499449/2021/FC

## Fwd: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Fwd: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Fwd: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Forest Clearance for Etalin HEP (3097 MW)

From : jiju J.S. <jiju.jairaj@gov.in>

Thu, Jul 29, 2021 02:54 PM @4 attachments

Subject : Fwd: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Fwd: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Fwd: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Forest Clearance for Etalin HEP (3097 MW)

**To :** SURJEET KUMAR < surjeet.88@gov.in>

Please put up

Jiju J. S. Technical Officer Forest Conservation Division Ministry of Environment, Forest and Climate Change New Delhi. mob: 9458124382

From: "Sandeep Sharma" <sandeep.sharma76@gov.in> To: "jiju J.S." <jiju.jairaj@gov.in> Sent: Tuesday, July 27, 2021 3:49:28 PM Subject: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Fwd: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Fwd: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Forest Clearance for Etalin HEP (3097 MW)

From: "Anjan Kumar Mohanty" <igfmef.akm@gov.in>
To: "Sandeep Sharma" <sandeep.sharma76@gov.in>
Sent: Tuesday, July 27, 2021 11:23:55 AM
Subject: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Fwd: [WARNING:
ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Forest Clearance for Etalin HEP (3097 MW)

From: ccfnodalar@gmail.com To: pemarana220022@gmail.com, "igf akm" <igf.akm@gmail.com>, "ss moef" <ss.moef@gmail.com>, "Anjan Kumar Mohanty" <igfmef.akm@gov.in> Sent: Monday, July 26, 2021 1:21:12 PM Subject: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Forest Clearance for Etalin HEP (3097 MW)

Sir,

Kindly find herewith the attached documents & revised KML file on the above subject which was sent through email & biy Speed Post on 31st August' 2020 for your kind information & necessary action.

Yours faithfully,

PA to Nodal Officer (FCA) PCCF & NO (FCA) Environment Forest & climate Change, Itanagar

Etalin HEP 1.pdf 124 KB

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KML file of 15.58 Ha. area Heduled by FAOSub Confinittee Winth the Lude Q045Ha 67 Non Forest Land and 14.54 499449/202 Hafof Forest Area.kmz

58 KB

KML file of revised forest area 1151.12 Ha. (1165.66-14.54 Ha).kmz 2 MB		Etalin.pdf 2 MB
	¢	

Subject : [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Fwd:

From : Sandeep Sharma < sandeep.sharma76@gov.in>

Tue, Jul 27, 2021 03:50 PM @4 attachments

[WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Fwd: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Forest Clearance for Etalin HEP (3097 MW) **To :** jiju J.S. <jiju.jairaj@gov.in>

From: "Anjan Kumar Mohanty" <igfmef.akm@gov.in>
To: "Sandeep Sharma" <sandeep.sharma76@gov.in>
Sent: Tuesday, July 27, 2021 11:23:55 AM
Subject: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Fwd: [WARNING:
ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Forest Clearance for Etalin HEP (3097 MW)

From: ccfnodalar@gmail.com To: pemarana220022@gmail.com, "igf akm" <igf.akm@gmail.com>, "ss moef" <ss.moef@gmail.com>, "Anjan Kumar Mohanty" <igfmef.akm@gov.in> Sent: Monday, July 26, 2021 1:21:12 PM Subject: [WARNING: ATTACHMENT UNSCANNED][WARNING: UNSCANNABLE EXTRACTION FAILED]Forest Clearance for Etalin HEP (3097 MW)

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Yours faithfully,

PA to Nodal Officer (FCA) PCCF & NO (FCA) Environment Forest & climate Change, Itanagar

	Etalin HEP 1.pdf 124 KB
¢	KML file of 15.58 Ha. area reduced by FAC Sub Committee, Which Include 1.04 Ha. of Non Forest Land and 14.54 Ha.of Forest Area.kmz 58 KB
	Etalin.pdf 2 MB
\$	<b>KML file of revised forest area 1151.12 Ha. (1165.66-14.54 Ha).kmz</b> 2 MB

**BY SPEED POST** 

## GOVERNMENT OF ARUNACHAL PRADESH DEPARTMENT OF ENVIRONMENT & FORESTS

ITANAGAR.

