

GOVERNMENT OF MEGHALAYA
DEPARTMENT OF FORESTS AND ENVIRONMENT
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS
(HoFF): MEGHALAYA



323

No.MFG.16/50/HCLL/Pt.I/ 11, 748

Dated Shillong, the 31st October, 2023.
ISSUED ON

To,

The Secretary
Government of Meghalaya
Forest & Environment Department.

Sub: Proposal for diversion of 4.00 ha. of deemed forest land for limestone mining at Mynkre by Hills Cement Company Limited.

Ref: No. FOR/45/2021/82, dated 20.08.2022.

Sir,

With reference to the State Government letter and subject cited above, I submitting herewith ~~an~~ additional informations as desired by the Ministry of Environment, Forest & Climate Change, Government of India, Integrated regional Office, Shillong as detailed below:

Sl. No.	Particulars	Remarks
1	The State Government may submit a self-contained report as per para 3 B (iii) & (iv) of Ministry's letter dated 27.01.2018.	(ANNEXURE - I)
2	The detail breakup of land requirement submitted in the proposal is for Green Belt - 0.603 ha & Dump Yard - 0.95 ha: whereas others required i.e. quarry area, safety zone, approach road, if any, for proposed diversion of 4.0 ha may be submitted.	(ANNEXURE - II)
3	Status of land use and FC approval and other land identified as 'forest' namely 50% of the plant area of 68.313 ha., 16 ha., & 40 ha. of limestone mine.	(ANNEXURE - III)
4	The date of issue of Letter of Intent (LOI) for grant of mining lease is 16.11.2010. Hence, it validity may be furnished.	(ANNEXURE - IV)
5	Mutation Notification for compensatory afforestation area proposed over non-forest.	(ANNEXURE - V)
6	The calculation of NPV as per latest guidelines of Ministry's letter dated 06.01.2022.	(ANNEXURE - VI)
7	The exact distance of the proposed diversion site from any Protected Area and form ESZ, if any.	(ANNEXURE - VII)
8	Status of Environmental Clearance application.	(ANNEXURE - VIII)
9	Status of Forest Rights Act certificate application.	(ANNEXURE - IX)
10	Employment generation may be submitted in man-days.	(ANNEXURE - X)
11	Mining Plan may be furnished.	(ANNEXURE - XI)
12	Environmental Management Plan.	(ANNEXURE - XII)

This is for kind information and necessary action.

Yours faithfully,

Chief Conservator of Forests
CAMP & FC Act
Meghalaya, Shillong.

Memo No.MFG.16/50/HCLL/Pt.I/ 11, 749

Dated Shillong, the 31st October, 2023.
ISSUED ON

Copy to:-

The Deputy Inspector General of Forest (C), MOEF & CC, IRO, Shillong for kind information with reference to his letter No. 3-MG B 013/2022-SHI/87-88, dated 08.04.2022.

Chief Conservator of Forests
CAMP & FC Act
Meghalaya, Shillong.

MK/-

Sylvan House, Lower Lachumiere
Shillong 793001

Phone: 91 364 2220414
Fax: 91 364 2504068

ANNE
Annexure - 2 287
322

GOVERNMENT OF MEGHALAYA
OFFICE OF THE DIVISIONAL FOREST OFFICER (TERRITORIAL),
JAINTIA HILLS DIVISION: JOWAI.

No JH/HCCL/4.0Ha/2021-22/B/ 1160

Dated-Jowai, the 6th August, 2023.

From: The Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai.

To: M/s. Hills Cement Company Limited,
Mynkre, East Jaintia Hills District.

Sub: *Proposal for diversion of 4.00Ha of deemed forest land for limestone mining
at Mynkre by Hills Cement Company Limited.*

Ref: No.MFG.16/50/HCCL/Pt.I/290 dated Shillong the 11th April, 2023.

Sir,


With reference to the above and as per letter from the Deputy Conservator of Forests (FC Act) mentioned under (copy enclosed), you are hereby directed to pay the quantum of penal Net Present Value (NPV) as per calculation given in Annexure I for further necessary action from this end.

This is for your information and necessary action.


Enclosed: As Above.

Yours faithfully,

Memo. No JH/HCCL/4.0Ha/2021-22/A/ 578
Copy to:


Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai.
Dated-Jowai, the 6th August, 2023.

1. The Deputy Conservator of Forests (FC Act) Meghalaya, Shillong for information.


Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai.

AC

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ANNEXURE I

Calculation of Quantum of Penal Net Present Value.

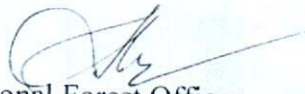
Principal Amount = $4 \times 1595790 \times 5 \text{ times} = 3, 19, 15,800.00$

Interest of 12% Per year = $3, 19, 15,800 \times 12\% = 38, 29,896.00$

Hence, $38, 29,896 \times 7 \text{ years} = 2, 68, 09,272.00$

Penalty (PA + Interest) = $3, 19, 15,800 + 2, 68, 09,272 = 5, 87, 25,072.00$

Therefore, the total amount to be paid Rs. 5, 87, 25,072.00 (Five Crore Eighty Seven Lakhs Twenty Five Thousand Seventy Two) only.


Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai.

13/9/22
14/9/22
ANNEXURE II
259
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GOVERNMENT OF MEGHALAYA
OFFICE OF THE DIVISIONAL FOREST OFFICER,
JAINTIA HILLS TERRITORIAL DIVISION, JOWAI.

No. JH/ACF (P)/2021-22/ 39

Dated- Jowai, the 12th September, 2022.

From: The Assistant Conservator of Forest Officer (P),
Jaintia Hills Territorial Division, Jowai

To: The Divisional Forest Officer,
Jaintia Hills territorial Division, Jowai.

Sub: *Proposal for diversion of 4.00 Ha of deemed forest land for limestone mining at Mynkre by Hills Cement Company Limited.*

Ref: Letter No. JH/HCCL/4.0HA/2021-22/B/901 Dated-Jowai, the 29th August, 2022.

Sir,

With reference to the subject and letter No. mentioned above, I have the honour to inform you that the site inspection for the proposal for diversion of 4.00 Ha of deemed forest land for limestone mining at Mynkre by Hills Cement Company Limited has been done on the 1st September, 2022 in the presence of the representative of the said Company regarding the detail back up submitted in the proposal which is as follows:-

1. The whole area of 4.00 ha has been verified on the ground by verifying the boundary of the whole area which is of 4.00 Ha and it is found that the proposed area for mining is actually 4.00 Ha as per the survey plan map submitted by the Company.
2. The actual mining area as per the surface plan map is about 2.87 Ha, this is a working zone of the mine area.
3. The waste dump yard area is inside the mining area of 4.00 Ha where the total area is about 0.195 Ha and is located in the East boundary between the Pillars No. E & F just adjacent to the safety zone area.
4. The safety zone of the limestone mining area is inside the proposed area of 4.00 Ha which is running parallel all along the boundary which is about 7.5 metres from the outer boundary and total area of the safety zone is 0.59 Ha.
5. The Green Belt areas which is inside the mining area is located at the North-East boundary between the Pillars No. B, A & K just nearby the safety zone area, the others Green Belt area are located at the South and partially West boundary of the mining area between the Pillars No. G, H & I in between the mining area and safety zone.
6. The GPS distance from the NH 6 (i.e Jorabat-Shillong-Jowai-Aizawl Road) is about 400 metres from the nearest boundary pillar G. There is no other P.W.D road/village road nearby the proposed mine area as this area is well inside the Plant of the said Company.
7. The proposed mining area is not functioning at the time of inspection and as per the representative of the M/s Hills Cement Company Limited has been stopped mining. Working since the year 2019.

Office of the D.F.O. (T)
Jaintia Hills Division Jowai
Regd. No. 1242/B
Date. 14/9/22

- 31/7/88
8. GPS Surface Map showing the details areas is enclosed and countersigned by the undersigned after proper verification as supplied by the said company.
 9. Photo of the site is enclosed.

The detail break up of the area is as follows:-

1. Mining working area = 2.87 Ha.
2. Safety zone area = 0.59 Ha.
3. Waste dump area = 0.195 Ha.
4. Green Belt area = 0.345 Ha.

Total = 4Ha.

This is for favour of your kind information and necessary action.

