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GOVERNMENT OF NAGALAND

**QUICK EVALUATION REPORT
ON
THE DOYANG HYDRO ELECTRIC PROJECT IN WOKHA
DISTRICT**

**DIRECTORATE OF EVALUATION
KOHIMA**

P R E F A C E

As desired by Hon' ble Minister for Planning & Co-ordination Department this Quick Evaluation Study on Doyang Hydro Electric Project in Wokha Nagaland was carried out by Directorate of Evaluation in 1993. After detailed study of the project, the Evaluation Department offered constructive suggestions for effective and efficient implementation of the project. It is the hope that the suggestions and findings given in this quick evaluation study will be useful for the implementing agencies as well as those who are directly and indirectly connected with this important project.

The Department gratefully acknowledges the cooperation and assistance extended by the officials of the NEEPCO and the Power Department, Government of Nagaland.

Mr., N. Zealiang, Joint Director of Evaluation was in over-all charge for the conduct of this study and the report was drafted by him. The valuable service rendered by him deserved much appreciation. I am thankful to the supporting staff for their useful contribution in completing this report within a very short period of time.

Dated, Kohima,
The 5th September, 1993

(L. COLNEY)
Addl. Chief Secretary & Ex-officio
Director, Evaluation
Nagaland: Kohima

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CHAPTER-1

INTRODUCTION

General Background;

1.1 The Doyang Hydro Electric Project was located in Wokha District of Nagaland . It is situated at a distance of 30 Kms from the District Headquarter, Wokha and 75 Kms from Furkating which is the nearest railway head. The catchments area of the project is 606 sq. Kms, and the main source of water for the project is the river Doyang and its tributary Chubi. This project was investigated by the Government of Nagaland and the project report was prepared in 1980 with consultancy assistance provided by the Central Electricity Authority/ Central Water Commission. The project envisaged an installation of 3 units of 35 MV each (This was however revised to 3 units of 25 MV each) The project was sanctioned by the Planning Commission in 1983 for an estimated cost of Rs.96.81 cores. The project was however handed over to the North Eastern Electric Power Cooperation in 1983 for construction.

Need of the study.

1.2. As per the original project report the 1st unit of the project is supposed to be commission in Dec./91, the 2nd unit in march 1992 and the 3rd in June 1992. However, till now the project could not mobilized properly nor chalked out realistic program to complete the project. The Hon,ble Minister for Planning and coordination has therefore consider it necessary to make an evolution study of the project so that remedial measures could be taken for the expeditious progress of the project. Hence, the need of the study.

Objection of the Study:-.

- 1.3. While evaluating the project, the main focus of enquiry are as under;-
- a. The Physical progress made so far.
 - b. The progress made in land acquisition.
 - c. Year wise finical target and achievements.
 - d. The problem and weak-spot if any and
 - e. Miscellaneous inter-related issue.

Methodology.

1.4. Broadly speaking the methodology followed in this study includes personal contact, interviews and discussion with concerned officials and other knowledgeable persons. The collection of primary data was made through field study by using a short questionnaire prepared for the purpose.

Limitations:

1.5. Since the Department was directed to complete the report within 20 days time, it was not practically possible to make an in-depth study of the project. Some important data not readily available could not be presented in the report as the same will require time for compilation. Hence many important data necessary for a realistic assessment of the progress could not be presented in the report.

Chapter II PRESENT STATUS OF THE PROJECT.

1. Land Acquisition :

2.1. the total need of land for the construction of Doyang Hydel Project is under.

**TABLE .1
REQUIREMENT OF LAND FOR THE PROJECT**

SL. NO.	PARTICULARS	AREA IN ACRES.
1.	2	3
1.	Project construction (colony. Dam, Spillway Power House Switchyard, etc.)	154
2.	Reservoir submergence area:-	
a.	Cultivated Land	712
b.	Jhum Land	4337
c.	Wood Land	353
	TOTAL:-	5578

(Source :- project report of sept.87)

- 2.2 Out of a total area of 8,418,58 acres proposed to be acquired for the project, all the required area have already been acquired. No Additional area is proposed now for acquisition,
- 2.3 The financial involvement for land acquisition up to the date of visit is a tabular form.

TABLE: NO. II.

FINANCIAL INVOLVEMENT ON LAND COMPENSATION

SI NO.	ITEMS	AMOUNT
1.	2	3
1.	Original estimated cost	5.65 cores
2.	Amount already spent on land compensation	25.98 cores
3.	Taxed per acres :-	4,500.00
1	Jhum land	
II	Plain developed land	6,000.00
III	Developed wet cultivation land	12,000.00
IV.	Orchard	As per Govt. of Nagaland rate.
4	Area already acquired	3409.14 Has acres

(Source :- Official record of NEEPCO)

2.4 Land compensation assessment survey was made by the Government of Nagaland under an ADC. It is gathered that under the advise of some leaders the land owners of the area proposed to be acquired for the project has started on a large scale clearing and developing their respective land including plantation of orchards. The simple reason is to get higher rates of compensation. To cite an example, the moment the mango tree are planted the possible numbers of fruit that can be bear in a year per tree its approximate income per year, the life span of mango trees that he is having etc. are calculated along with the land compensation assessment. Thus the land compensation assessment submitted by the ACD was exorbitantly high.

2.5 The Government of Nagaland after holding series of discussion with the land owners for review of land compensation bill could come to a final settlement only in latter part of 1992. The actual expenditure on land compensation comes to Rs.25.98 cores as against the original estimated value of Rs.5.65 cores. The delay in land compensation survey (under the Addl. Deputy Commissioner Wokha) by the Government of Nagaland is the main reason for increased payment on land compensation and the delay in the completion of the project in time.