File No.FOR. 279/Cons/2010/Vol-II/2, 206 - 08

Dated, Itanagar 31

agar 31° August'2020

To

Shri Sandeep Sharma Assistant Inspector General of Forests, Forest Conservation Division, Govt. of India, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi-110003.

Sub:- Diversion of 1165.66 ha (including 91.331 ha underground area) of forest land for construction of Etalin Hydro Electric Project (EHEP) ( 3097 MW) in Dibang Valley District of Arunachal Pradesh by M/s Etalin Hydro Electric Power Company Limitedregarding.

Ref:- Your letter No. 8-20/2014-FC dated 8th August'2020.

Sir,

With reference to above letter on the subject, this is to furnish the following for your information and necessary action:-

1) The revised Cost Benefit Analysis as per the latest Guidelines of MoEF&CC had been sent to RO, Shillong vide this office letter No. FOR. 279/Cons/2010/Vol-I/1618-21 dtd. 29/05/2020 (copy enclosed-*Annexure-II*) as asked vide their letter No. 8-20/2014-FC/55-56 dtd. 24/04/2020 (copy enclosed-*Annexure-II*) & letter dtd. 14/05/2020 (copy enclosed *Annexure-III*) in compliance of FAC's observation dtd. 23/04/2020. On scrutiny of Cost Benefit Analysis, the RO, Shillong has observed some shortcomings vide their letter dtd. 15/07/2020, reply of which has been sent vide this office letter dtd. 18/08/2020 (copy enclosed at *Annexure-IV*).

2) The details of revised forest area of 1151.12 ha proposed now for diversion after surrender of an area of 14.54 ha is as follows:-

Sl. No.*	Classification of forests	Area in ha.	
1	Moderately Dense Forests	336.45	
2	Open Forests	491.92	
3	Very Dense Forests	237.28	
4	River Body	49.97	
5	Underground HRT area (Notional)	35.50	
Total		1151.12	

In this connection, it is pointed out here that out of reduced area of 15.58 ha as recommended by the FAC Sub- Committee, 1.04 ha is Non-Forest land. Hence, actual area required to be reduced now is 14.54 ha. The KML file of revised forest area of 1151.12 ha and 15.58 ha are enclosed at *Annexure –V & VI*.

3. The State Govt. will allow felling of trees from the reservoir area for essential infrastructure works and rest of the trees in reservoir will be retained. However, the User Agency is to be asked to pay the cost of project affected trees in the reservoir area, which are required to be retained & utilized, otherwise will result into loss of revenue inviting audit objection.

4. The comments of the State Govt. regarding large No. of representation as received, has already been sent to MoEF& CC, New Delhi vide this office letter No. FOR 279/Cons/2020/Vol-I/1884 dtd. 03/08 2020 ( copy enlcoed at *Annexure-VII*).

In view of above, you are requested to convey the approval for diversion of forest land for above project as earliest as possible.

Enclo: As above

Yours faithfully

Principal CCF (A&V) & Nodal Officer(FCA)

Copy to:-

- 1. The Chief Engineer (Monitoring), Department of Hydro Power Development, Itanagar for information and necessary action
- M/s Etalin Hydroelectric Power Company Ltd., Jindal Centre, 5<sup>th</sup> floor, Tower-B Plot No. 2, Sector-32, Gurgoan-122001, Haryana for information.

(R.K.Singh) PCCF (A&V) & Nodal Officer (FCA)

## GOVERNMENT OF ARUNACHAL PRADESH DEPARTMENT OF ENVIRONMENT & FORESTS ITANAGAR

No.FOR.279/CONS/2010 Vol-1/1618 -21 Dated, 29 May'2020 To The Deputy Inspector General of Forests (C) North Eastern Regional Office Law- U- Sib Lumbatngen, Near MTC Workshop Shillong-793021

Sub: Diversion of 1165.66 ha (including 91.331 ha underground area) of forest land for construction of Etalin Hydro Electric Project (3097 MW) in Dibang Valley District of Arunachal Pradesh by M/s Etalin Hydro Electric Power Company Limited.