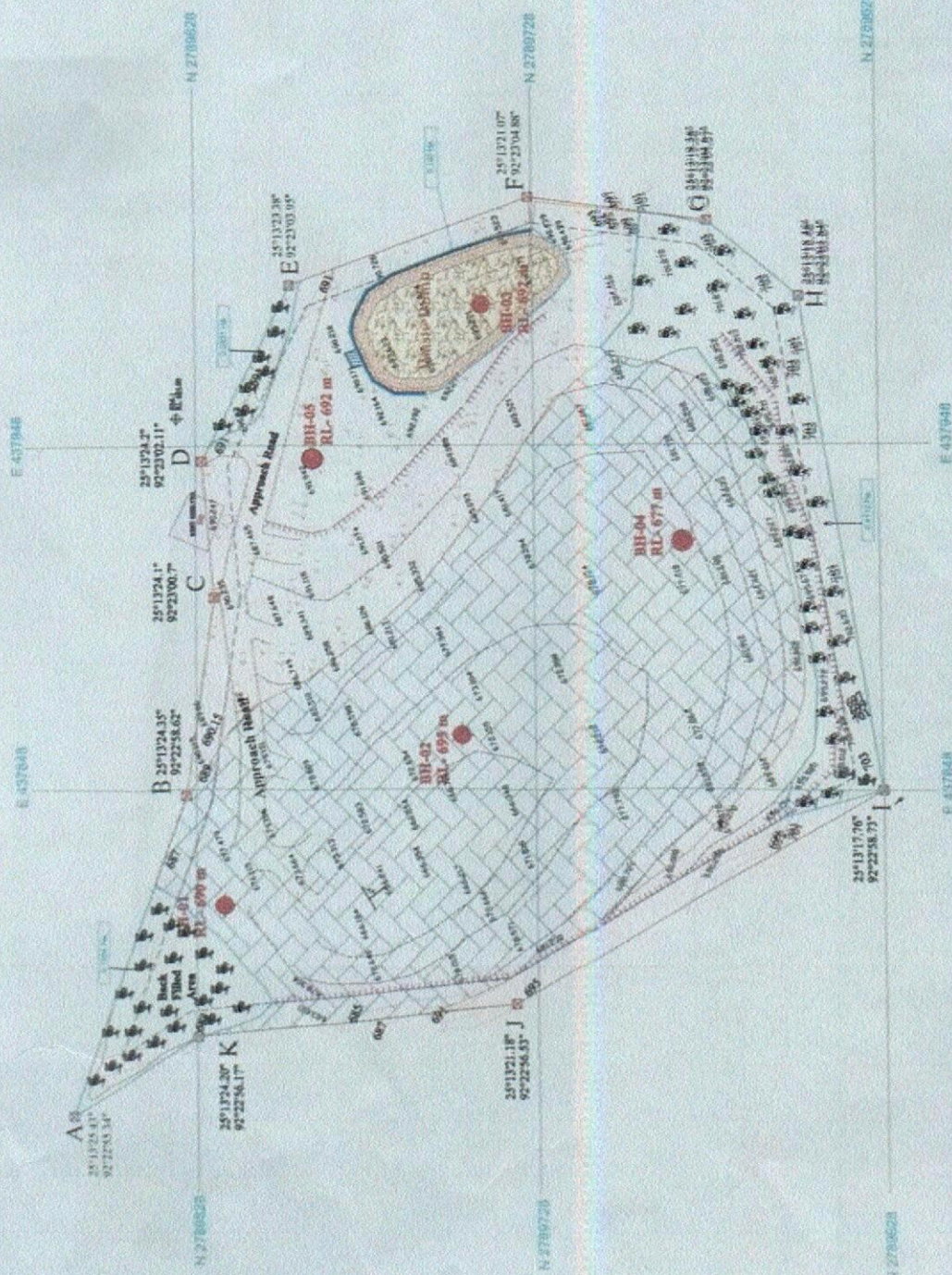
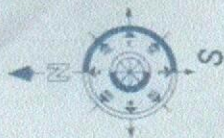
Encls: As stated above.

Yours faithfully,

Assistant Conservator of Forests (P),
Jaintia Hills Territorial Division, Jowai.

SURFACE GEOLOGICAL PLAN

MYNKREE LIMESTONE MINE



S. NO.	PARTICULARS	REF.
1.	LEASE AREA	MA
2.	CONTOUR LEVEL	MA
3.	GRID LINE	MA
4.	WATER ROAD	MA
5.	WORKING PIT	MA
6.	WATER PUMP	MA
7.	WATER FILLED AREA	MA
8.	REST SHELTER	MA
9.	Settlement Pond	MA
10.	Settlement Pond	MA
11.	Settlement Pond	MA
12.	Settlement Pond	MA

PLATE NO. 5

SURFACE GEOLOGICAL PLAN

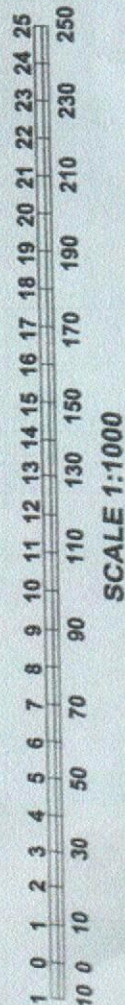
MYNKREE LIMESTONE MINE

LESSEE-M/S HILLS CEMENT COMPANY LTD.

MINE NV - MYNKREE,
POST - LUMSHONG
DISTRICT - EAST JAINTHIA HILLS (MEGHALAYA) SCALE- 1:1000

DATE OF SURVEY 06.05.2022
LEASE AREA- 4.0 Heds.

S.NO.	PARTICULARS	REF.
1.	SOIL WITH BOULDERS	MA
2.	7.5M. BARRIER ZONE	MA
3.	BOREHOLE	MA
4.	DIP & STRIKE	MA
5.	LIME STONE	MA
6.	SAND STONE	MA
7.	UNFC CODE-111	MA
8.	UNFC CODE-211	MA
10.	ULTIMATE PIT LIMIT	MA



SCALE 1:1000



ANNEXURE

Annexure-III

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517Website: www.tajcement.com
CIN: U26942ML2003PLC007295

Letter No.: HCCL/Mines/DFO/2022-23/30

To,
The Divisional Forest Officer (T),
Jaintia Hills Territorial Division, Jowai,
Meghalaya

17.08.2022

Subject:- Our submission to your letter no.- JH/HCCL/4.0 Ha/2021-22/B/853, Dated 16.08.2022. Proposal for diversion of 4.0 ha deemed forest land for limestone mining at mynkree, East Jaintia Hills District by Hills Cement Company Limited.

Reference:- Letter No.-3-MG B 013/2022-SHI/87-88, Dated-08.04.2022.

Dear Sir,

With regard to letter mentioned in the reference and further the information asked by you with respect to Sl. No.(iii), we are furnishing as below:-

1. Plant Area 68.313 Ha:-

JIT Comments- At least half of the nature of land of present site is assessed as forest and the remaining part is assessed as non-forest.

Our Submission:- Our captive limestone mine of 4.0 Ha is also the part of 68.313 Ha plant area. This mine was assessed as forest land by JIT, so we have applied diversion of the land as follows:-

- Mine 4.0 Ha had been applied separately under FC Act, 1980 for diversion of deemed forest land to Non forest land in the Parivesh portal. Proposal No.- FP/ML/MIN/42964/2019.

Land Use Status:- No working/ No operation presently.

FC Status :- Under Process

- Remaining plant area of 64.313 Ha for which more than half of the area .i.e.-32.693 Ha had been applied under FC Act, 1980 for diversion of deemed forest land to Non forest land in the Parivesh portal. Proposal No.- FP/ML/IND/150152/2021.

Land Use Status:- No working/ No operation presently.

FC Status :- Under Process

So instead of half of 68.313 ha area which becomes 34.16 Ha, we have applied two areas of 4.0+ 32.693=36.693 Ha (53.71%) out of 68.313 Ha plant premises area under FC Act, 1980 for diversion of deemed forest land to Non forest land in the Parivesh portal.

2. 16 ha Limestone Mine:-

This area was found to be 6.89 ha only on actual measurement. This area is outside from our 68.313 ha area of plant premises.

JIT Comments- The Nature of land is assessed as Forest.

Office of the DFO (T)
Jaintia Hills Division Jowai

Recd. No. 1058/B

Date 18/8/22

HILLS CEMENT COMPANY LIMITED

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Our Submission:- Due to poor quality of limestone, this area was neither applied for Prospecting License nor it was further worked out by Hills Cement Company Limited.

Land Use Status:- No working/ No operation presently.

FC Status:- Not Applicable

3. 40 ha Limestone Mine:-

This area is outside from our 68.313 ha area of plant premises.

JIT Comments:- *The Nature of land is assessed as Forest.*

Our Submission:- Due to poor quality of limestone, this area was neither applied for Prospecting License nor it was further worked out by Hills Cement Company Limited & the Land was handed over to their respective Local owners.

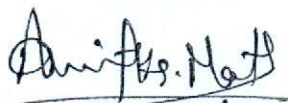
Land Use Status:- No working/ No operation presently.

FC Status:- Not Applicable

Hope you find the desired information in proper order.

For Hills Cement Company Limited,

Yours Faithfully,



(Amit Kumar Mathur)

General Manager-Mines



16/5/22

ANNEXURE

Annexure - IV

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Website: www.tajcement.com

CIN: U26942ML2003PLC007295

Letter No.-HCCL/Mines/DFO-T/2022-23/05

To,

16.05.2022

The Divisional Forest Officer(T),
Jaintia Hills Territorial Division,
Jowai, Meghalaya

Subject:- Proposal for diversion of 4.00 Ha of deemed forest land for limestone mining at Mynkre by Hills Cement Company Limited.

Ref:- Dy. Insp. General of Forests© Letter no.- 3-MG B 013/2022-SHI/87-88,Dated-08.04.2022.
Dy. Cons. of Forests (FC Act) Letter No.- MFG 16/50/HCCL/Pt I/1832, Dated-04.05.2022.

