



**NORTH EASTERN ELECTRIC POWER CORPORATION
OFFICE OF THE GM (Tech)
HYDRO STRUCTURE (MAINTENANCE)
PANYOR LOWER HYDRO POWER STATION
P.O- RANGANADI PROJECT::YAZALI:PIN-791119:ARUNACHAL PRADESH**

NO: NEEPCO/PLHPS/GM(T)/HS(M)/T-26/2025-26/

Dated

To,

**The Head of Office
Integrated Regional Office, Guwahati
Ministry of Environment, Forest and Climate Change,
4th Floor, Housefed Building
G.S Road, Rukminigaon, Guwahati-781022**

**SUB: REPORT ON ENVIRONMENTAL SAFEGUARD REGARDING MONITORING
& IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS (CONDITIONS
OF ENVIRONMENTAL CLEARANCE RIVER VALLEY PROJECTS)**

Ref: NEEPCO/Env. Cell/Gen/Mon-1/2009-10/332-336 dated 13/03/2010.

Sir,

I am to submit six monthly environmental compliance report on environmental clearance stipulation for the period from 1st October, 2024 to 31st March, 2025 (both in hard & soft copies) in respect of Panyor Lower HPS.

Encl: As above.

Yours faithfully,

**GM(Tech),
Hydro Structure Maintenance,
PLHPS, NEEPCO, Yazali,
A.P.**

REPORT ON
MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS OF
PANYOR LOWER HYDRO POWER STATION
Period from 1st October,2024 to 31st March, 2025

Part-I
(DATA SHEET)

1.	Project Type: - River- Valley/mining/industry/Thermal/Nuclear /Other (Specify)	River-Valley
2	Name of the Project	PANYOR LOWER HYDRO POWER STATION (PLHPS)
3	Clearance letter(s) OM No. & Date	J-11816/117/83-en-5/ Dtd. 26.07.1985
4	Location: - a) District b) State(s) c) Longitudes/Latitudes.	Lower Subansiri Arunachal Pradesh 27°20",93°45" E
5	Address of Correspondence a) Address of concerned Project Chief Engineer(with PIN code & telephone/telex/ Fax number)	The Head of Power Station (HoPS) Panyor Lower Hydro Power Station (PLHPS) NEEPCO Ltd, Dist. Lower Subansiri Arunachal Pradesh Pin Code- 79 1119 Telephone No. 03809- 222204 Fax No. 03809 – 222212
6	Salient Features a) of the Project b) of the Environmental management	(a) Enclosed as Annex I
7	Break up of the Project area a) Submergence area (Forest & non forest) b) Others.	160 HA
8	Breakup of project affected population with enumeration of those losing houses / dwelling units only, agricultural land only, both dwelling Units and agricultural land and landless laborers /artisans a) SC/ST /Adivasis b) Others. (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures. If a survey is carried out give details and year of survey)	(a) 297 Families
9	Financial Details a) Project as originally planned and subsequent revised estimates and the year of prime reference.	Original: Rs.312.78 Crore Revised : Rs.1455.44 Crores

