NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

(A GOVT. OF INDIA ENTERPRISE)

KOPILI HYDRO ELECTRIC PLANT OFFICE OF THE HEAD OF PROJECT UMRONGSO, DIMA HASAO, ASSAM.



Tel. 03670-288222, Fax: 03670-288240

NO. NEEPCO/KHEP/HOP/T-27/2019-20/

937

Dated: 06.11.2019

To

The Chief Conservator of Forest (Central),
Ministry of Environment and Forest (Govt. of India),
North Eastern Regional Office, Law – U- Sib, Lumbatngen,
Near MTC Workshop, Shillong – 793021.
Web site: mofero.shillong@gov.in

Sub: Submission of Six Monthly monitoring Report on Environment compliance for Kopili Hydro Electric Project Stage – I (Extension) and Stage – II.

Dear Sir,

Kindly enclosed herewith the six monthly monitoring report on the compliance to environment safeguard for KHEP Stage — I (Extension) and Stage — II for the period 1st April'2019 to 30st September'2019 as per the specified format (Hard and soft copy).

This is for favour of your kind information and further needful action please.

Thanking you.

Enclo: As stated above.

Yours faithfully

Head of Plant, KHEP, NEEPCO Ltd.

Umrongso, Dima Hasao, Assam

Memo No. NEEPCO/KHEP/HOP/T-27/2019-20/

Date: 06.11.2019

Copy to:-

- 1. The ED (O&M), NEEPCO, Shillong for kind information.
- 2. The CGM (C), CP, NEEPCO, Shillong for kind information.
- 3. The CGM (E/M), Environment and R&R wing, NEEPCO, Shillong for kind information along with a copy of the report.
- 4. The GM (C), NEEPCO, KHEP for information please.

Head of Plant, KHEP, NEEPCO Ltd. Umrongso, Dima Hasao, Assam

KOPILI HYDRO ELECTRIC PROJECT, STAGE – I Extn, (2 x 50 MW) MONITORING REPORT ON THE IMPLEMENTATION OF CONDITIONS OF ENVIRONMENTAL CLEARANCE AS ON SEPTEMBER'2019

PART-I

(DATA SHEET)

1	Project type	River-valley
2	Name of the project	Kopili Hydro Electric Project, 1st Stage Extension
3	Clearance letter/OM No. & date	Environmental clearance no: J-11016/67/82-IA-I dated 2 nd March 1993.
4	Location	District – Dima Hasao. State – Assam Latitude/ Longitude:25 ^o 32' N 92 ^o 41'E
5	Address of correspondence (a) address of concerned Project Chief Engineer	The Head of Project Kopili Hydro Electric Project NEEPCO Ltd., Umrongso PIN-788931 Tel:03670-288222 FAX-03670-288240
6	Salient features (a) of the project (b) of the Environment management plan	Already submitted.
7	Break up of the project area (a)Submergence area (forest & nonforest) (b)others	No new acquisition of land for reservoir after Stage-I, KHEP.
8	Break up of project effected population with enumeration of those losing houses/dwelling units only, agricultural land and land less labourers/artisans (a) Adivasis (b) Others	NIL NIL
9	(a)Project as originally planned and subsequent revised estimates and the year of prime reference	Original estimated cost Rs.111.00 Crores (including IDC of Rs.9.03 Crores) sanctioned vide letter no:22/17/88-D(T&N) dated 14.05.93 of MOP, GOI Revised cost Rs.134.48 Crores (including IDC Rs.3.53 Crores) sanctioned vide letter no 6/4/96-Hydel-11 dated 27.07.99 of MOP, GOI.
	(b)Allocation made for environmental management plans (c)Benefit cost ratio/internal rate of	Rs.603 lakh Debt:Equity ratio:1:1 Debt portion covered by govt loan @13.5%pa and

देवांनाप भट्टाक्स (E/M) सुख्य महाप्रवंन्धक (ई/एम्स)-Chief General Manager (E/M) खेप नीपको लि: उमराँग्सो KHEP, NEEPCO LTD. UMRANGSO