Dear Sir,

With regards to above mentioned subject and reference letters, we are furnishing the required details as below:-

- ii) Plan is attached for the reference. Green belt and Dump yard is marked in the map
- iv) ML grant order Valid up to 2030 attached for the reference
- viii) Environment Clearance is yet to be obtained
- ix) FRA certificate application is attached for the reference
- x) Employment Generation-70 nos., Man-days= 21,000 per year
- xi) Mining Plan Approval is attached for reference
- xii) Environment Management Plan is attached for reference

Submitted for your perusal and onward forwarding please.

Yours Sincerely,

(Amit Kumar Mathur)
General Manager-Mines
Hills Cement Company Ltd.

Office of the D.F.O. (T)
Jaintia Hills Division Jowai

Regd. No. 342/B

Date 16/5/22

HILLS CEMENT COMPANY LIMITED

GOVERNMENT OF MEGHALAYA
MINING AND GEOLOGY DEPARTMENT
SHILLONG

ANNEXURE-1

NO.MG. 66/2009/371

Dated Shillong the 16th November, 2010

From: Shri. C.K. Marak,
Under Secretary to the Government of Meghalaya,
Mining and Geology Department,
Shillong.

To, The Deputy Commissioner,
Jaintia Hills District,
Jowai

Sub: GRANT OF MINING LEASE FOR LIMESTONE OVER AN AREA OF 4.00 HECTARES
AT MYNKRE VILLAGE, JAINTIA HILLS DISTRICT, MEGHALAYA IN FAVOUR OF
M/s HILLS CEMENT COMPANY LTD.

Ref: This department's letter No. MG.66/2009/83, dt. 20-10-2009.

Sir,

I am directed to say that the Governor of Meghalaya is pleased to grant a Mining lease over an area of 4.00 hectares on Limestone to M/s Hills Cement Company Ltd., at Mynkre Village, Jaintia Hills District, for a period of 20 (twenty) years in accordance with the provisions of the Mines and Minerals (Development & Regulation) Act, 1957 and the Mineral Concession Rules, 1960. A draft Mining lease deed under Rule 31 of the said rules containing the terms and conditions both general and local on which the mining lease is granted is forwarded for execution by you and the said Company.

I am also to say that the mining lease should be executed within 6 (six) months from the date of issue of this letter and if it is not executed within this period due to any default on the part of applicant, the state Government may revoke the order granting the lease and in that event, application fee and preliminary expenses deposited by the applicant shall be forfeited to the State Government. The Mining lease should be registered after execution. As required under Rule 32 of the Mineral Concession Rules, 1960 the applicant shall before the mining lease is executed, deposit an amount of Rs.10,000/- (Rupees Ten Thousand) only as security for due observance of the terms and conditions of the lease. The security deposit should be in the form of a "Term Deposit Receipt" at any Nationalized/ Recognized Bank pledged in favour of Director of Mineral Resources, Meghalaya, Shillong.

I am to request you to take action on the following points before execution of mining lease:-

- (a) The date of execution from when the mining lease will come into force should be mentioned in the blank space at Para-1 and 4 preamble of the draft lease.
- (b) The blank spaces in part-1 of the draft lease duly filled in regarding the situation and location of the area are to be verified. The boundaries of the area have been filled in on the basis of the description in the application for mining lease submitted by the applicant.
- (c) The map or plan showing the location of the lease area should be annexed to each copy of the lease deed.

As required under Rule 27(1) (d) of the Mineral Concession Rules, 1960, you are authorized to fix the rate of surface rent per hectare per annum and the water rate per hectare per annum and to fill up the blank spaces under Clause 4 of Part-V.

Cont... Pg2/-

Deputy Commissioner
Office Jowai

Borkin

I am also to say that the lessee should demarcate the boundaries of the mining lease area within a period of 1 (one) month from the date of execution of the mining lease and the Director of Mineral Resources should verify the boundaries before the lessee commence mining operation.

The Lessee should endeavor to protect the environment by taking measures for reclamation of the land by planting trees and other natural vegetation.

The lessee should ensure that mining operation for limestone in the lease area should be conducted in accordance with the mining plan approved by the Controller General, Indian Bureau of Mines, Govt. of India as provided under Rule 22 A of the Mineral Concession Rules, 1960.

The amount of anticipated royalty for the purpose of stamp duty for registration of mining lease is Rs.50,02,263/- (Rupees Fifty Lacs Two Thousand Two Hundred Sixty Three only) per annum. The amount has been determined on the basis of the estimated annual production for a period of 5 (five) years as furnished in the mining plan at the current rate of royalty on limestone. The blank space in clause 9 of part IX of the draft lease deed has been filled in accordingly.

I am further to say that the copies of mining lease duly executed should be furnished to the Controller General, Indian Bureau of Mines, Nagpur, Director General of Mines Safety, Dhanbad and the Director of Mineral Resources, Meghalaya, Shillong as well as to this Department for records.

Yours faithfully,



Under Secretary to the Government of Meghalaya,
Mining and Geology Department,
Meghalaya..... Shillong.


MEMO NO. MG 66/2009/37.1-A,

Dated: Shillong, the 16th November 2010

Copy forwarded to:

1. The Section officer, Ministry of Mines, Govt. of India, Shastri Bhavan, New Delhi for Information.
2. The Controller General, IBM, Nagpur.
3. The Director General of Mines Safety, Dhanbad.
4. The Private Secretary to Chief Minister, for kind information of Chief Minister.
5. The Private Secretary to Chief Secretary, Govt. of Meghalaya, Shillong.
6. The Private Secretary to Minister, Mining and Geology Department, Shillong.
7. The Private Secretary to Minister, Industries Department, Shillong.
8. The Private Secretary to Minister, Forest and Environment Department, Shillong.
9. The Director of Mineral Resources, Meghalaya Shillong.
10. M/s Hills Cement Company Ltd., Mynkre Village, 116 KM stone NH 44, Jaintia Hills District.

By order Etc.,



Under Secretary to the Government of Meghalaya,
Mining and Geology Department,
Meghalaya, Shillong.

SE/CE
S/C

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ANNEXURE - V

Website: www.tajcement.com
CIN: U26942ML2003PLC007295

**(Point No.-2) Status of Mutation/ Notification for
Compensatory Afforestation area proposed over Non-Forest**

Compensatory Afforestation land- 4 ha is situated at Saipung, Moulhoi, East Jaintia Hills District spread area over non-forest Land as applied under Forest Conservation Act, 1980 in the Parivesh.

We have not done mutation of the Land because it has been purchased by the company in the name of the Local Director of the Hills Cement Company Limited- Mr. Thomas Nongtdu.

(Amit Kumar Mathur)
General Manager-Mines

Encl:- Notification by JHADC, Jowai.

HILLS CEMENT COMPANY LIMITED

CORPORATE OFFICE: "SHIVAM COMPLEX", Bharalumukh, A.T. Road, Guwahati, Assam, PIN-781009 | Ph: (0361)2735527/52 E: hr@hccl.in, info@hccl.in
REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone(NH 44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, PIN-793200

317
211

**OFFICE OF THE JAINTIA HILLS AUTONOMOUS DISTRICT
COUNCIL: JOWAI.**

NOTIFICATION

DATED JOWAI THE _____ 2019.

NO JHADC/FOR/99/2019:- It is hereby notified for general information that the place called "Lungipuk Mual" located at Mualhoi within Saipung Sirdarship which more fully described in the schedule below is settled and registered with effect from the date of this notification for the registration of the said **Degraded forest** Land. The forest settle and registered by shall be managed and control according to the United Khasi Jaintia Hills Autonomous District Council (Management and Control of Forest) Rules 1960, or any other rules as may be framed by the Executive Committee from time to time and subject to the following terms and conditions.

1. No trees shall be felled or removed except with the prior permission of the Chief Forest Officer provided that such timber is required for any benefit public purposes under taken by the villagers.
2. The villagers shall have to take up or undertake every year fire protection measures by cutting fire line etc.
3. The villagers shall have no further claim for extension in the adjacent part of Un-classed forest.

Schedule of Forest

Name "Degraded Forest land" at Lungipuk Mual

Boundaring:

North: Khuailang Dung, Mankhongdung.

East: Sinidung

South: Zongbi Dung, Saibual Dung.

West: Zongbi Dung

Area: - 85.27ha

Chief Forest Officer
Jaintia Hills Autonomous District Council
Jowai.

Dated Jowai the _____ 2019

Memo.No.JHADC/FOR/99/2019.

Copy to:

1. Saipung Sirdarship.
2. Waheh Shnong Mualhoi village
3. Shri. Thomas Nongtdu Byndihati.
4. Assistant Forest Officer I/C Khliehriat Range.