Ref: Your letter No.8-20/2014-FC/55-56 dated 24th April,2020

Sir,

With reference to your letter No. cited above, this is to submit herewith the following documents:

- Detail report alongwith photographs after re-verification of CA area by the DFO, Anini Social Forestry Division identified for CA plantation in respect of above project.
- 2. The updated Cost Benefit (CB) Analysis for Etalin Hydro Electric project, as provided by the User Agency.

Enclo: As stated above

Date 15-6-20

Yours faithfully,

Ministry of Environment, Furber Regional Once June ..

(R.K. Singh) PCCF (A & V) & NO (FCA)

Copy to: -

- The Deputy Inspector General of Forests, Forest Conservation Division, Govt. of India, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Aliganj-Jorbagh Road, New Delhi-110003 for information.
- 2. The Chief Conservator Forests, EAC/WAC for information and necessary action.

(R.K Singh) PCCF (A & V) & NO (FCA)

Carrier -		COST - BENER	TIT ANALYSIS	
2	Nar	ne of the Project: Etalin Hy	dro Electric D	18-05-2020
100 (of )				
1.44	Nature of proposal	Applicable/ not applicable	t analysis for forest diversion are required	1
Sr. No	All categories of proposals	Applicable/ not applicable	Remarks	Applicability in Etalin
1	involving forest land upto 20 hectares in plains and upto 5 hectare in hills.	Not applicable	These proposals may be considered on a case-to-case basis and value judgment.	Not applicable
2	Proposal for defence installation purposes and oil prospecting (prospecting only).	Not applicable	In view of national Priority accorded to these sectors, the proposals would be critically assessed to help ascertain that the utmost minimum forest land is diverted for non-forest use.	Not applicable
3	Habitation, establishment of industrial units, tourist lodges complex and other building construction.	Not applicable	These activities being detrimental to protection and conservation of forest, as a matter of policy, such proposals would be rarely entertained.	Not applicable
4	All other proposals involving forest land more than 20 hectares in plains and more than 5 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, hydro projects, mining activity, railway lines, location specific installations like micro-wave stations, auto repeater centers, TV towers etc.	Applicable	These are cases where a cost-benefit analysis is necessary to determine when diverting the forest land to non- forest use in the overall public interest.	Applicable and therefore Cost Benefit Analysis is carried out as per Table B and C of latest Forest Guidelines

trant

10		COST - BENEFIT ANALYSIS		
	Name of the	Project: Etalin Hydro Electric Project delines : Handbook of Eccent		18-05-20
	Source Gui	delines : Handbook of Forest publish B: Estimation of cost of forest	(3097 MW)	
	Table	B: Estimation of cost of forest diver	sion	
No.	Parameters	Remarks		
		contonnic value of loss of eco-system	Applicability in Etalin	Amount (in Rs. Crores)
15	Ecosystem services losses due to proposed forest diversion.	services due to diversion of forests shall be the net present value (NPV) of the forest land being diverted as prescribed by the Central Government (MoEF&CC). Note: In case of National Parks the NPV shall be ten (10) times the normal NPV and in case of Wildlife Sanctuary the NPV shall be five (5)	Cost of NPV as given in EMP (Refer Page 12.4 of EMP)	f 103.71
	productivity, including loss of	To be quantified and expressed in monetary terms or 10% of NPV applicable whichever is maximum	1. Amount as per 7.7.1 (A) of WII Report = Rs 1 Crores. 2. 10% of NPV : Rs. 10.37	10.371
3	Cost of human resettlement.	To be quantified and expressed in monetary terms as per approved R&R plan	Cost notified in R&R package for Rehabilitation & Resettlement as well as providing Infrastructure in Re-Settlement area (Refer Page 27 of R&R Plan) includes; a) Rehabilitation grant of Rs. 91.58 Crores b) Infrastructure in Re- settlement area Rs.	106.58
4	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project.	To be quantified and expressed in monetary terms on actual cost basis at the time of diversion.	After detailed property Survey by District administration, the Loss of Structure like school, Rappe forest office, PWD	5.74
5	Possession value of forest land diverted	30% of environmental costs (NPV) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component as	30% of NPV	31.11
6	Cost of suffering to oustees.	The social cost of rehabilitation of oustees (in addition to the cost likely to be incurred in providing residence, occupation and social services as per	As mentioned above in SL 03, the total number of project affected families is 284, out of which 176 are likely to be re-settled as per R&R	

[4n]

Resettlement has been

considered in Sr. No 03

51.855

Plan and the cost of

50% of NPV

Anthe

Habitat Fragmentation Cost.

