

MEGHALAYA STATE ELECTRICITY BOARD
OFFICE OF THE MEMBER TECHNICAL

107 LUM JINGSHAI, SHORT ROUND ROAD, SHILLONG - 793001

TEL: 0364-221189; FAX - 0364-226515

B. G. Kharkongor
 Member Technical
 No. MTN/06/02(1) 2-5

DI, Shillong, the 20th Oct, 1998

To,

The Secretary,
 Central Electricity Authority,
 Sewa Bhawan, R K Puram,
 New Delhi - 110086

Sub - Detailed Project Report for Myntdu (Lushka) Hydro Electric Project (2x42MW)

Sir,

I am submitting 10 copies of the Detailed Project Report of 2x42MW Myntdu (Lushka) Hydro Electric Project in 3 (three) parts. SHRI B.M. WAR, Assistant Executive Engineer, Design Division M&S/D is deputed for handing over all the copies of DPR to you. This is in continuation to our submission of one copy of Detailed Project Report to Member (Hydro), Central Electricity Authority during the meeting held on 5th October, 1998 at Shillong. Any clarification on the DPR may be faxed to the undersigned. Officers connected with investigation and Design will be deputed if necessary.

An early Techno Economic Clearance is requested. All correspondences may please be made with the undersigned.

Yours faithfully,

B. G. Kharkongor
 (B. G. Kharkongor)
 Member (Technical)

PROCEEDINGS OF THE ENVIRONMENTAL PUBLIC HEARING FOR THE 1004
PUSH SAKSA HYDRO POWER PROJECT OF MEGHALAYA STATE ELECTRIC
COMMISSION, HELD AT AMLAHEM ON 24TH MARCH, 1999 IN THE OFFICE
OF THE S.A.C. (CIVIL) AMLAHEM.

The following members of the Environmental Public Hearing Panel were present.

CHEN

1. Shri W.S. Mawlong, Deputy Commissioner, Jaintia Hills District.
2. Shri O. Budnah, Conservator of Forest (Social Forestry and Environment), Govt. of Meghalaya, Shillong.
3. Shri H.P. Bhattacharyya, Addl. Chief Engineer (Civil) W. S. E. B.
4. Shri M. B. Das, Chief Forest Officer, J.R.A.D.C., Jowai.
5. Shri S. P. Das, Revenue Officer, J.R.A.D.C., Jowai.
6. Shri P. Chiron, Assistant, Jowai.
7. Shri M. B. Das, Assistant, Jowai.
8. Shri M. B. Das, Assistant, Jowai.
9. Shri M. B. Das, Assistant, Jowai.

0014-1801/95/0007-0000\$05.00/0

- Dr. S. S. Nongthong, Environmental Engineer, M.P.C.B.

At the outset, the Chairman welcomed all the members of the Panel and the public present at the Hearing and called the meeting to

The Chairman invited Shri J.N.Nangong, BE, M.P.C.B. & Member SEB, to give a brief introduction of the Environmental Audit Bureau. The Member Secretary gave a brief description of the nature, objectives, compositions and procedures of the Environmental Audit Bureau. He further explained the motive of this particular Environmental Audit Hearing conducted with respect to the proposed

The Chairman, then invited the Project Proponent, Shri P. P. Bhattacharya, Additional Chief Engineer (Civil), He.S.R.B. to give a brief description of the project. Shri P.P. Bhattacharya explained the purpose and nature of the project. He also mentioned the physical and social benefits of the local people from the proposed project. He further outlined the cost of the project and the Environment and the site. He stated that the cost of the Project i.e. 3000000 and the total area required will be 337 acres. Around 100 acres is the forest land, 232 acre is the barren land, and only 250000 in the Khandwa District. But the Project area will be only 150 acres. The remaining 187 acre will be for setting up Quarters.

After the speech of the Project Proponent, the Chairman invited Shri H. H. Nangnong, E.E., M.C.B. to read out the written objection/statements received. Shri H. H. Nangnong informed that the Board has not received any written objections/statements except a letter from the Haid Thangbuli, asking the Board to allow one of the members of the Haid Thangbuli to be a member of the Environmental Public Hearing Committee. The Chairman informed that notification of members was done as per guidelines. The S.D.O. (Civil), Amalarem has also received some written statements, who stated, The written statements received by the S.D.O. (Civil), Amalarem were from Shri. Milisipal Hok, asking for compensation from the M.S.E.B. and another written statement is from the Secretary of Haid Thangbuli, asking for the same, i.e., compensation from the M.S.E.B.

After the written statements were read out the Chairman enlightened the public by saying that compensation will be distributed to such affected people of the area as per the provisions of the Land Acquisition Act. The Chairman then invited views, suggestions, comments and objections, if any, from the public participating in this Hearing.

Shri. Blum of Thangbuli enquired whether any Agreement will be made for paying the land compensation to the rightful owners. The Chairman explained that Agreement will be made with every land owner before paying any land compensation.

Shri. H. H. Farlang from Thangbuli and Shri. Kobbil Ramu, the Headman of Thangbuli asked whether compensation will be provided for the standing trees which will be utilised under the Project the Chairman explained that compensation will be given to all standing trees and crops.

Shri. Donbatu of Pongshadap asked whether pastoral land will also be compensated. The Chairman further enlightened them by saying that their Pastoral Land, Barren Land and others will be fully compensated.

Shri. Tingen Blum from Thangbuli and Shri. Jee Blum from Amaladkhar enquired regarding the witness during the compensation process. The Chairman stated that the witness during the compensation process will be local people themselves, like the local Headman, the local people, the local Lingdon and others. Therefore the compensation will be given to the rightful owner after they have been verified by these local leaders.

The Chairman then invited Shri. Herman Farlang, member of the project to give a brief speech.

Shri Harman Tariang, member of the Panel said that the Project will be of great benefit to the local people. Opportunities in the form of direct and indirect Employment, establishment of Educational Institutions and dispensaries etc. He also urged that the concerned authorities to look after the welfare of the people while the project is in progress.

The Chairman gave a concluding remark, saying that this project will greatly benefit the local people and their descendants. As no further, oral views, comments, suggestions and objections were made by the public present, the Chairman invited Shri J.H.Nongnong to give the vote of thanks.

Shri J.H.Nongnong presented the vote of thanks and subsequently the Chairman declared the meeting closed.