उप प्रवंधक (सी) /Dy. Manager (C) महाप्रवंधक (सी) का कार्यालय / O/o the G.M. (C) खेप, नीपको लि., उमरॉग्सो , असम KHEP, NEEPCOLtd., Umrangso, Assam Page-1 of 2

	return and the year of assessment.	propose return on equity @16%.
		Yes
	environmental management	D 107 C
	(e)Actual expenditure incurred on the	Rs.127 Crores
	project so far	Rs.467.00 lakh
	(f) Actual expenditure incurred on environmental management so far	KS.407.00 IAKII
10	Forest land requirement	Approval accorded for diversion of 3686.85 Ha of
10	(a) The status of approval for diversion	forest land for construction of the project(Stage-
	of forest land for non forestry use	I)vide MOE&F letter no:8-192/91-FC Dtd02-04-
	(b)The status of compensatory	93
	afforestation.	Against estimated amount of Rs.12.91 Crores an
		amount of Rs.4.303 Crores has already been
		released to the Forest Department, Assam during
		the period 2002-03 and 2003-04. Another 7.14
		Crores released during 2008-09. As such, total
		11.403 Crores has already been released.
	(c)The status of clear felling	NIL
	(d) Comment on viability and	The Forest Department of Assam and Soil
	sustainability of compensatory	
	afforestation program in the light of	
	field experience so far	
11	The state of clear felling in non-forest	
	areas(such as submergence areas of	NIL
	reservoir, approach)	
12	Status of construction	Project started in 1994 and commissioned in 1997-
13	Reason for delay(if the project is yet to	98. NA
13	start)	INA
14	Date of site visit	
	(a) Date on which the project was	Visited on 8th & 9th August/07
	monitored by the regional office on	Visited on 28th & 29th June/08
	previous occasion, if any.	Visited on 19.12.2017 to 23.12.2017
	(b) Date of site visit for this	
	monitoring report.	
15	Public appreciation & public complaint	NIL
	on this project.	

देवांतोष भद्राचाजाँ/Denotosh Bhattacharjee सुख्य महाप्रवंन्धक (ई/एम)/Cffief General Manager (E/M) खेप नीपको लि: उमराँग्सो KHEP, NEEPCO LTD. UMRANGSO उप प्रबंधक (सी) /Dy. Manager (C) महाप्रबंधक (सी) का कार्यालय / O/o the G.M. (C) खेप,नीपको लि., उमरॉग्सो , असम KHEP, NEEPCOLtd., Umrangso, Assam

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ANNEXURE - II

KOPILI HYDRO ELECTRIC PROJECT STAGE-I Extn., (2 X 50 MW) REPORT ON THE IMPLEMENTAION STATUS OF CONDITIONS OF ENVIRONMENTAL CLEARANCE AS ON SEPTEMBER 2019. PART – II

1. Project Type

: River Valley

2. Name of the Project

: Kopili Hydroelectric Project Stage – I Extension (2X50 MW)

3. Clearance Letter and date

: J-11016/67/82-IA.1 dt. 02-03-1993

4. Location:

a) District

: Dima Hasao

b) State

: Assam

c) Latitude / Longitude

: 25°30′ N 92°41′ E

5. Address of Correspondence

: The Head of Project, KHEP, NEEPCO Ltd.,

Umrongso, Dima Hasao, Assam

Pin - 788931

Phone: 03670-288222, FAX: 03670-288240

6. Date of Monitoring

: 19.12.2017 to 23.12.2017

SI No.	Stipulation	Status of Compliance
1	Considering that the upper catchment of Kopili	Complied.
	river has been exposed to increasing intensity of	
	human interference due to various developmental	
	activities and creation of network of roads and that	
	it happens to be the habitat of diverse flora and	Y .
	fauna, NEEPCO should undertake rapid survey of	
	Project impact area to identify and demarcate all	
	areas rich in biological diversity for total	
	protection.	
2	Even through, the area is rich in germplasm of	
	many plants of economic importance; no detailed	Complied.
	report on the survey of flora of kopili river has	
	been documented so far. The project authorities	
11	should, therefore initiate surveys for bio-diversity	
	in the catchment through competent agencies.	

