

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

(A Govt. Of India Enterprises)

EXECUTIVE DIRECTOR(TECH)/ HEAD OF PLANT DOYANG HYDRO POWER STATION

DOYANG, NAGALAND

No. NEEPCO/DHPS/HoP/2025-26/T-02/

38

Dtd. 30.04.2025

To,

The Advisor(s),

Ministry of Environment, Forest & Climate Change, North Eastern Regional Office, Law-U-Sib, Lumbatngen, Shillong-793021.

Sub: Six Monthly Environmental Compliance Report of Doyang Hydro Power Station, NEEPCO Ltd., for the period ending March'2025.

Dear Sir,

Enclosed please find herewith the Six Monthly Environmental Compliance Report with regard to Doyang Hydro Power Station, NEEPCO Ltd., Doyang for the period ending March'2025 which is self-explanatory for your further kind needful please.

Thanking you.

Yours faithfully

Executive Director(Tech)/ Head of Plant

DHPS, NEEPCO Ltd. Dated: 30.04.2025

Memo No. NEEPCO/DHPS/HoP/2025-26/T-02/ Copy to:

- 1. The Chief General Manager (Tech), Env. & RR Wing, NEEPCO Ltd., Shillong for favour of kind information please.
- 2. The Dy. General Manager (Tech), Dam & Spillway Division, DHPS, Doyang, NEEPCO Ltd., for information.

Executive Director(Tech)/ Head of Plant DHPS, NEEPCO Ltd.

SALIENT FEATURES OF DOYANG HYDRO POWER STATION, NEEPCO LTD. NAGALAND

1. Location-

a. District:

Wokha

b. State:

Nagaland

c. Longitude:

94°15′58″

d. Latitude:

26°13'47"

2. Source of Supply-

a. Name of tributary:

Chubi

b. Name of main river:

Doyang

3. Hydrology-

a. Catchment area:

2606 sq.km

b. Design flood:

5977 cumecs.

c. Maximum probable flood:

5977 cumecs.

d. Routed discharge:

4283 cumecs.

4. Doyang reservoir-

a. Maximum annual runoff:

3095.2 M.cum

b. Minimum annual runoff:

1265.3 M.cum

c. Full reservoir level(FRL)

EL-333.00 M

d. Maximum water level (MWL)

El. -336.00 M

e. Minimum draw down level:

EL-306.00 M

f. Gross storage at FRL:

535.00 Mcum.

g. Dead storage at MDDL:

165.00 Mcum.

h. Effective storage:

370.00 Mcum.

5. Dam-

a. Type of Dam:

Rockfill with impervious core

b. Length of dam:

525.00 M

c. Height of Dam above deepest bed:

92.00 M

d. Width of Dam at base

445.00 M

6. Spillway

a. Length of spillway:

71.0 M

b. Gates:

Radial gates: 4 nos. of 12m x 12m dimension

c. Design flood:

5977.00 cumecs

d. Crest elevation:

EL. 321.00 M

7. Water conductor system-

a. Number:

1 with trifurcation

b. Diameter:

6.00 M

c. Length:

427.26 M

8. DIVERSION TUNNEL-

a. Length of Diversion Tunnel: 633 Mb. Dia. of Diversion Tunnel: 12 M

9. Power House-

a. Maximum T.W.L: EL-261.20 M b. Minimum T.W.L: EL-252.50 M c. Maximum head: 83.50 M d. Minimum head: 43.50 M e. Design head: 67.00 M f. Installed capacity: 3 x 25 MW Firm power potential: g. 23.0 MW (Each unit)

h. Type: Surface
i. Length: 69.50 M

j. Breadth: 28.25 Mk. Height: 17.5 M above service bay level

I. Runner removal gallery: EL 245.65 M
m. Turbine Floor: EL 252.10 M
n. Generator Floor: EL 255.30 M
o. Control Room Floor: EL 259.30 M

p. Service Bay floor: EL 264.50 Mq. Capacity of EOT Crane: 100 MT/25 MT

10. Turbine-

a. Type: Vertical Francis b. Maximum head: 80.50 M Minimum head: 49.00 M d. Rated/Designed Head: 67.00 M e. Normal speed: 250 rpm f. Runaway Speed: 510 rpm Diameter of runner: 2.35 M h. Efficiency at 100% Rated load: 91.40% Max output at designed Head: 26 MW

Discharge at designed head, rated output: 37.67 Cumec

11. Penstock valve-

a. Type: Lattice type butterfly valveb. Diameter: 2.90 Mc. Number: 3 (Three)

12. Main Inlet valve-

a. Type: Butterfly
b. Diameter: 2900 mm
c. Opening time: 60 sec + 15
d. Closing time: 60 sec + 15
e. Allowable leakage: 5 lit/min