(Shri J.H.Nongnong)
Member Secretary, EPHC

(Shri W.S.Mawlong, IAS)
Chairman, EPHC.

(Shri C. Mawlong)
Member, EPHC

(Shri D.P. Bhattacharya)
Member, EPHC

(Shri G. Mawlong)
Member, EPHC

(Shri B. Pashiang)
Member, EPHC

(Shri P. Mawlong)
Member, EPHC

(Shri H. Tariang)
Member, EPHC

PROCEEDINGS OF THE ENVIRONMENTAL PUBLIC HEARING FOR THE PROPOSED
JESKA HILLS POWER PROJECT OF MEGHALAYA STATE ELECTRICITY BOARD,
HELD AT KHILIENTHAT ON 27TH MARCH, 1999 IN THE OFFICE OF THE S.D.O.
(CIVIL) KUPHIAHAT.

The following members of the Environmental Public Hearing Panel were present.

CHAIRMAN :

1. Shri W.S. Mawlong, Deputy Commissioner, Jaintia Hills District.

MEMBERS :

2. Shri C. Budnah, Conservator of Forest (Social Forestry and Environment), Govt. of Meghalaya, Shillong.
3. Shri D.P. Bhattacharya, Addl. Chief Engineer (Civil), M.S.E.B.
4. Shri G. Rymbai, Chief Forest Officer, J.H.A.D.C., Jowai.
5. Shri B. Pashiang, Revenue Officer, J.H.A.D.C., Jowai.
6. Shri P. Sureng, Amledkhur, Jorain.
7. Shri Herman Turiang, Thangbali.
8. Shri Mir. Subhen, Zaqhen.

MEMBER SECRETARY :

9. Shri J.R. Nengchong, Environmental Engineer, M.P.C.B.

At the outset, the Chairman welcomed all the members of the panel and public present at the Hearing and called the meeting to order.

The Chairman, invited Shri J.R. Nengchong, E.E., M.P.C.B. & Member Secretary, EPHC to give a brief introduction of the Environmental Public Hearing. The Member Secretary gave a brief description of the purpose, objectives, compositions and procedures of the Environmental Public Hearing. He further explained the motive of this particular Environmental Public Hearing conducted with respect to the proposed project.

The Chairman, then invited the Project Proponent, Shri D.P. Bhattacharya, Additional Chief Engineer (Civil), M.S.E.B. to give a brief description of the project. Shri D.P. Bhattacharya explained minutely the purpose and nature of the project. He also mentioned the Economic and Social benefits of the local people from the proposed project. He further outlined the cost of the project and the Environmental implications. He stated that the cost of the project i.e. Rs. 275 crore and the total area required will be 337 acre 102 acre is the Forest Land, 232 acre is the barren land and only 3 acre is the orange orchard. But the proposed area will be only 190 acre, whereas the remaining 147 acre



After the speech of the Project Proponent, the Chairman cited Shri J.H. Nengnung, I.R., MPCH to read out the written objection/statements received. Shri J.H. Nengnung informed that the Board has not received any written objections/statements except a letter from the Raid Thangbali, asking the Board to allow one of the members of the Raid Thangbali to be a member of the Environmental Public Hearing Committee, the Chairman informed that notification of members was done as per guidelines.

After the written statement was read out the Chairman further invited Shri C. Budnah, Conservator of Forest (Social Forestry and Environment), Govt. of Meghalaya to give a few words.

The Conservator of Forest said that Environmental Clearance is very important in today's world, so he urged the Public to be free to express their feelings on this project.

After the brief speech of the Conservator of Forest, the Chairman invited the Public Members in the Hearing to give their views, suggestions, comments and objections, if any.

Shri Kein Massar of Lamjorain- Suchen requested the Government to provide Employment to the local people of Suchen and to Establish an office and Power House at Suchen for Employment benefits of the local people. The Additional Chief Engineer answered by saying that an office and Power House will be Established at the site of the Project, that is at Suchen and Employment will be given to the local people.

Shri Deling Massar of Suchen also asked the Government to provide Employment giving first preference to the local people of Suchen. The Chairman said that first preference will be given to the local people who have the required qualifications.

Smt. Bikia Sonar of Bataw and Shri Kein Massar of Suchen, stated that they need protection of their land either Agricultural land, dwelling areas Raid Forest, and other and to give them due compensation if their land are used under the project. The Chairman answered by stating that due compensation will be given to the rightful owners whenever & where ever their land are utilised under the Project.

Smt. Kisser Nynah, the Headman of Suchen village and Iepai village said that their village wants to work together with the Government and the Project officials.

Shri Mir Suchen, suggested that if the M.S.E.B. pay compensation, the claims should be certified by the Dalai, Lyngdoh, Headman and others. The Chairman agreed the statement, by saying that the claim for payment of compensation must be certified by the Dalai, Lyngdoh, Headman and others.

Shri Kelitten Lyngdoh, Shri Ring Mynsaw, Shri William Mureng all from Suchen village supported the views of Shri Mir Suchen which stated that the claim for payment of compensation must be certified by the local Headman, the Dalei, the Lyngdoh and others.

As no further oral views, comments, suggestions and objections were made by the Public Resident. The Chairman gave a concluding remarks, stating that the project will greatly benefit the local people and their descendants. He then invited Shri J.H. Nengnong to give a vote of thanks.

Shri J.H. Nengnong presented the vote of thanks and subsequently the Chairman declared the meeting closed.

(Shri J.H. Nengnong)
Member Secretary, EPHC.

(Shri G. Sudnah)
Member, EPHC

(Shri G. Nyabai)
Member, EPHC

(Shri P. Surang)
Member, EPHC

(Shri H. Tjariang)
Member EPHC

(Shri W.S. Mawlong, IAS)
Chairman, EPHC.

(Shri D.P. Bhattacharya)
Member, EPHC.

(Shri B. Pashieng)
Member, EPHC

(Shri Mir Suchen)
Member EPHC

Chairman,
SUCHEN MULLA

*Encl
Fr
Environment*

BY :
TELETYPE : PARYAVARAN,
NEW DELHI

FROM :
TELEPHONE : 416 1116
TELEX :
TELEX : W-06196 DOF IN
FAX : 4300878

NEW DELHI
भारत सरकार
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
पार्यावरण, वन, वी. वी. कोमलेश्वर
PARYAVARAN BHAVAN, C.O.O. COMPLEX
लोदी रोड, नई दिल्ली-110003
LODHI ROAD, NEW DELHI-110003

No. J-120114/99-1A-1

18.8.99

Subject: Mynidu(Lesika) Hydro-electric project Stage-I, 2x42 MW in Jaluli
hills District, Meghalaya - Site clearance req.