देवांताप भट्टाचार्जी/Debotolo Bhattacharjee मुख्य महाप्रवंन्धक (ई/एम)/Chief deheval Manager (E/M)

उप प्रवंधके (स्री) /Dy. Manager (C) महाप्रवंधक (सी) का कार्यालय / O/o the G.M. (C) खेप, नीपको लि., उमरॉग्सो, असम KUEP NEEPCOLtd., Umrangso, Assam

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3	A phased programme for Catchment Treatment should be evolved and implemented by taking into consideration the reports already prepared by North Eastern Council and other Govt. agencies. The catchment area treatment programme should be completed prior to completion of the project work covering all the critically degraded areas.	The catchment of the project is spread in two states viz. Assam and Meghalaya. In Assam, the work of CAT was executed through N.C Hills Autonomous Dist. Council and the work is completed. However, in Meghalaya, the work of CAT was executed through Soil Conservation Department, Meghalaya. However, due to some demands by the local people which the Soil Conversation Deptt. could not agree, they had discontinued the work. Again, the matter is being taken up with the Soil Conservation Department, Meghalaya in line with the monitoring report of MOEF and CC, North Eastern Reason (NER) office, Shillong, Meghalaya.
4.	A plant resource center should be set up with representative species of regional flora through creation of botanical gardens in the sites in project colony, dam sites etc.	Complied.
5	Continuous monitoring of silt inflow at the project site and along the tributaries should be undertaken through creation of a network of silt monitoring stations to identify critical areas requiring priority treatment along with the project.	Complied
6	Details of Nurseries and mobilization of work force to handle afforestation programme be worked out and submitted to the Ministry.	Complied.
7	Inventory of aquatic fauna in the region should be prepared along with feeding habits and breeding cycles.	Complied.
8	Adequate free fuel arrangements should be made to the labour force employed during construction of the project to avoid destruction to the vegetation cover in the neighbouring areas	Complied.
9	Restoration of construction area should be ensured to the extent possible by leveling, filling of pits and landscaping etc.	Complied.
	1	

देवांब्रांच महाचार्गा/Debotosh Bhattacharjee पुरुष महाप्रवंन्धक (ई/एम)/Chief General Manager (E/M) खेप नीपको लि: उमराँग्सो KHEP, NEEPCO LTD. UMRANGSO

उप प्रबंधक (सी) /Dy. Manager (C) महाप्रबंधक (सी) का कार्यालय / Olo the G.M. (C) खेप, नीपको लि., उमरॉम्सो , असम

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10	The Ministry should be informed every six months of the follow up action taken on the recommendations and the project should be initiated only after ensuring that all arrangements to execute the above recommendations have been made as an integral part of the project.	Complied. Arrangements are made to complete the follow up actions.
11	Item-wise financial allocation with yearly requirement should be made in the project budget for implementation of the safeguard	Complied. Budget provision is available.
12	A Multi Disciplinary Committee should be constituted to ensure effective implementation of the safeguard	Multi-Disciplinary Committee was constituted and the last meeting was held on 10.03.1998. Due to lapse of time, documents related to formation of the Multi-Disciplinary Committee are not available. As such, the matter was discussed with the officials of MOEF and CC, NER, Shillong, Meghalaya during the visit to the Kopili H.E.Plant in the Month of December, 2017 and action is being taken up for reconstituting the Multi – Disciplinary committee in order to arrange meetings etc.
13	Implementation of these and any other safeguards that shall be stipulated latter in this regard will be implemented among others under provisions of the Environment (Protection) Act, 1986	Consent to operate for the year 2019 – 20 has already been received.