13. Generators-

a. Type:

b. Rated Power:

c. Current:

d. Power Factor:

e. Speed:

f. Efficiency at 100% Load:

Salient pole, 3 phase, synchronous

25 MW

1458 A

0.9

250 rpm

96.71%

14. Step-up Transformer-

a. Nos. and voltage ratio:

b. Capacity:

3 Nos, 11 KV/132 KV

28.5 MVA

15. Evacuation System-

a. Number of feeders:

4(four) - 132 KV

i. Dimapur I

ii. Dimapur II

iii. Mokukchung

iv. Kohima

REPORT ON MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFE GUARD OF DOYANG HYDRO POWER STATION (75 MW), NAGALAND For the Period of 1st October'2024 to 31st March'2025

Monitoring Report (Part-I) (Data sheet)

1	Project Type:River-Valley/Mining/ Industry/Thermal/Nuclear/Other (Specify)	River Valley					
2	Name of the Project	Doyang H.E.Project					
3	Clearance letter (s) OM No. and Date	i). Letter No. 14/68/80-ENV Dated 28.06.1982 Government of India Department of Environment. li). No. 14-68/80-IA.I Dtd. 14.09.2000 Govt of India, Ministry of Environment and Forest.					
4	Locations:						
	a) District	Wokha					
	b) State	Nagaland					
	c) Latitudes/Longitudes	26°13′47″/94°15′58″					
5	Address of Correspondence:						
3 4 6 5 A 6 Si 6 b) 7 Br 6 Fc a)	a) Address of Concerned Project Chief Engineer. (With Pin Code & Telephone/Telex/Fax Nos.)	Head of Plant, Doyang Hydro Power Station NEEPCO Ltd., Doyang, Wokha, Nagaland, Pin code: 797100, E-mail: dhep_doyang@rediffmail.com					
	b) Address of Executive Project Engineer/Manager (With pin Code & Telephone/Telex/Fax Nos.)	do —					
	Salient Features:						
	a) Of the Project	As enclosed in Annexure-I					
I	b) Of the Environmental Management Plans						
1	Break-up of the Project Area (Forest & Non- Forest):						
a	a) Submergence area(Forest & Non-Forest)						
b	o) Others	2981 acres					

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8	Break-up of the Project affected population with enumeration of those losing houses/dwelling units only, agricultural land only, both dwelling units and agricultural land and land less labours/artisans:	
	Both land and house	Nil
	Only Home	Nil
	Only Land	3401.70 Ha. for Project Construction, 149.70 Ha. for Quarry (After commissioning of the Project, the land has been handed over to the Govt. of Nagaland)
	Other immovable Properties	NIL
	Total	
	a) SC, ST/Adivasis	NIL.
	b) Others	NIL
9	Financial Details	·
	a) Project cost as originally planned and subsequent revised estimates and the years of price reference.	Originally Rs. 128.61 Cr. at 1982 PL, Further revised to Rs. 758.70 Cr. as on Feb'2000 PL.
	b) Allocation made for Environmental Management Plans with item wise and years wise break up.	Allocation of Rs. 3.25 Cr. for CAT Plan
	c) Benefit cost ratio/internal rate of return and the year of assessment	
	d) Whether (c) includes the cost of Environmental Management as shown in (b) above.	Yes
	e) Actual Expenditure incurred on the Project so far.	Rs. 758.70 Cr.
	f) Actuar expenditure incurred on the Environ- mental Management plans so far.	Rs. 3.25 Cr. for CAT Plan
10	Forest land Requirement:	
	a) The status approval for a diversion of	
	forest land for non forestry use	
	b) The status of compensatory afforestation,if any	NIL.
	c) The status of clear felling	NIL
	d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.	Department of Forest, Ecology, Environment & Wild life, Govt. of Nagaland, Kohima is responsible for implementation of the Scheme.

11	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any, with quantitative information.	NIL.			
12	Status of Construction:				
	a) Date of commencement (actual and/or planned)	Project started in 1985 and commissioned			
	b) Date of completion (actual and/or planned)	on June'2000			

13	Reasons for the delay if the project is yet to start.	NA
14	Date of Site Visits:	NA NA
	a) The dates on which the project was monitored by the regional office on previous occasions, if any.	
	b) Date of site visit for this monitoring report	NA
15	Details of correspondence with Project authorities for obtaining action plans, information & status of compliance to safeguards.	NA ,