Meghalaya State Electricity Board may refer to their letter No. Nil dated 8th April,
99 and subsequent letter No. M(T)/99-00/T/243/36 dated 13th July 99 on the subject

The Ministry of Environment & Forests has carefully considered your application.
It is noted that the proposal envisages construction of a 39 m high concrete gravity
storage dam diversion dam at a distance 40 Km from Jowai district headquarter on the
river Mynidu. Power house will be located on the right bank of the river operating under
gross head of 334.0 m and average TWH of 234.40 m. 181.16 ha. of land will be
required for the project. Out of this 102 ha. is forest land. No persons will be displaced
due to this project.

The Ministry of Environment and Forests hereby decr. to site clearance as per the
provision of Environmental Impact Assessment Notification, 1994, subject to the strict
compliance of the terms and conditions mentioned below.

- (i) Clearance is only for undertaking investigation of the above mentioned site and
for collection of environmental data for preparation of management plan. This
should not in any way be counted as a commitment for environmental clearance.
- (ii) No civil work, except Kuchha road and temporary sheds, shall be initiated in
anticipation of the final approval of the Ministry. The project proponent should
have to apply for final environmental clearance by submitting complete data
and plans.
- (iii) Forest clearance for acquisition of 102 ha. forest land should be obtained.

5858
19/8/99
Jaluli

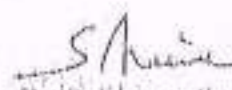
- (v) Ministry of Environment and Forests shall examine the data on its own merit before taking a final view.
- (vi) The final requirements for environmental aspects should be included in the budget of the project for evaluation of the economic feasibility of the project.
- (vii) The clearance from other Ministries/Departments/State agencies as the case may be should be obtained separately.
- (viii) Ministry reserves the right to suggest additional measures for environmental protection during the investigation stage, if found necessary.

S. Bhownik
(Dr. S. Bhownik)
Additional Director

To
The Chairman
Meghalaya State Electricity Board
Lanjingshul, Short round Road
Shillong-793001.
Meghalaya.

Copy to:-

1. Secretary, Ministry of Power, Shram Shakti Bhawan, Raj Marg, New Delhi.
2. Adviser(Power), Planning Commission, Yojana Bhawan, New Delhi.
3. Chief Secretary, Govt. of Meghalaya, Main Secretariat, Shillong, Meghalaya.
4. Chief Engineer (P.D), Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-60.
5. Regional Office, Ministry of Environment & Forests, Shillong.
6. Guard file.


(Dr. S. Bhownik)
Additional Director

Room No. 1031

10th Floor

Phone: 011-4361316

Annex B-4
Np 7-8
17/2/78

CENTRAL ELECTRICITY AUTHORITY
BWA BHAWAN : R.K. PURAM
NEW DELHI - 110066

No. 2/MEB/2/99-PAC/7499-9522

Dated the 20th Sept., 1999

OFFICE MEMORANDUM

Subject: 2x42 (84MW) Hynbdu (Leishka) Stage-1 Hydro Electric Power Station in Meghalaya, Estimated Present Day Cost of Rs.363.1 Crores - Issue of Techno-Economic Clearance.

With Reference to letter No. MTN/96/92(1)/24 dated 20.10.98 from Meghalaya State Electricity Board (MeSEB) submitting generation scheme under Section 29 of the Electricity (Supply) Act, 1948, it is stated that the proposal for establishment of 2x42 MW (84 MW) Power Generating Station proposed by MeSEB for development at Jaintia Hills District in Meghalaya State, as specified in the Detailed Project Report and other documents, papers, books etc. submitted by MeSEB to CEA and various clarifications made in CEA Meeting and specified in the Agenda Note circulated by the Secretary, vide No.2/104/1999-PAC/2750-77 dated 1/4/99, has been considered in the 1999 CEA Meeting held on 8.4.99 at BWA Bhawan, R.K. Puram, New Delhi.

2. In exercise of the powers vested with the Authority as per the BUI direction contained in the Gazette Notification vide F.No. 2(11)/78-EL II dated 23.11.77, issued under Section 4(B) of E(B) Act, 1948, the Central Electricity Authority, accords techno-economic clearance to the aforesaid scheme at an estimated Present Day cost of Rs.363.1 Crores with the stipulation that:

(1) The estimated cost of the scheme shall not exceed the above cost except on account of:

a. Interest during construction and the financing charges on per accruals but not exceeding the amount as indicated at Annex 1.

b. Change in rates of Indian taxes and duties such as excise duty, sales tax, custom duty, work tax and additional taxes and duties levied subsequent to issue of techno-economic clearance.

c. Change in Indian Law resulting in change in cost.

(1) The Abstract of the Estimated Capital Cost approved by CEA is furnished at Annex-1, Summary of Financial Package, as submitted by the MeSEB and considered by



cc. The Member Tech

cc. No. 6088

cc. 32/9/01

cc. The Secretary

195

CEA, the National Water Development Corporation, and the Government of Meghalaya. The project is being implemented under the National Water Development Corporation (NWDC) scheme.

3. This loan agreement is subject to the approval of the following conditions:

1. The Government of Meghalaya shall ensure that the project is implemented in accordance with the terms and conditions of the loan agreement.

2. The Government of Meghalaya shall ensure that the project is implemented in accordance with the terms and conditions of the loan agreement.

3. Compliance with the conditions of the loan agreement shall be a condition for the release of the loan. Any breach of the conditions shall be a breach of the loan agreement and shall be a breach of the loan agreement.

4. The Government of Meghalaya shall ensure that the project is implemented in accordance with the terms and conditions of the loan agreement.

5. The Government of Meghalaya shall ensure that the project is implemented in accordance with the terms and conditions of the loan agreement.

6. The Government of Meghalaya shall ensure that the project is implemented in accordance with the terms and conditions of the loan agreement.

7. The Government of Meghalaya shall ensure that the project is implemented in accordance with the terms and conditions of the loan agreement.

8. The Government of Meghalaya shall ensure that the project is implemented in accordance with the terms and conditions of the loan agreement.