देवांनाप भट्टाबाजी/Debotosh Bhattacharjee मुख्य महाप्रवन्धक (ई/एम)/Chief General Manager (E/M) खेप नीपको लिः उमराँग्सो KHEP, NEEPCO LTD. UMRANGSO उप प्रबंधक (सी) /Dy. Manager (C) महाप्रबंधक (सी) का कार्यालय / O/o the G.M. (C) खेप, नीपको लि., उमरॉग्सो , असम KHEP, NEEPCOLtd., Umrangso, Assam

KOPILI HYDRO ELECTRIC PROJECT, STAGE – II, (1 X 25 MW) MONITORING REPORT ON THE IMPLEMENTATION OF CONDITIONS OF ENVIRONMENTAL CLEARANCE AS ON SEPTEMBER"2019

PART-I (DATA SHEET)

1	Project type	River-valley
2	Name of the project	Kopili Hydro Electric Project, Stage-II
3	Clearance letter/OM No. & date	(i)Forest clearance-No:F.8-192-91-FC Dated. 02.04.1993.
		(ii)Environmental clearance no: J-12011/3/98-IA-Dated 9.11.98.
4	Location	District – Dima Hasao
		State – Assam
		Latitude/ Longitude:25 ^o 32 N 92 ^o 41'E
5	Address of correspondence	The Head of Project
	(a) address of concerned Project Chief	
	Engineer	NEEPCO Ltd., Umrongso
		PIN-788931 Tel:03670-288222
		FAX-03670-288240
6	Salient features	
	(a)of the project	Already submitted.
_	(b)of the Environment management plan	
7	Break up of the project area	
	(a)Submergence area (forest & non-	No new submergence area.
	forest)	Land has already been acquired for this project
0	(b)others	during Stage-I construction.
8	Break up of project effected population	
	with enumeration of those losing	
	houses/dwelling units only, agricultural land and land less labourers/artisans	
	(a) Adivasis	NIL
	(b) Others	NIL NIL
9	Financial details	NIL
9	(a)Project as originally planned and	Original estimated cost in 1997 Rs.63.30 Crores
	subsequent revised estimates and the	sanctioned estimated cost at Sept 1998 price level
	year of prime reference	Rs.76.09 Crs.(Sanctioned vide L/no:6/3/97-Hydel-
	year or prime reference	II Dtd.27.07.99 of MOP, GOI).
		Revised estimated cost at Feb'2004 price level
		Rs.95.02 Crores
		Plantation -Rs.8.54 lakh
		Env. & Ecology-16.0 Lacs.
	(b)Allocation made for envirinmental	As per Annexure - III
	management plans with item wise and	

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पुष्प प्रशाह सी) /Dy. Manager (C)
उप प्रशाह सी) /Dy. Manager (C)

Annexure - I

	year break up.	Debt: Equity ratio:1:1
	(c)Benefit cost ratio/internal rate of	Debt portion covered by govt loan @13.5%pa and
	return and the year of assessment.	proposed return on equity @16%. Commercial
	•	generation started from July, 2004.
	(d)Whether(c) includes cost of	Yes
	environmental management	
	(e)Actual expenditure incurred on the	Up to June'2004 Rs.85.76 Crores
	project so far	
	(f) Actual expenditure incurred on	Expenditure incurred in restoration of construction
	environmental management so far	area Rs.5.50 lakh
10	Forest land requirement	
	(a)_The status of approval for diversion	Approval accorded for diversion of 3686.85 Ha of
	of forest land for non forestry use	forest land for construction of the project(Stage-
		I)vide MOE&F letter no:8-192/91-FC Dtd02-04-
		93
	(b)The status of compensatory	Against estimated amount of Rs.12.91 Crores an
	afforestation.	amount of Rs.4.303 Crores has already been
		released to the Forest Department, Assam during
		the period 2002-03 and 2003-04. Another 7.14
		Crores released during 2008-09. As such, total 11.403 Crores has already been released.
		11.403 Crores has already been released.
	(c)The status of clear felling	NIL
	(d) Comment on viability and	The Forest Department of Assam and Soil
	sustainability of compensatory	Conservation Department of Meghalaya are
	afforestation program in the light of	
	field experience so far	r
11	The status of clear felling in non-forest	,
	areas(such as submergence areas of	NIL
	reservoir, approach)	
12	Status of construction	
	(a) Date of commencement	20.01.1999
	(b) Date of completion	Project commissioned in Dec'2003
		Commercial generation started in July'2004.
13	Reason for delay(if the project is yet to	NA
1.	start)	
14	Date of site visit	Att to 1 oth a oth A 107
	(a) Date on which the project was	Visited on 8th & 9th August/07
	monitored by the regional office on	Visited on 28 th & 29 th June/08
	previous occasion, if any.	Visited on 19.12.2017 to 23.12.2017
	(b) Date of site visit for this	
15	monitoring report. Public appreciation & public complaint	NIL
13	on this project.	INIL
	on and project.	\wedge