	b) Allocation made for environmental management plans, with item-wise and year-wise breakup.	As approved & endorsed by MOEF&F
	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)	
	e) Actual expenditure incurred on the project.	Rs 1445.44 Crores
	Actual expenditure incurred on the Environmental management plans so far.	
10	Forest Land Requirement	281.18 Ha
	a) The status of approval for diversion of forest land for non-forestry use.	a) Reserved Forest Land =28.32 Ha vide No. 8-320-85-Fry(Cons),Krishi Bhawan, New Delhi Dtd. 25.08.1986 b) R.F & Unclassified state Forest= 252.86 Ha vide No. 8-320-85-F6.Govt.of India, Dtd. 05.07.1990.
	b) The status of compensatory forestation, if any	Done
	c) The status of clear felling	A few trees have been felled for construction of colony and office complex and for diversion dam in consultation with the Forest Authority
	d) Comments of the viability & sustainability of compensatory aforestation programme in the light of actual field expenditure so far.	-
11	The status of clear felling in non forest areas (such as submergence areas of reservoir , approach roads)	
12	Status of commencement (actual and / of planned)	April,1988
	a) Date of commencement (actual and/ or planned)	
	b) Date of completion (actual and / or planned)	2001-02
13	Reasons for delay (if the project is yet to start)	The main reasons for delay were i) late forest clearance, ii) insufficient finance iii) adverse geological and meteorological conditions, land remoteness, heavy rainfall and devastating flood.
	Date of site visit.	a) Dr. V.T.Darlong, Jt.Director on 28.3.1998 b) Dr. S.C Katiyar, Jt. Director , Regional Office,MOEF from 14.2.2007 to 16.2.2007 c) Dr.S.C.Katiyar, Jt. Director, Regional Office, MOEF, wef. 24 th and 25 th March,2009
14	a) The dates on which the project was monitored by the regional office on previous occasion, if any.	
	b) Date of site visit for the monitoring report.	
15	Public appreciation & public Complaint on the Project.	

PART-II

STATUS OF COMPLIANCE

Sl. No.	STIPULATION	STATUS OF COMPLIANCE.
I	Detailed note on the package of services being provided	Necessary Electrification of both the places is being provided by the Dept. of Power, Govt of Arunachal Pradesh. Detail enumeration of Project affected people losing agricultural land (WRC & Jhum land & Orchards) was done by the District authorities and accordingly compensation has been paid as per their assessment.
II	Employment provided to oustees, if any	Employment to 108 nos people were given to the land affected (directly and indirectly) who are schedule tribe of Arunachal Pradesh during the construction period (wef 1989 to 1996)
III	Provision of occupational training to the oustees	Necessary training is given as and when seeks for occupational training to the oustees. Training on various fields like industrial training, Human Resource Management of RHEP, Yazali. Basic concept of Hydro Turbine, Generator various types of Motors and control system how to monitor generation and distribution of Power system to provide power supply to vital installation like Dam, Tunnel , Intake etc. and also in various fields as seek for.
IV	Level of compensation both monetary as well as land for land	So far as records available in this office the amount of Rs 62, 03,135.00 paid as compensation... Shifting of 27 (Twenty seven) nos families residing in Chun & Rub village to Potin duly developing the new Rehabilitation site with water supply, approach road, school building, teacher's quarters and construction of hutments of approved specification , have been done at Project cost. And another 7 Nos families from Rub village opted for CGI sheet and water supply for their temporary shifted houses at Emchi Happa.
V	Water sources both for drinking and irrigation	27 (Twenty seven) nos families residing in Chun & Rub village had been shifted to Potin village duly developing the new Rehabilitation site with water supply. & (Seven) nos of families from Rub village opted for CGI sheet and water supply for their temporary shifted houses at Emchi Happa. Expenditure made for construction of CHECK DAM, TERRACE, M.I.CHANNEL, SPT CHANG-GHAR and other relief and rehabilitation measures. Work Order for Construction of water storage tank and supply line at Rub Village under CSR-CD Scheme has been issued and the work is under progress.

VI	Catchment treatment scheme	Rs 104.00 Lacs incurred for catchment treatment scheme.
VII	Land capability of the areas earmarked for distribution to the ousted farmers for agriculture.	The entire amount has been deposited to the Forest Dept. Govt. of Arunachal Pradesh for raising compensatory afforestation in 566.00 Ha of degraded land. As per approved plan, compensatory afforestation were supposed to be raised in identifying areas mostly in the Ranganadi Catchment nearer to the Dam site excepting a few parcel of land in the Dikrong valley. As per last report made available by the Forest Dep't. An amount of Rs 75.25 lacs was spent upto Dec, 2001. The report was directly submitted by the Forest Dept. Govt. of Arunachal Pradesh to MOE&F. Further report is available with NEEPCO.
VIII	Comment on Compensatory afforestation	The final status of the scheme implementation has not been communicated by the Forest Dept. Govt. of Arunachal Pradesh to NEEPCO. However, the scheme submitted by NEEPCO was prepared primarily in consideration to necessity, viability, sustainability and practicability and such other object befitting to topographical, socio economics and cultural domain in the area.
IX	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office at Shillong for review.	It is done periodically.