10. The Authority reserves the right to revoke the TEC, if the conditions stipulated in this letter are not complied with to the satisfaction of the Authority.
4. The project shall be completed within a period of 60 months from the date of investment sanction of Planning Commission with Commercial Operating Dates (CODs) of :
 - i) 30 Months for Unit 1
 - ii) 60 Months for Unit 2
5. Three (3) copies of the semi-annual progress reports on physical progress of the scheme and expenditure actually incurred duly certified by statutory auditors shall be submitted to the Authority till the COD of the plant. The project authorities would give free accessibility to the CEA officers and staff to have on the spot assessment of various aspects of the project.
6. The completion cost of the scheme shall be submitted to CEA for approval within a period of 3 months from the COD of the plant.
7. The concurrence of the CEA to the scheme under Section 31 of the Electricity (Supply) Act, 1948 shall be considered by the Authority on submission of firm financial package duly approved by the Govt. of Meghalaya and tying-up of balance inputs/ clearance by the project authority within a period of six months from the date of issue of TEC.

Enclos: As Above.

(Annex I, II & III)

(VIJAY KUMAR)
SECRETARY

1. ✓ Chairman, Meghalaya State Electricity Board, Lumding-shai, Short Round Road, Shillong -1. (Fax 0364-222074)
2. Secretary, Power Department, Govt. of Meghalaya, Shillong.
3. Chief Secretary, Government of Meghalaya, Shillong.
4. Secretary, Ministry of Power, Government of India, Shram Bhakti Bhawan, New Delhi - 110001.
5. Joint Secretary (IPC)/ Hydro, Ministry of Power, Shram Bhakti Bhawan, New Delhi - 110001.
6. Adviser (Energy), Planning Commission, Vidhana Bhawan, New Delhi - 110001.

7. Member (Planning/ Thermal/ Power Systems/ Economic & Commercial/ Grid Operation/ Hydro), CEA, Newa Bhawan, R.K. Puram, New Delhi - 110066.
8. Chief Engineer (HA/ BPA/ FACA/ CBA/ Legal/ JM/ EP/ LD&T/ IRP), CEA, Newa Bhawan, R.K. Puram, New Delhi - 110066.
9. Chief Engineer (PAO), CWC, Newa Bhawan, R.K. Puram, New Delhi - 110066.

pac/tecmynidu



7. Member (Planning/ Thermal/ Power Systems/ Economic & Commercial/ Grid Operation/ Hydro), CEA, Bawa Bhawan, R.K. Puram, New Delhi - 110066.
8. Chief Engineer (NA/ SPA/ E&CO/ TCB/ Legal/ MN/ EP/ LD&T/ TRP), CEA, Bawa Bhawan, R.K. Puram, New Delhi - 110066.
9. Chief Engineer (PAD), EWC, Bawa Bhawan, R.K. Puram, New Delhi - 110066.

pac/tecmynrdd



HYDRA I.B. PROJECT STAGE-1 (2x12 MW) IN MEGHALAYA STATE BY M&S

Abstract of Cost Estimate

Sl. No.	Item	Present Day Cost (Jan. 99 Price Level) (Rs. In Crores)
1.	Civil cost	101.69
2.	E&M Works	103.67
3.	Total cost (without IBC & EC) (1 + 2)	205.36
4.	IBC	75.9
5.	Financing Cost (EC)	1.82
6.	Total cost including IBC & EC (344.45)	383.08

TENTATIVE FINANCIAL PACKAGE

Sl. No.	Source of Finance	Domestic Component INR Crores	% of total outlay
1)	Equity (MoSEB)	100.9	30.0%
2)	Debt		
iii)	Govt. of Meghalaya loan	72.0	20.0%
iv)	PFC Loan	181.5	50.0%

Terms of loan

Source of loan	Interest Rate	Repayment period	Commit fee
Govt. of Meghalaya loan	10.75% pa	12 years	nil
PFC Loan	15.0% pa	12 years	1%

Hard Cost = Rs. 285.4 crores
 IDC = Rs. 75.9 crores
 Financing Cost = Rs. 1.32 crores
 Total = Rs. 363.1 crores



SALIENT FEATURES

1.	Name of the project	Myntdu (Lanka) Hydro Electric Project, Stage-I
2.	Location	Jaintia Hills District, Meghalaya. Latitude - 25° 10' to 25° 17' Longitude - 92° 15' to 92° 30'
3.	i) River ii) Catchment Area	Myntdu 350 sq.km
4.	Installed Capacity	2x42 MW
5.	Annual energy potential in a 90% dependable year	372.69 Gwh
6.	Peak Power	14.15 MW
7.	Time required for completion	5 years
8.	Estimated cost of construction Civil Electrical Total IDC PC Total (including IDC & PC)	Rs. 181.69 crores Rs. 103.67 crores Rs. 285.36 crores Rs. 75.9 crores Rs. 1.42 crores Rs. 363.08 crores
9.	Works - i) Lanka Dam	Concrete Gravity 618.00 m 606.15 m 561.00 m 103.75 m 187.50 m 561.00 m 597.00 m 59.00 m 620.00 m 12000 Cumecs 5 nos. (16.75m X 17.0m)
	Type	
	PRL	
	MDDL	
	Bed level	
	Length i) Overflow ii) Non-overflow	
	Deepest Foundation Level	
	Crest Level	
	Max. Height	
	Top of non-overflow section	
	Spillway Capacity	
	Gate	

ii) HRT Intake

Type
Control
Inlet level

Sub-circular with trash rack
Fixed wheel gate operated through shaft
6.1 m

vii) Low Pressure Tunnel

Type
Length
Diameter
Capacity

Circular
1667 m
3.41 m
10,894 cumecs

viii) Surge Tank

Type
Height
Diameter

Rectangular Chilled
6.1 m
8 m

ix) High Pressure Tunnel

No.
Type
Diameter
Length

Circular, steel lined
2.60 m
229 m

x) Penstock

No.
Diameter
Length

2.60 m
841 m
2.60 m enlarged to 1.9 m after

xi) Power House

Installed capacity
Type
Cross-section
Type of turbine
Rotational speed
Tail water level

2,642 MW
Overground
13.10 m
Francis - V-shaft
500/600 rpm
28.4 m

9
de

Mr. Basu Addl. CE

No 8-33/2000-FC
Government of India
Ministry of Environment & Forests
(FC Division)

Prayagpur Highway, UGC Complex,
Lodhi Road, New Delhi - 110001

Dated 19th June 2001

To
The Secretary (Forests),
Government of Meghalaya
Shillong.