875
510

GPS SURVEY MAP OF
DEGRADED FOREST LAND OF SHRI. THOMAS NONGTUDU BYNDIHATI
AT A PLACE CALLED LUNGIPUK MUAL LOCATED AT MUALHOI
SAIPUNG SIRDARSHIP

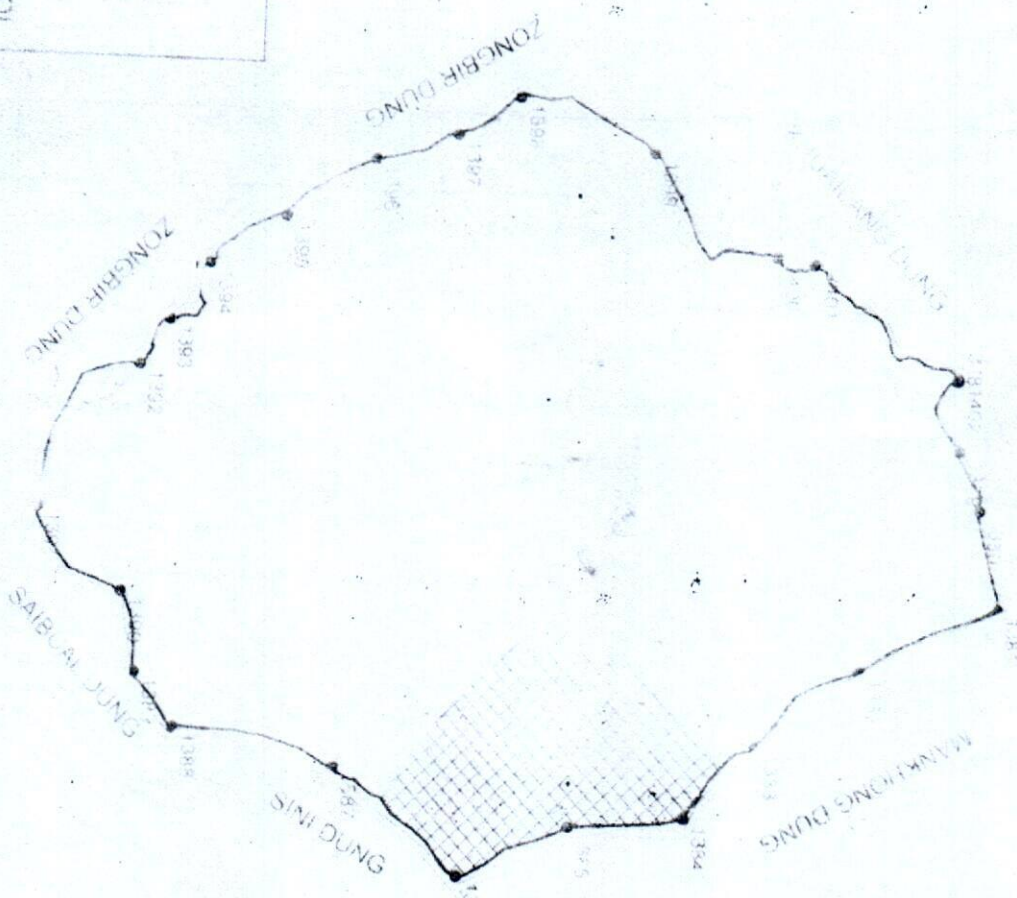
AREA : 85.27 Ha

WAYPOINTS

1378	N 25° 17' 20.1"	E 92° 43' 10.3"
1379	N 25° 17' 20.3"	E 92° 43' 13.6"
1380	N 25° 17' 21.4"	E 92° 43' 15.3"
1381	N 25° 17' 22.4"	E 92° 43' 21.0"
1382	N 25° 17' 16.4"	E 92° 43' 24.2"
1383	N 25° 17' 11.9"	E 92° 43' 28.0"
1384	N 25° 17' 08.9"	E 92° 43' 31.5"
1385	N 25° 17' 03.7"	E 92° 43' 32.1"
1386	N 25° 16' 58.7"	E 92° 43' 34.8"
1387	N 25° 16' 53.0"	E 92° 43' 29.8"
1388	N 25° 16' 45.8"	E 92° 43' 28.2"
1389	N 25° 16' 44.0"	E 92° 43' 25.7"
1390	N 25° 16' 43.2"	E 92° 43' 21.9"
1391	N 25° 16' 39.2"	E 92° 43' 18.0"
1392	N 25° 16' 43.6"	E 92° 43' 11.1"
1393	N 25° 16' 44.8"	E 92° 43' 08.8"
1394	N 25° 16' 46.5"	E 92° 43' 06.1"
1395	N 25° 16' 49.8"	E 92° 43' 03.8"
1396	N 25° 16' 53.6"	E 92° 43' 00.9"
1397	N 25° 16' 57.3"	E 92° 42' 59.6"
1398	N 25° 17' 00.1"	E 92° 42' 57.7"
1399	N 25° 17' 06.2"	E 92° 43' 00.1"
1400	N 25° 17' 11.9"	E 92° 43' 04.7"
1401	N 25° 17' 13.6"	E 92° 43' 05.0"
1402	N 25° 17' 20.2"	E 92° 43' 10.2"

Legend

- BOUNDARY LINE
- WAYPOINTS
- caddy field
- LAND OF PRESBYTERIAN CHURCH MUALHOI



SURVEYED BY

0 70 140 280 420 560
Meters
1 centimeter = 100 meters

315
309

HILLS CEMENT COMPANY LIMITED
DETAILS OF DIRECTORS OF HILLS CEMENT COMPANY LIMITED

Sl No.	NAME	Fathers Name	PAN	DIN	DOB	ADDRESS
1	BASANT KUMAR MITTAL	SurajBhan Mittal	ACXPM6340G	00290530	19/12/1958	Chawalpatty, Fancy Bazar, Guwahati-781001, Assam
2	NIKHIL MITTAL	BASANT KUMAR MITTAL	BLUPM3662A	03585491	11/07/1992	Chawalpatty, Fancy Bazar, Guwahati-781001, Assam
3	KUNAL MITTAL	Mahendra Mittal	ATWPM0381M	02659088	14/06/1988	Chawalpatty, M.S. Road, Fancy Bazar, Guwahati-781001, Assam
4	THOMAS NONGTUDU (Local Director)	Bin Shylla	ADOPN3789J	00531728	04/03/1962	Byndihat, Jaintia Hills- Jowai Meghalaya- 793200
5	Saurav Bansal (Independent Director)	Ramesh Bansal	BTRPB0700R	07555602	18/11/1993	KD TOWER, H/N12,F/12B, BLOCK A, BANGAON INCOME TAX COLONY ROAD, Beltola, Guwahati-781028.
6	Kamal Agarwala (Independent Director)	Deoraj Agarwala	AJWPA7006K	08168681	01/08/1987	SHAKUNTALA ENCLAVE, KRC ROAD, NARAYAN NAGAR, KUMARPARA, GUWAHATI-781009
7	Nandita Basak (Women Director)	GOPINATH BASAK	ATGPB4800L	8192939	10/09/1986	C/O BIJAY KUMAR DEY, J B COMPLEX, SLUICE GATE, J P AGARWALA ROAD, PO/PS BHARALUMUKH, GUWAHATI, ASSAM-781009

Annexure - VI

269
208

**GOVERNMENT OF MEGHALAYA
OFFICE OF THE DIVISIONAL FOREST OFFICER (TERRITORIAL),
JAINTIA HILLS DIVISION: JOWAI.**

No JH/HCCL/4.0Ha/2021-22/B/ 883

Dated-Jowai, the 24th January, 2023.

From: The Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai.

To: ✓ The Deputy Conservator of Forests (FC Act),
Meghalaya: Shillong.

Sub: *Proposal for diversion of deemed forest land for limestone mining at Mynkre by
Hills Cement Company Limited.*

Ref: No.MFG.16/50/HCCL/Pt.I/12,948 dated Shillong the 8th December, 2022.

Madam,

With reference to the above and in compliance to your letter as stated under, I am to re-submit the details of calculation of NPV as per submission of proposal at Form A - Part II and specifying the eco-class and forest type in Annexure I.


The wrong calculation of NPV from this end is highly regretted.

This is for favour of your kind information and necessary action.

Enclosed: As above.



Yours faithfully,


Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai.

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ANNEXURE - I

The Calculation for NPV (Net Present Value) in lieu of Diversion of 4.00Ha of deemed forest land for limestone mining at Mynkre by Hills Cement Company Limited.

The Details on Payment of NPV:

Sl. No.	Details of Proposal	Location	Area (Ha)	Eco-Class	Type of Forest	NPV Rate
1	Diversion of 4.00Ha of deemed forest land for limestone mining at Mynkre by Hills Cement Company Limited	Mynkre	4.00Ha	Class I	Tropical Semi Evergreen Forests	@15,95,790/-(4 x 1595790)=63,83,160.00

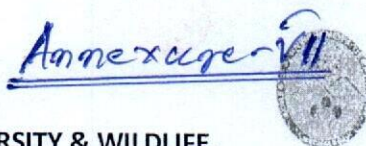
(Rupees Sixty Three Lakh Eighty Three Thousand One Hundred Sixty) only.


Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai.



GOVERNMENT OF MEGHALAYA
OFFICE OF

THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS, BIODIVERSITY & WILDLIFE,
CHIEF WILDLIFE WARDEN, MEGHALAYA.