सुख्य महाप्रवंश्वक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य महाप्रवंश्वक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य महाप्रवंश्वक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य महाप्रवंश्वक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य महाप्रवंश्वक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य महाप्रवंश्वक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य प्रवंशक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य प्रवंशक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य प्रवंशक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य प्रवंशक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य प्रवंशक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (C) सुख्य प्रवंशक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (ट) सुख्य प्रवंशक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (ट) सुख्य प्रवंशक (ई/एम)/Chief General Manager (सी) का कार्यालय / Olo the G.M. (ट) सुख्य सुख

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ANNEXURE - II

KOPILI HYDRO ELECTRIC PROJECT, STAGE – II, (1 x 25 MW) MONITORING REPORT ON THE IMPLEMENTATION OF CONDITIONS OF ENVIRONMENTAL CLEARANCE AS ON SEPTEMBER'2019 PART-II

1. Project Type : River Valley

2. Name of the Project : Kopili Hydroelectric Project Stage - II : J-12011/3/98-ia-1A.1 dt. 09-11-1998 3. Clearance Letter and date

4. Location:

a) District : Dima Hasao b) State : Assam

c) Latitude / Longitude : 25°30′ N 92°41′ E

5. Address of Correspondence : The Head of Project, KHEP, NEEPCO Ltd.,

Umrongso, Dima Hasao, Assam

Pin - 788931

Phone: 03670-288222, FAX: 03670-288240

6. Date of Monitoring : 19.12.2017 to 23.12.2017

SL No	Stipulations	Status of compliance
1	Adequate free fuel arrangements should be made to the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.	Complied.
2	All the labourers to be engaged for construction woks should be thoroughly examined by health personnel and adequately treated before issuing them work permit for the project.	Complied.

दुवानाप महायानग्राम् हिल्ला (दि) प्रमुख्य महाप्रवंद्यक (ई/एम)/Chief General Manager (E/M) महाप्रवंद्यक (सी) का कार्यालय / O/o the G.M. (C) देवाताप भट्टाचाना/Debotosh Bhattacharjee खेप नीपको लि: उमराँग्सो

खेप,नीपको लि.,उमरॉग्सो, असम WHER NEEPCOLtd., Umrangso, Assam Page-1 of 2

3	Restoration of construction area including dumping site of excavated materials/at Dam site should be ensured by leveling, filling up borrow pits, landscaping etc. The area should be properly afforested with suitable plantation.	Complied. All construction areas i,e power House site, Tail Race site and Dumping areas have already been restored and plantation is done in phased manner as a continuous process.
4	Preventive actions proposed under the emergency action plan in Dam break analysis should be followed in toto.	Preliminary emergency action plan has already been prepared. Identification of source of materials and Tools and Equipments has been done. A map showing the probable submergence area in the down stream of the dam has also been prepared. Work order issued vide No. NEEPCO/KHEP/C & P (C)/F – 05/2012 – 2013/1186 dtd. 18.01.2013 to M/s Vignesh Enterprises, Jorhat, Assam. Field survey work has already been completed. Drawing submitted.
5	Six monthly monitoring reports should be submitted to the Ministry and its regional office at Shillong for review.	Complied.

ay.

देवाताप भट्टाचार्ति/Debotosh Bhattacharjee भुख्य महाप्रवेन्धक (ई/एम)/Chief General Manager (E/M) खेप नीपको लि: उमराँग्सो KHEP, NEEPCO LTD. UMRANGSO उप प्रविधक (सी) /Dy. Manager (C) महाप्रबंधक (सी) का कार्यालय / O/o the G.M. (C) खेप,नीपको लि.,उमरॉग्सो , असम KHEP, NEEPCOLtd.,Umrangso,Assam