Sub: Diversion of 102.00 ha. of forest land for Myntdu (Leiska) Hydro-electric Project (84 MW) in Jaintia Hills District in favour of M/s Meghalaya State Electricity Board.

Sir,

I am directed to refer to your letter No. Env 6/94/PL153 dated 13th March, 2000 on the above mentioned subject seeking prior approval of the Central Government in accordance with Section-2 of the Forest (Conservation) Act, 1980.

2. After careful consideration of the proposal of the State Government, the Central Government hereby agrees in-principle for diversion of 99.00 ha. of forest land for construction for Myntdu (Leiska) Hydro-electric Project (84 MW) in Jaintia Hills District in favour of M/s Meghalaya State Electricity Board subject to fulfillment of following conditions:-

- (i) The user agency will transfer the cost of compensatory afforestation over degraded forest land twice in extent to the forest area to be diverted (i.e. 99.00 x 2 = 198 ha. degraded forest land) (revised as on date to incorporate existing wage structure) in favour of the State Forest Department and the State Government will place this fund at the disposal of the DFO/DCF responsible for raising and maintaining the compensatory afforestation.
- (ii) The user agency will transfer the cost of both the non-recurring and recurring expenditure of setting up of one forest protection and one anti-poaching unit at the project site.

3. After receipt of the compliance report on the fulfillment of the above condition no. (i) of para 2 from the State Government, formal approval will be issued in this regard under Section-2 of the Forest (Conservation) Act, 1980. Transfer of forest land to the user agency should not be effected by the State Government till formal order approving diversion of forest land are issued by the Central Government.

Yours faithfully,

(H. Jaiswal)

Assistant Inspector General of Forests

Kindly pass on this to Mr. Basu.

Mr. Lakhon.

Environment file
27/9

HTK :
 Telegram : PARYAVARAN,
 NEW DELHI
 PHONE :
 Telex : 436 1827
 Telex : W-88186 DOE IN
 FAX : 4360079

MINISTER
 GOVERNMENT OF INDIA
 MINISTRY OF ENVIRONMENT & FORESTS
 PARYAVARAN BHAVAN, C.G.O. COM
 LODHI ROAD, NEW DELHI-110003

No.J-12011/4/99-1A-1

26.09.2001

The Chairman
 Meghalaya State Electricity Board
 Luth Jingshai, Short Round Road
 Shillong - 793001
 Meghalaya

*Self and / for
 input & from
 27/9*

Subject: - Myntdu (Leshka) Hydroelectric Project (2x42 MW), in Meghalaya -
 Environmental clearance regarding.

Sir,

This has reference to your letter No.) CB/ C/ MISC-23/97/144 dated 7.1.2000, 13.3.2000 and subsequent letter dated 3.7.2001 on the subject.

2. The Ministry of Environment and Forests has carefully considered your application. It has been noted that the project envisages construction of a 39m high concrete gravity storage cum diversion dam. The proposed dam will be located 100 metre downstream of Leshka, the tri-junction of Umshaking, Myntdu and Lathu rivers, at a distance of 40 Kms from Jowai, the district headquarter. Total land requirement is 181.16 ha. Out of this 102 ha. is forestland. Forest clearance has been issued on 19.6.2001. There will be no displacement of population due to this project.

3. The Ministry of Environment and Forests hereby accords environmental clearance as per the provisions of Environmental Impact Assessment notification, 1994 subject to the strict compliance of the terms and conditions mentioned below -

27.9.01
27/9/01

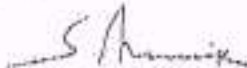
OFFICE OF THE
 Officer on Special Duty (Project)
 M.E.F.B., Shillong-793001
 Diary No. 5-8.7 Date 27-9-01
 File No. P-4

- vi) The Environmental Cell needs to be restructured to make it fully multidisciplinary by including one biologist and chaitman of the village panchayat.
- vii) It is proposed to treat mine water and the Acid Mine Drainage (AMD) with lime before releasing into the streams. Simply treating it with lime will not serve the purpose. AMD contains a number of metal sulphides like Ferrous sulphide (FeS), Zinc sulphide (ZnS), Manganese sulphide, etc. So, AMD can be oxidised to corresponding oxides (FeO , ZnO , MnO_2 , Al_2O_3 etc.) which are hydrolysed to form corresponding hydroxides i.e. $\text{Fe}(\text{OH})_3$, $\text{Al}(\text{OH})_3$ etc. These hydroxides are precipitated out at pH more than 9. These metals are then removed by removing the precipitate; otherwise the soluble metals (like Fe^{++} , Zn^{++} , etc.) will interfere with plant nutrition when such water from tailrace goes for irrigation of agricultural lands. As such AMD should be allowed to undergo the above reaction during treatment.
- viii) Monitoring of grasses in the project area should be done periodically and the existing type should be surveyed & kept on record & intimated to the MCE&F. Conservation of the rare grasses along with other rare species as mentioned in the BSI report, if needed should be done in other adjacent areas around the project area.
- ix) As the animals are expected to move to new habitat within the catchment area of the lake, as suggested by the Chief Wildlife warden, 250 metres from the shore be declared as protecte area where there will be no human activities.
- x) Long-term permanent cultivation may be encouraged and financial support given by MeSE to the villagers so that they do not indulge in shifting cultivation any longer. This will prevent soil erosion and vegetation will ensure moisture retention for the dam.
- xi) To minimise the adverse effects on wildlife, project authorities would ensure that minimum damage is done even during the construction period, taking care to see that remedial measures are taken for any damage done.
- xii) Revised cost estimates of project covering appropriate funds requirements for the proposed management plan for improving water quality should be included in the revised cost and brought it to the notice of CEA.
- xiii) Beside the existing P.H.C. at Pdenrakap village, an additional health infrastructure, a hospital is to be established near the vicinity of the Dam site as proposed in the action plan. The hospital should have all facilities for adequate health care covering emergency casualties, prevention and control of vector borne diseases like malaria, Japanese encephalitis, maternity, child health, obstetrics and of gynaecology etc.