Annexure-I**SALIENT FEATURES OF PLHPS**

SL.NO	PARTICULARS	
01	Name of the Project	Panyor Lower Hydro Power Station
02	Location of the Project	About 70 KM from Itanagar
03	Nearest Railway station	North Lakhimpur, Assam

A. HYDROLOGY

SL.NO	PARTICULARS	VALUE	UNIT
01	Catchment Area up to Yazali Dam site	1,73,000	HA
02	Catchment Area up to Diversion Dam site	1894	Sq.Km
03	Maximum observed flood	1670	Cumecs
04	Design Flood	9175	Cumecs
05	ANNUAL RAINFALL		
	• Maximum	1562	Mm
	• Minimum	838	Mm
	• Average	1232	mm

B. RESERVOIR

SL.NO	PARTICULARS	VALUE	UNIT
01	Maximum annual run-off	5080	M.cum
02	Minimum annual run-off	2048	M.cum
03	Maximum water level (W.L)	567	Meter
04	Full reservoir level (FRL)	567	Meter
05	Minimum draw down level (MDDL)	560	Meter
06	Dead storage level (DSL)	546	Meter
07	Water spread area at FRL	160	HA
08	Gross storage at FRL (March 2025)	7.07	M.Cum
09	Dead storage at MDDL (March 2025)	3.01	M.Cum
10	Effective storage (March 2025)	4.06	M.Cum

C. DIVERSION DAM

SL.NO	PARTICULARS	VALUE	UNIT
01	Type of Dam	Conc. gravity	
02	Height of Dam	68	Meter
03	Length of dam (at top)	344.75	Meter
04	Top of dam EL	573	Meter
05	Type of spillway	Ogee	
06	Crest level	544	Meter
07	Spillway capacity	9175	Cumecs
08	River bed level	523.5	Meter
09	Foundation level	505	Meter
10	Gate (10 m x 12 m)	6	Nos.

D. WATER CONDUCTOR SYSTEM :

(a) INTAKE

SL.NO	PARTICULARS	VALUE	UNIT
01	Intake EL	547.90	Meter
02	Length of Trash Rack	31.50	Meter
03	Diameter of Intake Shaft	31.50	Meter

D. WATER CONDUCTOR SYSTEM :

(b) TUNNEL

SL.NO	PARTICULARS	VALUE	UNIT
01	Number	1	
02	Diameter	6.75	Meter
03	Slope	1:600 to 1:337	Meter
04	Length	10134.123	Meter
05	Capacity	160	Cumecs
06	Velocity	4.5	m/sec

D. WATER CONDUCTOR SYSTEM :

(b) PENSTOCK

SL.NO	PARTICULARS	VALUE	UNIT
01	Number	1 with tri-furcation	
02	Diameter	5.8	Meter
03	Length	818 (including trifurcation)	Meter
04	Trifurcation diameter	3.35	Meter
05	Trifurcation length	17	Meter

E. DIKRONG POWER HOUSE

SL.NO	PARTICULARS	VALUE	UNIT
01	Maximum TWL	247.76	Meter
02	Minimum TWL	245.15	Meter
03	Maximum Head	326	Meter
04	Minimum head	319	Meter
05	Design head	300	Meter
06	Installed capacity	3 x 135	MW
07	Firm power potential	570 GWH (65MW Cont.)	
08	Total energy	1509.66 MU	