ENVIRONMENTAL CLEARANCE LETTER NO. 14/68/80-ENV Dated 28.06.1982 DOYANG HYDRO POWER STATION (75 MW), NAGALAND

Part -B: General conditions

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	project cost to prevent soil erosion.		to the labour force, free of cost, during the construction period so that indiscriminate destruction of forests in the neighbour can be prevented;		Submergence should be calculated upto 4.00 m below FRL and felling of trees restricted upto this level only;	10		ed to	Stipulations	
complied.		Complied. Project Completed.		Complied.		Nagaland(detailed at Annexure-II). Complied.	Department of Forest, Ecology, Environment & Wild life, Govt. of	Fund released and executed through	Status of compliance	

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COMPENSATORY AFFORESTATION TREATMENT (CAT) PLAN

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a Honorarium for 20 women extension workers	Extension services	c POL & Maintenance for 3 years for (a) & (b)	3 Jeeps for extension works in 5 districts	a 1 Lorry for carrying seedlings	Transportation			resue culture lab including running cost for 3 years		Engineering measures (300 nos. of check dam and Gully Plugging)	a Biological/afforestation including raising of nurseries in 20 villages.	Works in agriculture (jhum) & community forest lands	Micro Plan preparation in 20 Villages	ENVIRONMENTAL STIPULATIONS
Contract wages for 20 women extension workers @ Rs. 2500/Month.						Maintenance and running cost, including lab to land programmes.	Glassware.	Shade/Green House.	Upgradation of existing TCL of the forest deptt. Water supply facility.	d Check dams/gully plugging (300 nos).	Nurseries in 20 villages for raising 30 lakhs seedlings @1 lakh seedling per year. Forestry activities only for 1st year creation of plantation including gap plantation. Aided natural regeneration.	· lands		ACTION PLAN
Fund released and executed through Department of Forest, Ecology, Environment & Wild life, Govt. of Nagaland.			of Nagaland.	Fund released and executed through Department of Forest. Ecology. Environment & Wild life. Gove				o regarde.	Fund released and executed through Department of Forest, Ecology, Environment & Wild life, Govt.	Fund released and executed through Department of Forest, Ecology, Environment & Wild life, Govt. of Nagaland.	Fund released and executed through Department of Forest, Ecology, Environment & Wild life, Govt. of Nagaland.		Fund released and executed through Department of Forest, Ecology, Environment & Wild life, Govt. of Nagaland.	STATUS OF COMPLIANCE

Dam & Spillman Wagalar Dam & Spillman Washa, Nagalar Nagalar & Spillman Washa, Nagalar & Spillman Washa, Nagalar & Spillman & Spil

Projec 8 includ compt	7 Devel	a Traini	6 Training	b Multi
Project initiation, Monitoring & Evaluation, including cost of hiring of one vehicle, and computer & Accessories.	Development of Micro- Enterprises	a Training 20 modules in 20 villages	ing	b Multi-media tools and accessories
Hiring of one vehicle @ Rs. 15000 per month. Computer & Accessories, including minimum furniture. Wages for one contract technical staff @ Rs. 4000.00. Cost of a still camera. Contingency.	Development of micro-enterprises for economic opportunities through a system of revolving fund in 20 villages @ Rs. 3.50.			Multi media tools for awareness creation and extension through mass communication media.
Fund released and executed through Department of Forest, Ecology, Environment & Wild life, Govt. of Nagaland.	Fund released and executed through Department of Forest, Ecology, Environment & Wild life, Govt. of Nagaland.	Fund released and executed through Department of Forest, Ecology, Environment & Wild life, Govt. of Nagaland.		Fund released and executed through Department of Forest, Ecology, Environment & Wild life, Govt. of Nagaland.

Dy. General Manager (C)

FINANCIAL OUTLAY AND PHASING

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	Project initiation, Monitoring & Evaluation, including cost of hiring of one vehicle, and computer & Accessories.	Development of Micro- Enterprises	a Training 20 modules in 20 villages	Training	b Multi-media tools and accessories	Honorarium for 20 women extension workers	Extension services	POL & Maintenance for 3 years for (a) & (b)	3 Jeeps for extension works in 5 districts	1 Lorry for carrying seedlings	Transportation	Tissue culture lab including running cost for 3 years	Engineering measures (300 nos. of check dam and Gully Plugging)	Biological/afforestation including raising of nurseries in 20 villages.	Works in agriculture (jhum) & community forest lands	Micro Plan preparation in 20 Villages	ITEMS
	9.00	70.00	12.00		6.00	18.00		8.00 ·	13.00	6.00		23.00	30.00	127.00		3.00	OUTLAY(Rs. IN LAKHS)
TOTAL = 325.00	9.00	70.00		12,00			24.00				27.00	23.00			157.00	3.00	TOTAL (Rs. in LAKHS)

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