General conditions - B-

- i) Adequate free fuel arrangement should be made to the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented. Fuel depot should be open at the site to provide the fuel (kerosene/wood etc.).
 - ii) Medical facilities as well as recreational facilities should also be provided to the labourers. All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.
 - iii) Restoration of construction area including dumping site of excavated materials at dam site should be ensured by levelling, filling up of burrow pits, landscaping etc. The area should be properly afforested with suitable plantation.
 - iv) Downstream of the dam, flood-zoning approach should be done. No settlement should be allowed within flood zone.
 - v) Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, at Shillong for review.
4. Officials from Regional Office MOEF, Shillong would be monitoring the implementation of environmental safeguards should be given full co-operation, facilities and documents/data by project proponents during their inspection.
5. The responsibility of implementation of environmental safeguards rests fully with the Meghalaya State Electricity Board.
6. In case of change in the scope of the project, project would require a fresh appraisal.
7. The Ministry reserves the right to add additional safeguard measures subsequently if found, necessary and to take action including revoking of the clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in time bound and satisfactory manner.
8. This clearance letter is valid for a period of 5 years from the date of issue of this letter.
9. State Pollution Control Board should display a copy of the clearance letter at the regional office, district industry centre and collector's office/ tehsildar's office for 30 days. They should also send a copy to gram panchayat.
10. The project proponent should advertise in at least in two local newspapers widely circulated in the region around the project site, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and

Copies of clearance letters are available with the State Pollution Control Board may also be Website of the Ministry of Environment and Forests at [http:// envfor.nic.in/](http://envfor.nic.in/). The advert should be made within seven days from the date of issue of the clearance letter and a copy same should be forwarded to the Regional Office of the Ministry of Environment & Forests.


(Dr. S. Bhownik)
Additional Director

Copy to:-

1. Secretary, Ministry of Power, Shram Shakti Bhavan, Rafi Marg, New Delhi.
2. Secretary, Department Of Power, Govt. of Meghalaya, Shillong.
3. Secretary, Department of Environment, Govt. of Meghalaya, Shillong.
4. Adv(ser(Power), Planning Commission, Yojana Bhavan, New Delhi.
5. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhavan, R.K. Puram, New Delhi-66.
6. Regional Office, MOEF, Shillong(NEZ).
7. El Division, MOEF, New Delhi.
8. Guard File

(Dr.S. Bhownik)
Additional Director

MEGHALAYA STATE ELECTRICITY BOARD
BOARD'S SECRETARIAT.

U/O.No.GAP/258/97/Vol.1/152

Dated the 12th June, 2002.

MEMBER (TECH).

CHIEF ACCOUNTS OFFICER.

MESB, U/O.

Sub :- Administrative approval for the construction of
2 X 42 MW Myntdu Leshka H.R. Project in Jaintia
Hills District, Meghalaya.

Enclosed, please find herewith the Agenda
Note and Board's Resolution No.1 dt.29.5.2002 by circulation
for further necessary action from your end.

Action Taken Report may please be sent to
this Office for placing the same in the next meeting of the
Board.

(S.K.S. Nongkynrih)
Joint Secretary.

U/O.No.GAP/258/97/Vol.1/152 (a)

Dated the 12th June/2002

The Chief Engineer (Civil), MESB, Shillong.

(S.K.S. Nongkynrih)
Joint Secretary.

-: RLS :-

AGENDA NOTE/ RESOLUTION BY CIRCULATION FOR APPROVAL BY THE BOAI

Agenda Item No. 1

**ADMINISTRATIVE APPROVAL FOR THE CONSTRUCTION
2 x 42 MW MYNTDU LESHKA HE PROJECT IN JAINTIA III
DISTRICT, MEGHALAYA.**

The Board in its meeting held on 23.6.1997 vide Resolution No. 19 had approved for taking the 3 x 18 MW Myntdu Leshka HEP. The DPR for the same was sent to the CEA, New Delhi for purpose of techno-economic clearance (TEC). After scrutiny of the DPR, the CEA had advised that available Hydro-potential is suitable for 2 x 42 MW. Accordingly, the DPR was prepared and sent to CRA in which the latter has issued the TEC in the month of September 1999.

The Salient Features of the Project are :-

1.	Installed capacity	-	2 x 42 MW
2.	Annual energy generation	-	372.69 MU (Million t)
3.	Estimated cost of construction (1998)	-	Rs.285.36 crores
4.	Cost of the project at the time of completion with interest on loan	-	Rs.363.08 crores
5.	Time required for completion	-	5 years
6.	Cost of generation	-	Rs.1.27 per unit
7.	Gross head	-	334 mts
8.	Height of dam	-	59 mts
9.	Length of tunnel	-	3.66 KM (Dia. 3.4 M)
10.	Catchment area	-	350 Sq. KM.

The Current Status of the Project are :-

1.	Notification under Section 29 (2) of electricity Act 1948	11th Sept.
2.	Submission of revised estimate of Project (2 x 42 MW)	20th Oct.
3.	Public hearing for environmental clearance by State Pollution Control Board on 24.3.1999 in the office of SDO (Civil), Anilaram and on 25th in the office of SDO (Civil), Kiliachial	Notified 23.2.1
4.	Consent of Meghalaya Pollution Control Board	18th June
5.	Site clearance from MOEF	18th Aug.
6.	T.E.C (Techno-Economic Clearance) from CEA	20th Sept.
7.	Submission of Environmental Clearance	7th Jan.
8.	Forest Clearance & recommendation from State Govt.	13th Mar.
9.	Forest Clearance by MOEF	19th Jan.
10.	Environmental Clearance by MOEF	26th Sept.
11.	Date of starting of Project	1st Nov
12.	Status of Works :-	

(A) Road Construction:

(i) 0-6 KM Jaidingshikar to Dam site: Comparative statement of Tender (

have been completed. Works is to be allotted shortly.

(A) 6-11.4 KM - Drainage and cross drainage works: Works on this section has been initiated and expected to be completed before onset of Monsoon. This will facilitate un-hindered movement to and from site even during peak monsoon.

(B) Establishment of Offices:

2. (Two) Divisions created with Hdgrs. at Amalarem, the Office of the EE, MLHEP CD-I has already established at Amalarem from 22nd April, 2002. The Second Division will also start functioning from Amalarem shortly.