222
502

No. FWC/G/278/Pt-II (B)/1894

Dated Shillong, the 17th June 2022

To,

✓ The Chief Conservator of Forests,
(Forest Conservation & CAMPA),
Meghalaya, Shillong.

Sub: Proposal for diversion of 4.00 ha of deemed forest land for limestone mining at
Mynkre by Hills Cement Company Limited.

Ref: No. MFG.16/50/HCCCL/Pt.I/1830 dated 04.05.2022.

Sir,

With reference to the letter under reference and subject cited above, I am directed to inform you that as per the maps/Geo-coordinates generated for the proposed mining site of Hills Cement Company Limited, the distance from proposed site to Narpuh Wildlife Sanctuary is 9.08 km and 8.01 km from its Eco-Sensitive Zone. A copy of the same is also enclosed for favour of your kind information and necessary action.

Encl: as stated above



Yours faithfully,

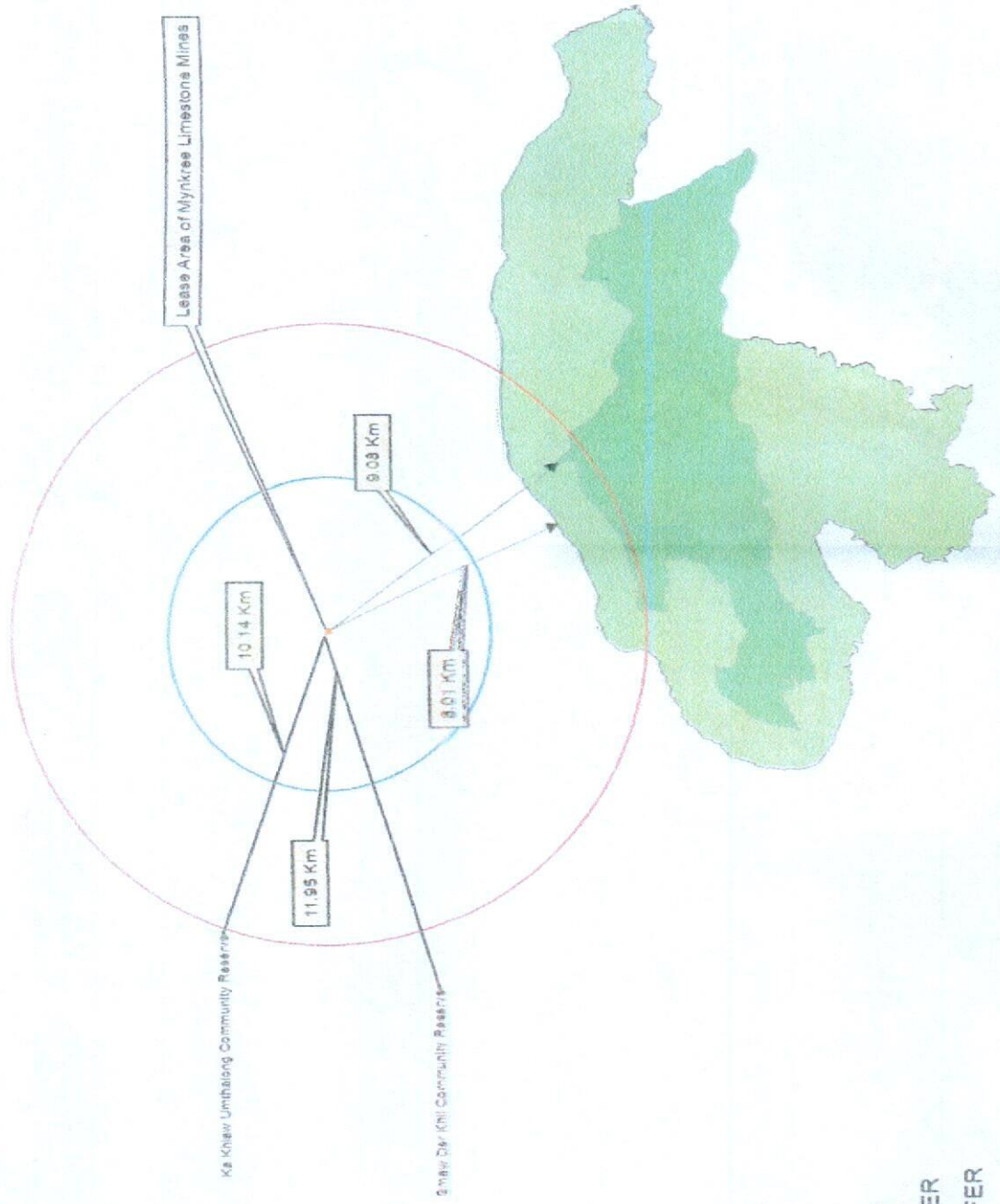
(P. R. Marak, IFS),

Chief Conservator of Forests (Wildlife),
Meghalaya, Shillong.



985
158
985

MAP SHOWING THE DISTANCE OF THE PROPOSED
SITE AT MYNKRE BY HILL CEMENT COMPANY LIMITED LOCATED AT KHLIEHRIAT, EAST JAINTIA HILLS
DISTRICT OF MEGHALAYA FROM THE ECO SENSITIVE ZONE OF NARPUH WILDLIFE SANCTUARY



Legend

- Mining Area
- 5 km BUFFER
- 10 km BUFFER
- Community Reserve
- NARPUH_WILDLIFE_SANCTUARY
- NARPUH_ECOSENSITIVE_ZONE

1:150,000





UNDERTAKING

(viii) Status of Environmental Clearance Application :-

Mynkree Limestone Mines of an area of 4 Ha started as on 06.04.2011. As this mine is below 5 Ha, no environmental clearance was required at that time. Neither had we got any prior notice from MOEF nor from state government on this concern. We had prepared & obtained Mining plan duly approved from Indian Bureau of Mines, Guwahati for the said mine.

Later on JIT formed in Meghalaya and after subsequent visit in this this area they declared our mines as forest land. To procure the forest clearance we have already progressed in Land diversion from Forest to Non Forest under FC Act. After obtaining forest clearance from forest department, Meghalaya, we have to prepare again the Mining Plan and get it approved from Indian Bureau of Mines, Guwahati. After that only we can apply for Environment Clearance of our Mines.

(Authorized Signatory)
HILLS CEMENT CO. LTD.

HILLS CEMENT COMPANY LIMITED

Letter No.: HCCL/Mines/DC/2020-21/161

Date: 30/03/2021

To

The Deputy Commissioner
Khliehriat,
East Jaintia Hills District,
Meghalaya.

Subject: FRA Certificate for an area of 4.0 Ha of Mynkree Limestone Mines of M/s Hills Cement Company Limited applied under FC Act.

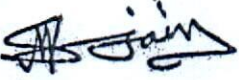
Dear Sir,

This is to inform your good self that we have applied online for diversion of forest land of 4.0 Ha of Mynkree Limestone Mines of M/s Hills Cement Company Limited under FC Act owned by our Local Director, Shri Thomas Nongtudu. In this process we need to submit FRA certificate in Annexure -II as per the MoEF letter No. 11-9/98-FC (pt.) dated 5th July, 2013.

The copy of the above referred Annexure-II is enclosed. Kindly issue us the said certificate and oblige.

Thanking you,

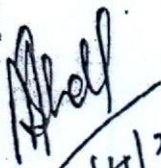
For, Hills Cement Company Limited


(Mahesh Kumar Jain)
Vice President - Mines
Hills Cement Co. Ltd.
Meghalaya - 793200



D.C. Office
East Jaintia Hills District
Khliehriat

Receipt No _____
Date _____


7/7/21

HILLS CEMENT COMPANY LTD.

CIN-U26942ML2003 PLC007295, Website-www.tajcement.com

CORPORATE OFFICE: "SHIVAM COMPLEX", Bharalumukh, A.T. Road, Guwahati - 781009, Ph.: (0361) 2735552, 2735527,
email: hr@hccl.in, info@hccl.in, headoffice@tajcement.com

REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone, NH-44, Sub Div.: Khliehriat, Dist.: East Jaintia Hills, Meghalaya - 793200, Email: hillsproject@gmail.com



ANNEXURE - III
Annexure - X

30/5/24

Website: www.tajcement.com
CIN: U26942ML2003PLC007295

(Point No.-3)- Employment Generation in Man Days

No. of Population benefitted

There are about 100 persons near about in the area. Considering 5 members in a family, there will be about 20 families will be benefitted from the project. Assuming an amount of Rs. 2400 per year benefit to each family. The total benefit for 20 years will be :-

$$=2400*20*20$$

$$=9.60 \text{ Lakhs}$$

Employment Potential

The total employment including Management and work force will be nearly 20 nos. and taking average annual emoluments for 20 years @ Rs. 4.00 Lakhs per annum, it will be

$$=4.0 \text{ Lakhs} * 20 * 20$$

$$=1600 \text{ Lakhs}$$

Cost of acquisition of facilities on non- forest land wherever feasible

Cost of acquiring private land of

$$4.00 \text{ Hect. @ Rs. 1.00 Lakhs/hect.} = 4 * 1 \text{ lakh} = 4.00 \text{ Lakhs}$$

Place: Mynkre, E.J. Hills, Meghalaya

Date: 08/05/2023

(Amit Kumar Mathur)
General Manager- Mines

HILLS CEMENT COMPANY LIMITED



3/8/23

3/8/23

ANNEXURE - IV

242
501

Website: www.tajcement.com
CIN: U26942ML2003PLC007295

Ref. HCCL/Mines/DFO (T)/EMP/2023-24/35

Dates: 10.07.2023

To,

The Divisional Forest Officer (T)
Jaintia Hills Territorial Division, Jowai,
Department of Forest and Environment,
Meghalaya.