2. civil works;

2.6 The NEEPCO has claimed that about 20% of the civil works has been completed and an amount of Rs.94.23 cores already spent. An additional amount required for completion of the remaining civil works worked out of Rs.88.16 cores. The NEEPCO proposed to complete the civil works worked out Rs.88.16 cores. The NEEPCO proposed to complete the civil works by March, 1996,

2.7 On the date of visit by the evaluation team, It was found that M/S Common India Limited who awarded the work for construction of diversion tunnel in

1989 has recently started the works by deployment of men and machineries. On personal inquiry through some knowledgeable person working in the project it is gathered that another 2 years may be required to complete the diversion tunnel if has to see on ground reality.

Another major civil works is the construction of power house here too, excepting the exaction work no other works worth mentioning appears to have being done.

- 2.8. A major civil work on Pock-Fill Dam awarded to M/S Hindustan Construction Co.Ltd. in june 1989 is also yet to start the work. Similarly, other major civil works such as approach channel spill way etc. are yet to start the works. The works on spill way and water conductor system awarded to M/S Gammon India Limited in December 1992 is yet to initiate any action till the time of visit by the evaluation team. Thus on the ground not even 15% of the Civil works appears to have been completed so far.

2. Electrical Works.

- 2.9. The NEEPCO has claimed that 90% of infrastructural electrical works including the Power house has been completed by spending an amount of Rs-5.25 cores as per the NEEPCO another Rs.90.00 cores will be required to complete the remaining electrical works. The NEEPCO proposed to complete the electrical works by March 1996.

- 2.8 On the date of visit by the valuation team, it was found that excepting the placement of order for supply of Power House Machineries with M/S B.H.B.L. on 1-9-88 for 3 units of 25Mw T.C. acts along with accessories no other works worth mentioning has been started on electrical works. The delay in electrical works is mainly due to the delay in acquisition of land and Non-completion of Civil works.

3. Other Works

- 2.11.The project report on action plan for development of catchments area Environment & Ecology etc. has been submitted to the Minister of Environment & Forest and is awaiting the approve of the same.

4. Financial.

- 2.12 The estimation cost of the project as prepared by the Government of Nagaland with the consultancy assistance provided by the CEA/CWC. and 1980 is at Rs.96.81 cores. This estimated cost was revised to Rs.166.65 cores in July 1989. At the present rate of progress the estimated cost is likely to be revised at least once again.

2.13 As against the above estimated cost of the project, the year wise financial budget proposed and actual allotment during the last 5 year period is as under.

**TABLE NO. 111.
DATA ON FINANCIAL POSITION.**

SL.NO	Years	Budget proposed	Budget approved actual expenditure.
1	2	3	4
1	1989-90	25.00	14.20
2	1990-91	34.00	15.02
3	1991-92	33.75	19.06
4	1992-93	60.00	17.00
5	1993-94	60.00	86.16
	Total	212.75	101.44

(Source: - NEPCO Official Records)

2.14. The above expenditure excludes expenditure on land compensation. Perhaps the less allotment of fund over the budget proposed is due to non-allotment of land, because till land problem is finalized the project works could not commence. However, now that 9409.14 Hactares of land has already been acquired by paying land compensation amounting to Rs.25.93 cores, fund constraints should not be a hindrance to the progress of the project.

6 COMMISSING OF THE PROJECT:

2.15 The program for commissioning of the 3 units of 25 MV each of the project is as follows:-

**TABLE NO.IV
DATE OF COMMISSIONING:**

SI NO	Unit	Originally Proposed Date of Commissioning	Likely Date of Commissioning
1	2	3	4
1	Unit-I	Dec.1991	March 96
2	Unit-II	March 92	June 96
3	Unit-III	June 92	September. 96

(Source: - Field Investigation)

CHAPTER – III

SUGGESTION :

3.1 To overcome practical difficulties and for the smooth and effective working of the project the following measures are suggested:-

Road Communication :-

3.2. Road communication from Doyang to Farkating, the rail head is in very bad shape. The improvement and effective maintenance of this 75 Kms is very important since transport of construction materials and equipments will have to be made through this road. Unless stop are taken early transportation will be greatly disturbed and the progress of work badly effected. The Government work including normal repairs and maintenance in the Farkating-Doyang road at the earliest.

Security:-

3.3 The importance of security of the staff, the project and maintenance of law and order in the project area need no emphasis. It is reported that the Government of Nagaland has agreed to deploy one company strength of NAP over 2 years ago but yet to implement it. Through the NEEPCO has also initiated for induction o fCISF the Government of NAGaland should see that all possible security measure and law and order is adequately maintain in the project area.

Fund :-

3.4 A scrutiny of the past record showed that about 50% of the budget proposed are actually allotted presumably due to non-finalization of land acquisition. Now that the full requirement of land for the project measuring 3400. 14 Hectares has already being acquired by paying land compensation amounting to Rs 25.93 corers, fund constraint should not be a hindrance to the progress of the project. It is therefore, suggested that the full requirement of fund is made available to the project its early completion.

AWARD OF WORKS

3.5 It is learned that some firm have refused to proceed with their work at the old rates, term and condition as agreed upon stating that the contract as originally has become in operative as the site could not be handed over to them for few years. The necessary discussion/ negotiation or called fresh tender for the award of work should be done at the earliest so that works could be started immediately.