(C) Accommodation at Amalarem:

Some buildings belonging to SDO(C) Amalarem have already been occupied after undertaking minor repairs.

(D) Survey:

(i) Dam area:

Detail survey of the Dam area to be submitted to CWC, New Delhi, for calling tender for the same has been completed. Geological mapping from the Geological Survey of India, Shillong is awaited before the same is sent to Delhi.

(ii) Tunnel and Intake:

Survey at the Intake of the tunnel has started. Alignment finalisation of the tunnel will also start shortly.

(iii) Road Survey:

Survey for 6-10 KM - Pdengshkep - Damsite Road has already been completed. Survey for Damsite-Suchem Road has started.

13 **ENGAGEMENT OF CONSULTANTS:** The Board has approved engagement of the following Consultants:

(i) CEA, New Delhi: The Board had approved the engagement of CEA, New Delhi as Consultants for electrical-mechanical (E&M) component of the project at the cost of Rs 150 lakhs.

(ii) CWC, New Delhi: The Board approved the engagement of CWC, New Delhi as Consultants for Civil works component of the project at the cost of 277 lakhs.

14 **LAND ACQUISITION:**

(i) Pdengshkep-Damsite 0-06 KM:

An amount of Rs 46.54 lakhs has been deposited with SDO(C) Amalarem, Sub-Division for payment of land compensation for Acquisition of Pdengshkep-Damsite Road 0-6 KM. Disbursement of compensation is at final stages.

(ii) Dam area:

Land records department have started individual ownership identification of land at reservoir area including the Dam body.

Specific Conditions - A

- i) 2500 ha. degraded catchment area shall be treated within five years at a cost of Rs.26.545 lakhs as proposed. Year wise break up of physical targets of CAT plan is as follows -

Sl.No	Items	1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year
I.	<u>Biological Measures:-1700 ha.</u>	10%	15%	20%	25%	30%
a.	Barren land(100 ha.)	10%	15%	20%	25%	30%
b.	Forest land(400 ha)	10%	15%	20%	25%	30%
c.	Water shed management(200 ha)					
II.	<u>Engineering Measures:-350 ha.</u>					
a.	Benchi Terracing(Control bund)	10%	15%	20%	25%	30%
b.	Nalla bunding and gully plugging-80 Nos.	10%	15%	20%	25%	30%
c.	Brush Dam - 100 Nos.	10%	15%	20%	25%	30%
d.	Check Dam - 5 Nos.	10%	15%	20%	25%	30%
e.	Half Moon Terracing	10%	15%	20%	25%	30%
f.	Stream bank stabilisation -20 Km.	10%	15%	20%	25%	30%
III.	<u>Aeromantic Technologies:-150 ha.</u> (Subtropical fruits tree planting) Orange, lemon, sapota, jack fruit, etc.	10%	15%	20%	25%	30%

An annual report on the achievement of targets vis a vis funds spent should be provided to our regional office.

- ii) Awareness among public as well as the miners through Govt. agencies/NGO's/Local bodies should be created about the ill effects of unscientific coal mining and haphazard dumping.
- iii) Govt./Autonomous Bodies should be persuaded undertake some pilot projects for scientific mining. Successful demonstration will help in promoting scientific mining.
- iv) Dumping area should be identified and proper care should be taken for storage of coal. The dumping yard should have suitable cover to prevent the rainwater from coming into contact with the dumped coal.
- v) Some of the tributaries are carrying water with pH value as low as 3.1. Possibility of extracting sulphuric acid from such water may be explored. If found commercially viable, it will reduce the acidic inflow into the river besides providing employment opportunity.

15. EXPENDITURE:

Ull date (30.4.2002) an amount of Rs.273.47 lakhs has already been spent on Head of Land, Pre-construction, Roads and buildings.

Since the Project is targeted for completion at the end of the 10th Plan considering 60 (six) months gestation period, the need for urgent mobilisation of fund for starting the Project is require be made.

The estimated cost of the Project is as follows :-

Sl. No.	Item	Present Day Co (January '99 Price L (Rs. In Crores)
1.	Civil Cost	181.69
2.	E & M Works	103.67
3.	Total Cost without IDC & FC (1+2)	285.36
4.	IDC	75.9
5.	Financing Cost (FC)	1.82
6.	Total Cost including IDC & FC (3 + 4 + 5)	363.08

For the purpose of resource mobilisation and timely implementation of the project both the Government's and central Government's help is necessary. Accordingly, the works for the current was identified at an estimated cost of approximately Rs.50.00 crores for implementation under Central Pool of Assistance and its works for Rs.20.00 crores was identified under State Plan. The proposal assistance under Central Pool of resources was forwarded to the Government of Meghalaya on 3.10.2001. Further, the State Government vide their letter No. PLR/75/2001/77 dtd. 8.11.2001 requested NEC for inclusion of this project under NEC funding during the Tenth Plan.

The matter is put up before the Board for according administrative approval for the construction of the Project and mobilisation of fund thereof.

Resolution No. 1 Administrative approval for the construction of 2 x 42 MW Myntdu Lesh
(29th May 2002) HE Project in Jaintia Hills District, Meghalaya.

The Members of the Board perused the Agenda Note and decided to accord administrative approval for the construction of 2 x 42 MW Myntdu Lesh HE Project and the proposed mobilisation of fund thereof.

(B.G. Kharkongor)
Chairman

(B.K. Dev Verma)
Commissioner & Secretary, Power Department

(H. Nongstong)
Secretary
Finance Department

(H.C. Bhattacharjee)
Member Technical

(Sutosh Marak)
Member

(Yoly Tarlaug)
Member

P.No.8-33/2000-FC

Government of India

Ministry of Environment & Forests

(FC-Division)

Parvathan Bhawan,
CGO Complex, Lodi Road,
New Delhi-110003.

Dated: 06th May, 2004.

The Secretary,
Forest & Environment Department,
Government of Meghalaya,
Shillong.



Sub: Diversion of 99.00 ha. of forest land for Myntdu (Leiska) Hydroelectric Project in Jaintia Hills district of Meghalaya in favour of M/s. Meghalaya State Electricity Board.

Sir,
I am directed to refer to your letter No. ENV/6/94/P/153, dated 13th March, 2000 and No. PE/73/97/Vol-1/321, dated 08th April, 2004 of the Principal Secretary, Department of Power, Govt. of Meghalaya, on the subject mentioned above seeking prior approval of the Central Government in accordance with Section 2 of the Forest (Conservation) Act, 1980 and to say that the proposal has been examined by the Forest Advisory Committee constituted by the Central Government under Section 3 of the said Act.