Subject: O.E. Clearance of Environmental Management Plan over an area of collect for Mynkree Limestone Mine of M/s Hills Cement Company Limited, located in Mynkree village, Sub Division Kalliehrat, East Jaintia Hills District, Meghalaya.

Reference No. MFC 1875, HCCL/PI 14624 Dated Shillong, 04 July 2023, from DFO (T) Act) to DFO (T) Jowai.

Respected Sir,

With respect to the subject & reference cited above, We are submitting the Environmental Management Plan for Mynkree Limestone Mine of M/s Hills Cement Company Limited as per the above reference letter. (Point No. 1)

This is for your kind information and acknowledgement.

Thanking You,

Yours faithfully,
For Hills Cement Company Limited

Amit Kumar Mishra
General Manager
Mynkree Limestone Mine

Office of the D.F.O. (T)
Jaintia Hills Division Jowai

Regd. No. 902/B

Date 4/8/23

Encl:

1. Environmental Management Plan

ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Introduction:

An Environmental Management Plan (EMP) is a site-specific plan developed to ensure that all necessary measures are identified and implemented in order to protect the environment and comply with environmental legislation. The Environment Management Plan (EMP) is required to ensure sustainable development in the study area. The Environmental Management Plan (EMP) covers the various mitigation measures proposed, their implementation and monitoring for ensuring their effectiveness for pollution control. At the outset it describes the institutional arrangement proposed for implementation, monitoring and management of environment control measures.

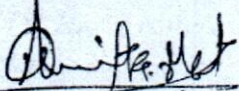
The environment management plan has been developed with a view to bring down the levels of impacts during proposed mining activity. In each of the areas of impact, measures have to be taken to reduce potentially significant adverse impacts and where these are beneficial in nature, such impacts are to be enhanced/ augmented so that the overall adverse impacts are reduced to lower levels as much as possible. Anticipated impacts and the mitigation measures to be taken for each of the environmental component areas are detailed below.

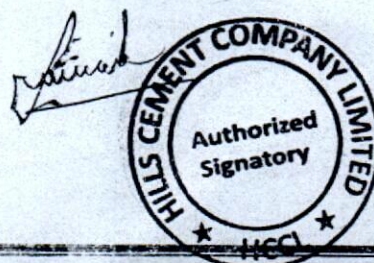
Description of the Project:

The proposal is for mining of limestone Mynkree Limestone mine of M/s Hill Cement Company Limited (HCCL) located at Village Mynkree, PS- Khlieriat, Narpuh Elaka, District- East Jaintia Hills, Meghalaya. The mining will be done in opencast method over an area of 4.0 ha. The applicant M/s Hill Cement Company Limited (HCCL) a company registered under Companies Act, 1956. Sri Amit Mathur, General Manager-Mine of Hill Cement Company Limited is the authorized signatory. Limestone from this mine is proposed to be supplied to the cement plant of M/s Hill Cement Company Limited located at Village: Mynkree,, PO: Lumshnong, District- East Jaintia Hills, Meghalaya at a distance of 0.7 km (by road) from the mine site.

Anticipated Environmental Impacts & Mitigation Measures:

Prediction of impacts is the most important component in the Environmental Impact Assessment studies. Several scientific techniques and methodologies are available to predict impacts of mining and developmental activities on physical, ecological and socio-economic environments. Such predictions are superimposed over the baseline (pre-project) status of environmental quality to derive the ultimate (post-project) scenario of environmental conditions. The prediction of impacts helps to minimize the adverse impacts on environmental quality during pre-and post-project execution. Generally, the environmental impacts can be categorized as either primary or secondary. Primary impacts are those, which are attributed directly by the project and secondary impacts are those, which are indirectly induced and typically include the associated investment and changed patterns of social and economic activities by the proposed actions.


Mines Manager
Mynkree Limestone Deposit
Hills Cement Company LTD



ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

For the proposed project, the impact assessment will be performed both during development as well as operation phases. Considering this, identifications of interactions between activities and environmental receptors have been made which are as under:

- Identification of potentially significant environmental impacts.

Based on this preliminary identification, environmental indices that are likely to be impacted due to the project are:

- Land use/Land cover: site preparation and construction/development.
- Air quality: Dust generation during construction/development, vehicle movement, loading/unloading, mining process, transportation, DG set, etc.
- Noise: Vehicle movement and operation of DG set, mining process, loading/unloading
- Water: Disposal of domestic wastewater followed by soak pit.
- Soil: Excavation activity and soil contamination.
- Storage and handling of solid and hazardous waste.
- Ecology and Biodiversity: clearance of vegetation during construction and emission from operational activities
- Socio-Economic: positive impact due to creation of jobs and increase in indirect income.
- Hydrology & Geology- Change in natural contours of the area.
- Occupational health, community Health and safety: Occupational risk during various activities associated with mining.

The magnitude of the proposed mining activity is not likely to create any serious impacts on the existing environmental set up of the area. However, the likely impacts of the proposed mining and allied activities on the various environmental parameters are discussed as follows:

Potential Impact during Construction Phase:

The project is located 0.7 Km away from the cement plant of M/s Hill Cement Company Limited (HCCL). The rest shelters and bio-toilets for workers at the lease area will be constructed. There is no specific construction phase, hence potential impact during the operation phase has been studied.

Potential Impact during Operation Phase:

The mining and allied activities in the proposed project area have influence on the above environmental attributes. These activities include:

Development of quarry at mine site by opencast mining method.

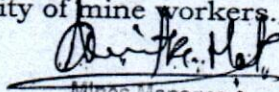
Excavation.

Drilling & Blasting.

Operation of machineries & equipment's. Loading, unloading and Transportation.

Dumping of OB/subgrade material within the lease area. Development of road.

Daily activity of mine workers.


Mines Manager
Mynkree Limestone Deposit
Hills Cement Company LTD



ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

The potential impact and mitigation measures during the operation of mining are discussed below for each parameter:

Land Use: Potential Impacts & Mitigation

Land Environment

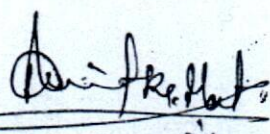
Mine lease encompasses a total area of 4.0 ha. Mining shall be opencast mechanized with drilling and blasting.

Land-use: Entire lease area of 4.0 ha. fall within scrub land. Topographically, the existing target area is a small flat shaped mound (fallow land) surrounded by uncultivated land. No known agricultural product grows within the target area or its surroundings. There is no stated deterioration in the quality of surrounding agricultural land outside the target area in terms of fertility or yield of crops.

Stage wise Land Use and Reclamation Area.

As per Last approved mining plan 2020-21 to 2024-25

Sr. no.	Land Use category	Pre operational area (Present) Ha.	Operational area (at the end of 2024-25) Ha.	Post operation alarea (at the end of lease period) Ha.
1	Overburden dump	0.1	-	-
2	Excavation	2.6	3.3	3.3
3	Mine road etc.	0.1	0.017	0.017
4	Infrastructure	0.0	0.0	0.0
5	Mineral storage (subgrade/mineral)	0.0	0.0	0.0
6	Crusher & screen	0.0	0.0	0.0
7	Total used area	2.8	3.317	3.317
8	Undisturbed area	1.1	0.683	0.683
9	Total lease area	4.0	4.0	4.0
10	Backfilled area	0.1	0.42	0.55
11	Plantation /Greenbelt	0.0	0.593	1.32


Mines Manager
Mynkree Limstone Deposit
Hills Cement Company LTD



ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Anticipated Impact & mitigation measures on Land Use

Activity	Aspect	Impact	Major/ Minor/ Negligible	Mitigation
Excavation, breaking, dislodging of rocks	Clearance of vegetation	The vegetation will be cleared which will change the landform.	Major	At Conceptual stage: Plantation over the mined out benches will be carried out.
	Dust generation due to mining causes dust cover problems on the nearby vegetation.	A quarry will get formed due to development of mining in place of undulating areas. - Degradation of land	Major	As per approved mine plan the total excavated area will be 3.3 ha. The entire mined out area will be reclaimed by plantation at the end of lease period.
	Development of quarry at mine site will cause a change of natural contour level.	Depletion of natural resources.		It is proposed to carry out an afforestation programme during the proposed mining period along the Block boundary conforming to the safety zone to restore the eco- balance and also to increase the greenery of the Block area.
				3116 no of plants shall be planted along the safety zone. In addition, 4200 plants will also be planted in mined out benches over an area of 3.0 Ha at the end of the conceptual period.

