we can generate electricity in a very large amount, which makes the nation independent from the other countries in case of electricity demands. The 3-Gorges dam of China has the capability of generating approx. 20,000-Megawatt electricity, which makes the China independent from the other countries for the electricity. This proposed dam also contain a bridge over it which makes the both sides habitat connected to each other. This proposed dam also has cargo lifting system which enables the safe passing of the cargo's loaded with the goods. Its sluice path way is different from the other dam because it contains horse type shoe for preventing the deterioration of soil of the down side dam i.e. at the outer portion of the dam.

Fig -1: 3-Gorges dam at Yangtze River

2. LITERATURE REVIEW

There are various studies which is done in the area of dams, these studies concluded the different facts which will be very beneficial during the implementation of world's biggest dam in India.

Babar, H. T. and G. B. Raje concluded the fact that the implementation of dams will increases the productivity due to the fertilization of soil by the settlement of the soils of different locations and also a large variety of habitats are grown in the dam occupied region. It also enables the use of water for different required purpose, it may be according to the condition of the location.

C.J. Wijesundara and N.D.K. Dayawansa comprises the fact that the storage of large amount of water in the reservoirs enables the matter of the fact that the landscape of that area changes after some years it may be a long-term process, but those places may be the good place for some new species, which can grow and reproduce themselves easily and may survive in that specific environment.

3. METHODOLOGY

For the purpose of the making this dam is that for the generation of the high rate of electricity in India and its water also used in the irrigation purpose.

In this dam there are some special features. The features of this dam are that, in this dam there are two emergency zone is built for the purpose, whenever the dam is break or any type of defect then its water to be collect in this emergency zone due to this water is not waste and it can be reuse for any purpose.

Its foundation is made for the special technique. The technique of foundation of this dam is that its foundation is similar the pile foundation but modification of this foundation is that its pilling is to be connected like a stem of tree. The pipe is inserted in the ground and cement past is inserted in the drilled pipe this technique also known as grouting.

4. FEASIBLE RIVER

The Feasible River to situate this dam are Brahmaputra river in the location of Dibrugarh, Assam, India. For the purpose of chose of this river are that, its broad coverage on that particular to fulfil the requirement.

5. FEASIBLE ZONES IN INDIA

The feasible zone in India are the flowing of the Brahmaputra river at Dibrugarh, Assam, India Because of availability of large amount of water and location for situate this dam. It became a large Dam in India in Future and generate a high rate of electricity all over the India.

6. MILESTONES IN ITS APPLICATION

The milestone in its application is as follows:

- The first milestones in its application are environmental condition.
- The political parties also involve in this dam preparation.

- The milestones in its application are, the particular zone's people.
- Availability of water is also the milestone in its application.
- Availability of Large location.

Fig -3: Upward flow of water

7. FUTURE SCOPE

The future Scope of this Dam are as follows:

- This Dam produce high rate of electricity all over the India.
- Dam's water can be used for the irrigation purpose.
- High rate of water treatment plant can be situated for the purpose of supply high quality pure water all over the India.
- The Emergency zone helps to collect the dam water.
- Its water can also be used for fishing.

8. CONCLUSIONS

After discussing all the above point, we come to conclusion that it can be easily construct at Dibrugarh, Assam, India at Brahmaputra River. That particular location produces high rate of electricity all over the India. Its water can be using for various purposes such that fishing, irrigation and power generation.

It is a first Dam which Produce high rate of power generation all over the India. The world largest Dam are 3 Gorges Dam which is situated in China, so similar type of dam can be construct in Dibrugarh, Assam, India which Produce High rate of electricity all over the India, so it is called as Return Of 3 Gorges Dam in India.

Fig -3: Loading of Cargo Ships for lifting

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