After careful consideration of the proposal of the State Government and on the basis of the recommendations of the Committee mentioned above, the Central Government hereby conveys its approval under Section 2 of the Forest (Conservation) Act, 1980 for diversion of 99.00 ha. of forest land for Myntdu (Leiska) Hydroelectric Project in Jaintia Hills district of Meghalaya in favour of M/s. Meghalaya State Electricity Board subject to fulfilment of the following conditions:

1. Legal status of the forest land shall remain unchanged.
2. Compensatory Afforestation shall be raised and maintained over non-forest land identified and handed over to the State Forest Department for this purpose at the project cost.
3. Felling of trees shall be confined to only such areas where it will obstruct project construction and it shall be done under strict supervision of the State Forest Department.
4. The Catchment area shall be treated at the cost of User Agency as per the Catchment Area Treatment Plan.
5. Site for construction of colonies should be selected at such places where minimum felling of trees is involved.
6. Free fuel wood/alternate energy sources shall be provided to the labourers working at the project site so as to avoid any pressure on the forest areas.
7. Water shall be made available free of cost for forestry and allied activities in the vicinity of the project.
8. Green belt, preferably of native species, of adequate width shall be raised around the reservoir at the project cost.
9. The State Government shall issue Notification(s) under Section 4 (or Section 29, as the case may be) of the Indian Forest Act, 1927 (or the corresponding Local Act) to constitute the area of Reservoir (to be created under the project) as RFP within six months w.e.f. the date of issue of this letter.

10. Reclamation of the quarry sites shall be carried out as per the reclamation plan at the project cost under the supervision of the State Forest Department. Reclamation of the quarries shall be completed as early as possible and in no case later than the closure of the project.
11. The dumping area shall be stabilized and reclaimed and plantation of suitable species be carried out over dumping areas at the project-cost under the supervision of the State Forest Department.
12. The User Agency shall ensure that muck does not roll down the slopes. All such areas where muck has rolled down the slopes, shall be rehabilitated at the project-cost under the supervision of the State Forest Department.
13. All efforts shall be made for protection of the environment at the project-cost.
14. No labour camps shall be set up nor any habitation shall be allowed to come up in the forest area.
15. All efforts should be made by the User Agency to avoid any damage to the wildlife found in the area.
16. Steps should be taken to minimize biotic pressure over adjoining/nearby forests.
17. The forest land shall not be used for any purpose other than that specified under the proposal.
18. Any other condition that the State Government or the Chief Conservator of Forests (Central), Regional Office, Shillong, may impose from time to time in the interest of afforestation and protection and improvement of flora and fauna of the area.

Yours faithfully,

(Sandeep Kumar)
Assistant Inspector General of Forests

Copy to:

1. The Principal Chief Conservator of Forests, Meghalaya, Shillong
2. The Nodal Officer, Office of the PCCF, Meghalaya, Shillong
3. The Chief Conservator of Forests (Central), Regional Office, Shillong
4. Regional Office (Hq.), New Delhi
5. The Chairman, Meghalaya State Electricity Board, Shillong
6. Guard File

(Sandeep Kumar)
Assistant Inspector General of Forests



Government of India
Central Electricity Authority
Hydro Engineering & R/M Division
7th Floor (R), Bawa Bhawan,
R.K. Puram, New Delhi - 110066



(ISO : 9001-2000)

No.42/15(MTD(Extn)/HE&RM/2007/201

Dated: 18.01.2007/3

✓ The Member (Technical),
Meghalaya State Electricity Board,
Lumjingshai Short Round Road,
Shillong - 793 001

(Fax No. 0364-2591174)

Subject:- Myntdu Leshka Stage - I Extension Project (1x42).

Sir,

Reference is invited to your letter No. M(Y)/T-327/2006-07/177 dated January 14, 2008 intimating that MeSEB has decided to take up in principle the Myntdu Leshka Stage-I extension project (1x42 MW) subject to technical and financial feasibility.

It is noted that CWC vide their letter No. 2/69/2007-HCD/EA&NE/401 dated January 1, 2008 have conveyed the technical feasibility of the extension project. CWC has been requested vide this office letter of even no. dated January 17, 2008 to verify the additional loss of head under various operation conditions as considered in the proposal and to carry out the transient analysis also.

The modifications/improvement in the intake, surge shaft and tailrace to be suggested by CWC based on above studies, have to be considered while implementing the extension project, Stage-I.

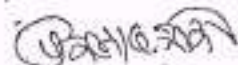
The proposal for installing one unit of 42 MW at Myntdu Leshka Extension Project based on the various parameters and details given in the proposal has been examined and it is considered technically and financially feasible/viable.

This examination of Myntdu Leshka Extension HE Project (1x42 MW) in regard to technical and financial feasibility shall not be considered as according of TEC of CEA.

It is also clarified that the TEC of a hydro project from the Authority (CEA) is required for the hydro projects costing Rs. 500 crore or above.

It is learnt that MeSEB is also planning Myntdu Leshka HE Project Stage-II downstream of Myntdu Leshka HE Project Stage-I and the installed capacity is under finalisation for preparation of D.P.R. by CWC/CEA. Therefore, MeSEB may consider the effect of Myntdu Leshka Stage-I Extension on the power potential of Myntdu Leshka Stage-II while finalising the installed capacity of Myntdu Leshka Stage-II.

Yours faithfully,



(P.S. Agrawal)
Chief Engineer

1. The Chairman, Meghalaya State Electricity Board, Lumjingshal Short Round Road, Shillong (Fax No. 0364 -2591174)
2. The Chief Engineer, Design (E&NE), Central Water Commission, R.K. Puram, New Delhi.
3. The Chief Engineer, (HP&I) - CEA - with a copy of 10 daily discharge data from 1982-83 to 2005-06. It is informed by CWC that the H.R.T. at Myntdu Leshka HE Project, Stage-I can accommodate the discharge for 3 units safely. The power potential studies may please be got done.
4. Shri A.K. Mphanta, Superintending Engineer, Project Monitoring & Liaison Office, Meghalaya State Electricity Board, A-2/149, 1st floor, Safdarjung Enclave, New Delhi.