R&R plan) be worked out as 1.5 times

two years had he not been shifted.

services is complex, for the sake of simplicity the cost due to

While the relationship between fragmentation and forest goods and

of what oustees should have earned in Rehabilitation &

		214 of report) 2. Cost of CAT Plan (Refer CAT Plan approval letter by GoAP and page 45 of approved CAT plan) 3. Cost of EMP (Refer Page15.1 of the	Crores. 2. CAT Plan Cost : Rs. 42.51 Crores.	
10	Other Losses as predicted in EMP, WII, CAT Plan etc.	report) which includes (Detail calculation As Annexure-D); including a) Cost of Biodiversity Conservation and Management Plan b) Fishery conservation and management plan, c) solid waste management plan, d) public health delivery system, e) Energy conservation measures,	3. Cost of EMP: Rs. 186.86 Crores (Excluding NPV, R&R, Compensatory Afforestation including	240.35
ê e t		<li>f) Muck disposal plan, g) Landscaping and Restoration Plan of Ouarry &amp; Working Areas</li>	Cost as per Approved	
1	Cost of the project as per approved DPR		Cost as per Approved DPR is Rs. 25296.95 Crores (Annexure E Attached) . However it also includes the NPV therefore net cost shall be Approved cost - NPV = 25296.95 -103.71 =	25193.24
ARCE A	And the set of a state of the set	Total Los		25830.30

Anthe

		Anthe			
ses 67.25	<ul> <li>a) Rehabilitation grant of Rs. 91.58 Crores.</li> <li>b) Infrastructure in Re-settlement area Rs. 15.00 Crores.</li> <li>c) Economic Development Package which includes providing healthcare facilities, Scholarships, e4.31 Crores.</li> <li>d) Special Grant for PAF's Rs. 95 Lakhs.</li> <li>e) Monitoring and Evaluation: Rs. 2 Crores</li> <li>Since, a) and b) are the cost of human Rehabilitation and Resettlement and considered in Losses , and Since Sr No c), d) and e) are considered here totalling to 67.26 Crores</li> </ul>		No. of population benefited due to specific project	. ( w	
<u>q</u>	Such benefits of intangible nature cannot be quantified. It is estimated that project shall employ 3000 labours along with 800 technical persons, during construction phase of 7.5 years of the project. The total population directly and indirectly benifited would be 11000 persons (Refer Table 4.1 of EMP). During operation phase, it is estimated that 300 persons would be employed (Refer 8.2.3 of EMP). Apart from this, and asper R&R plan, project will be individuals in terms of increased boalthcare, employment opportunities, better infrastructure, water supply, electricity supply, sanitation education and skill development leading to much better living standards than presently. However As per approved R&R Plan Total R&R package (Refer Page I7 of R&R Plan) includes;	As per the Detailed project report			6
194076.04		monetary terms due to the activities attributed to the specific project.	Benefits to economy due to the specific project.	N	
	1. Free Power @ 12% to State Govt. from Commercial Operation Date (COD) equivalent to 1540.27	To be quantified & expressed in monetary terms avoiding double counting.	Increase in productively attribute to the specific project.	5. NO.	
(in Rs. Crores)	Applicability in Etalin	Remarks	Parameters	1	
	Table C: Existing guidelines for estimating benefits of forest-diversion in CBA	Table C: Existing guideli		1	1
	ame of the Project: Etalin Hydro Electric Project (2097 MW) Source Guidelines : Handbook of Forest published in 2019	Name of the Project: Source Guidelines :			Y
10.00 - 000	COST - BENEFIT ANALYSIS			1 AN	P
48 05 3030				Sector Sector	1

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