[Signature]

Mines Manager
Mynkree Limestone Deposit
Hills Cement Company LTD



29/6/2014

ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Hydrology & geology: Potential Impacts & Mitigation

Hydro-geology of the area

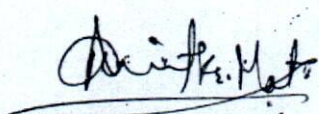
Hydro-geologically, the Jaintia Hills district can be divided into three units namely consolidated, semi-consolidated and unconsolidated formations. Consolidated formations comprise of the oldest rock formation namely the peneplained gneissic complex and quartzite. Groundwater occurs under both water table and semi-confined conditions in these consolidated formations. Unconsolidated formations mainly are represented by recent alluvium formation occurring near the southern fringe of the district adjacent to Bangladesh. The major part of the district is covered by semi-consolidated formation covering Amlarem and Khliehriat blocks constituting the Shella formation and study area is also part of the same. This type of formation has a fairly thick and discontinuous aquifer down to 250 m.

Water Table at Study area

No perennial nala / stream exists within the target area. No permanent water table has been encountered even at a depth of 649 mRL. The maximum depth that can be reached at the conceptual mine period is 650 mRL. So there is no chance of encountering any water table in this mine. However a temporary water source noticed from 655 to 650mRL. There will be temporary dumping of waste material within the Block area but due to proper precautionary measures like, stabilization of levels, construction of garland drain & retaining wall, possibility of any contamination through rain water is eliminated. Also no adverse effect has ever been observed on water regime due to limestone mining in this region. Naturally no adverse effect has been observed due to mining on agriculture or in the cropping pattern.

Anticipated impact & Mitigation Measures on Hydrogeology

Activity	Aspect	Impact	Major/ Minor/ Negligible	Mitigation
Excavation, breaking, dislodging of rocks	Contamination of Groundwater	Contamination of groundwater may deteriorate the quality of water which will impact the health of human being	Major	There will be no intersection of the permanent water table during the Mining as the water table has not encountered upto 654 mRL as per bore hole investigation and the lowest level of excavation will be 650 mRL.


Mines Manager
Mynkree Limestone Deposit
Hills Cement Company LTD



2006
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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Activity	Aspect	Impact	Major/ Minor/ Negligible	Mitigation
Excavation, breaking, dislodging of rocks				In addition minerals do not contain leaching substances
	Change in natural contour of the area	It will alter the natural flow of water.	Major	Garland drains will be constructed all around the dumping, top soil stack and quarry to guide the water down to join the natural water course again (outside the project area) after necessary treatment whenever required.
Working & daily activity of construction labour	Contamination of Groundwater & Surface water	0.5KLD of water will be required for domestic use. Out of which 0.3 KLD will be waste water	Minor	Temporary bio toilets will be provided. 0.3 KLD of waste water generated from the mine lease are disposed off to septic tanks followed by soak pits
Transportation	Oil & chemical Spillage	Spillage of Oil & chemicals, if in any case comes in contact with water body can deteriorate the groundwater & surface water body which in turn may affect the aquatic life also.	Minor	During washing of HEMM, some oil and grease will also flow with the water to the filtration tank.. This will be separated mechanically/manually and thereafter the clean water shall be used for the plantation. - Spillage of oil from the machinery will be properly collected and handed over to the authorized outside agency.

[Signature]

Mines Manager
Mynkree Limestone Deposit
Hills Cement Company LTD



ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Ambient Anticipated Impact and proposed Mitigation Measures on air quality of the area are given below:

Activity	Aspect	Impact	Major/ Minor/ Negligible	Mitigation
Development of quarry at mine	Dust emission will lead to increase in PM	Increased PM level may cause respiratory problems to workers and to nearby Populations. - Increased PM level will result deposition of dust on leaves which may cause decrease in Transpiration rate of flora - Increased dust will decrease the Aesthetic look of the area.	Major	<p>Mining activity will be confined within the mining lease only.</p> <p>Water sprinkling will be done on the active mine area to reduce the dust generation.</p> <p>Personal protective devices will be provided to the workers who are engaged in dust generating activities.</p> <p>The entire mined out area will be reclaimed by plantation at the end of lease period.</p> <p>It is proposed to carry out an afforestation programme during the proposed mining period along the Block boundary conforming to the safety zone to restore the eco-balance and also to increase the greenery of the Block area. 4200 no. of plant shall be planted along the safety zone & mined out benches</p>
Excavation	Dust emission will cause increase in PM level	Increased PM level may cause respiratory problems to workers and to nearby populations. - Increased PM level will result deposition of dust on leaves which may cause decrease in Transpiration rate of	Minor	<p>Mining activity will be confined within the mining lease only</p> <p>Water sprinkling will be done on the active mine area to reduce the dust generation.</p> <p>Personal protective devices will be provided to the workers who are engaged in dust generating activities.</p> <p>Plantation will be done along the safety zone of the lease area having 0.683 ha land.</p>

[Signature]
Mines Manager
Mynkree Limstone Deposit
Hills Cement Company LTD



ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Activity	Aspect	Impact	Major/ Minor/ Negligible	Mitigation
Development of quarry at mine	Dust emission will lead to increase in PM	Increased PM level may cause respiratory problems to workers and to nearby Populations. - Increased PM level will result deposition of dust on leaves which may cause decrease in Transpiration rate of flora - Increased dust will decrease the Aesthetic look of the area.	Major	<p>Mining activity will be confined within the mining lease only.</p> <p>Water sprinkling will be done on the active mine area to reduce the dust generation.</p> <p>Personal protective devices will be provided to the workers who are engaged in dust generating activities.</p> <p>The entire mined out area will be reclaimed by plantation at the end of lease period.</p> <p>It is proposed to carry out an afforestation programmer during the proposed mining period along the Block boundary conforming to the safety zone to restore the eco-balance and also to increase the greenery of the Block area.</p> <p>4200 no. of plant shall be planted along the safety zone & mined out benches</p>
Excavation	Dust emission will cause increase in PM level	Increased PM level may cause respiratory problems to workers and to nearby populations. - Increased PM level will result deposition of dust on leaves which may cause decrease in Transpiration rate of	Minor	<p>Mining activity will be confined within the mining lease only</p> <p>Water sprinkling will be done on the active mine area to reduce the dust generation.</p> <p>Personal protective devices will be provided to the workers who are engaged in dust generating activities.</p> <p>Plantation will be done along the safety zone of the lease area having 0.683 ha land.</p>

[Signature]
Mines Manager
Mynkree Limestone Deposit
Hills Cement Company LTD

ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

		flora Increased dust will decrease the aesthetic look of the area.		
Drilling & Blasting	Dust emission	Increase in PM levels will affect the respiratory health of mine workers and nearby population	Major	<p>Water sprinkling will be done for suppression of particulates.</p> <p>Wet drilling will be carried out to minimize dust generation.</p> <p>Drilling machines will be equipped with dust collector arrangement.</p> <p>Personnel working on the drills and near the drilling area will be provided with dust mask and other required Personal Protective Equipment (PPE).</p> <p>Optimum blast design parameters will be adopted after study. Optimum stemming in blast holes will be done to minimize generation of dust and fly rocks.</p> <p>Blasting will be done during favorable atmospheric conditions and will be avoided during high windy periods, night times and temperature inversion periods.</p> <p>To avoid secondary blasting, a rock breaker will be used.</p>
Operation of machineries & equipment's (including DG sets, Heavy Earth	Emission of gases and dust emissions	Emission of gases and dust emissions from the operation of machineries and equipment's will deteriorate the	Negligible	<p>Water sprinkling will be done for suppression of particulates.</p> <p>Regular maintenance of machineries and equipment will be done.</p>

[Signature]
 Mines Manager
 Mynkree Limestone Deposit
 Hills Cement Company Ltd



ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

		flora Increased dust will decrease the aesthetic look of the area.		
Drilling & Blasting	Dust emission	Increase in PM levels will affect the respiratory health of mine workers and nearby population	Major	<p>Water sprinkling will be done for suppression of particulates.</p> <p>Wet drilling will be carried out to minimize dust generation.</p> <p>Drilling machines will be equipped with dust collector arrangement.</p> <p>Personnel working on the drills and near the drilling area will be provided with dust mask and other required Personal Protective Equipment (PPE).</p> <p>Optimum blast design parameters will be adopted after study. Optimum stemming in blast holes will be done to minimize generation of dust and fly rocks.</p> <p>Blasting will be done during favorable atmospheric conditions and will be avoided during high windy periods, night times and temperature inversion periods.</p> <p>To avoid secondary blasting, a rock breaker will be used.</p>
Operation of machineries & equipment's (including DG sets, Heavy Earth	Emission of gases and dust emissions	Emission of gases and dust emissions from the operation of machineries and equipment's will deteriorate the	Negligible	Water sprinkling will be done for suppression of particulates. Regular maintenance of machineries and equipment will be done.

[Signature]

Mines Manager
Mynkree Limestone Deposit
Hills Cement Company LTD



ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Mining machineries etc)		ambient air quality of the area and will affect the respiratory health of workers and nearby population		
Loading and Unloading of ROM	Dust emission	Dust generation from loading & unloading will affect the respiratory health of workers and nearby population	Major	<p>Regular water sprinkling will be done at loading and unloading points to reduce the dust generation.</p> <p>Loading equipment having optimized bucket size that will be deployed which reduces the number of buckets passes to fill the tippers by dropping material from height and thus have comparatively less dust generation.</p> <p>Unloading of ROM by tippers will be carried out with proper care avoiding dropping of the materials from height</p>
Transportation of Ore	Dust & other air emission	Dust generation due to transportation will affect the respiratory health of workers and nearby population	Major	<p>The mineral will be transported through dumpers from the lease area to Crusher at the cement plant.</p> <p>Regular water sprinkling will be done within the mine site.</p> <p>Covered tippers will be deployed from the mine.</p> <p>The vehicles deployed for material transportation shall be spillage proof to avoid or minimize the spillage of the material during transportation.</p> <p>There is provision of a stack of 30m and Bag filters at the crushing plant to control particulate matter.</p>
	Diesel/ petrol leakage	Leakage of petrol/ Diesel may result in emission of VOCs in the air	Minor	<p>Proper maintenance of vehicles will be done and it is ensured that there is no leakage from the vehicles.</p>

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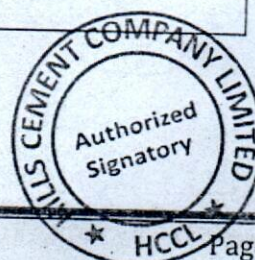


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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Mining machineries, etc)		ambient air quality of the area and will affect the respiratory health of workers and nearby population		
Loading and Unloading of ROM	Dust emission	Dust generation from loading & unloading will affect the respiratory health of workers and nearby population	Major	<p>Regular water sprinkling will be done at loading and unloading points to reduce the dust generation.</p> <p>Loading equipment having optimized bucket size that will be deployed which reduces the number of buckets passes to fill the tippers by dropping material from height and thus have comparatively less dust generation.</p> <p>Unloading of ROM by tippers will be carried out with proper care avoiding dropping of the materials from height</p>
Transportation of Ore	Dust & other air emission	Dust generation due to transportation will affect the respiratory health of workers and nearby population	Major	<p>The mineral will be transported through dumpers from the lease area to Crusher at the cement plant.</p> <p>Regular water sprinkling will be done within the mine site.</p> <p>Covered tippers will be deployed from the mine.</p> <p>The vehicles deployed for material transportation shall be spillage proof to avoid or minimize the spillage of the material during transportation.</p> <p>There is provision of a stack of 30m and Bag filters at the crushing plant to control particulate matter.</p>
	Diesel/ petrol leakage	Leakage of petrol/ Diesel may result in emission of VOCs in the air	Minor	<p>-Proper maintenance of vehicles will be done and it is ensured that there is no leakage from the vehicles.</p>

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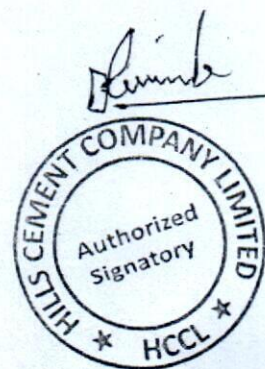
ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Activity	Aspect	Impact	Major/ Minor/ Negligible	Mitigation
	environment which will cause irritation in eyes, nose and nausea. throat, difficulty breathing and nausea.			It will ensure that the vehicle used for transportation complies to conditions stipulated by, SPCB in addition to the requirement mentioned in Motor Vehicle Act, 1988 (59 of 1988).
Vehicular emission	Gaseous emission from vehicles used for transportation will affect the health of workers and nearby population	Major		<p>Vehicles with valid PUC certificates will be used for transportation of ROM</p> <p>Plantation will be done along the safety zone of the lease area having 0.683 ha land. In addition, mined out area of 3.3 ha will also be rehabilitated with plantation at the end of lease period.</p>

Ambient Noise Level: Potential Impacts & Mitigation

The proposed mining method will be open cast mechanized with drilling and blasting. In this mining project there will be various sources of noise & vibration due to drilling, blasting, operation of compressor, loading and haulage, and vehicular traffic.


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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Activity	Aspect	Impact	Major/ Minor/ Negligible	Mitigation
Development of quarry at mine site	Increase in noise level	Noise generation may cause physiological & psychological effects on nearby people like annoyance, headache, Auditory impact, increase in heartbeat of patients and elderly people.	Minor	<p>Provision of protective devices like earmuff /plugs to the workers will be done.</p> <p>Proper maintenance of the machine/ equipment for levelling will be carried out.</p> <p>Plantation will be done along the safety zone of the lease area having 0.638ha land. In addition, mined out area of 3.3 ha will also be rehabilitated with plantation at the end of lease period.</p>
Excavation operation of machineries & equipment's (including DG sets, Heavy Earth moving machineries, ETP etc)	Increase in noise level due to operation of Heavy earth moving machineries	<p>Due to excavation activity there will be high level of noise generation along with vibration which may cause physiological & psychological effects on workers, & nearby people like annoyance, headache, Auditory impact, increase in heartbeat of patients and elderly people. -</p> <p>There will be an impact on the excavator operator like whole body vibration and auditory impact. The noise level generation due to the excavator will be 85-90 dB. -</p> <p>Running of DG sets will cause vibration in the immediate surroundings of DG set area.</p>	Major	<p>Workers will be provided with protective devices like earmuff/plugs. -</p> <p>Proper maintenance of the excavator will be carried out and excavator is provided with a closed cabin and vibration isolator. -</p> <p>Plantation will be done along the safety zone of the lease area having 0.683 ha land. In addition, mined out area of 3.3 ha will also be rehabilitated with plantation at the end of lease period.</p> <p>Plantation will be done along the safety zone of the lease area having 0.638 ha land. In addition, mined out area of 3.3 ha will also be rehabilitated with plantation at the end of lease period.</p>

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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Water Resource & Quality: Potential Impacts & Mitigation Water Environment

The mining operations may produce an impact on the water regime. The important impacts on water regime include change in surface run-off and base flow relationship and possible contamination of surface run-off with excavated overburden. There is no perennial water body flowing across the M. L. area.

Impact and Mitigation measures on water quality

Activity	Aspect	Impact	Major/ Minor/ Negligible	Mitigation
Development of quarry at mine site	Development of Quarry at mine site will cause change in Natural contour Level which will Result in change of drainage pattern	Storm water will get accumulated in the quarry due to change in contour.	Major	Proper drainage (Garland drain) will be constructed at the mine site.
	Dust emission will lead to increase in PM	Dust emission deposition over Surface water body may Deteriorate its Quality by increasing the pathogen in the water body and thereby affecting aquatic life and making water unfit for consumption.	Minor	Regular water sprinkling will be Done to reduce the dust Generation.
Excavation	Intersection and contamination of groundwater	Intersection may deteriorate the quality of groundwater	Major	The water table is much below the mining activities No water table was touched during the drilling upto 654 m RL.. Hence there are no chances of water table intersection. The mineral limestone do not contain leaching substance however, Garland drains will be

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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Biological environment: Potential Impacts & Mitigation

Biological environment:

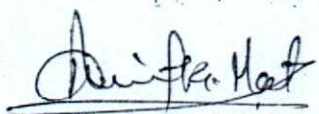
Mining can affect vegetation in the core zone. The mining activity will generate dust which may impact the nearby biological environment.

Flora: In the Core Zone, due to the mining activities in nearby areas no significant varieties of flora were observed. The nearby area is limited to 3 to 4 differentiated forms of species. The names of floral species found at the time of site visit are *Thysanolaena maxima*, *Cocos nucifera*, *Morinda citrifolia*, *Citrus indica*, *Musa acuminata*, *Psidium guajava* etc

Fauna: In Core Zone, Agamas, Indian Cobra, Rat Snake, Nilakanthi tezpia, Three stripped palm squirrel, rat grey mongoose etc are found

Anticipated Impact and Proposed Mitigation Measures on Biological Environment

Activity	Aspect	Impact	Major/Minor/Negligible	Mitigation
Development of quarry at mine site for level opencast mining	Clearance vegetation	It is a private forestland involving 4.0 ha where mining will be done. Existing vegetation will be cleared. Although there are mainly bamboo and scrub vegetation.	Minor	At the end of Conceptual stage: Plantation over the area of 3.3 Ha will be reclaimed.
		Increased noise will cause disturbance of existing avifauna, however, avifauna is not restricted to one place for a long time. and thus it will not result in their displacement.	Minor	All the development activities of the mine will be carried out during the daytime. -Drilling and blasting activities will not be done during night time.
	Dust emission will lead to increase in PM	Increased PM Level will result deposition of dust on leaves which may cause decrease in Transpiration rate of flora Increased dust emission can lead to climate change which eventually will result in decrease in plant/tree cover	Minor	Regular water sprinkling will be done to reduce the dust generation.
Excavation	Dust emission will lead to increase in PM	Increased PM Level will result deposition of dust on leaves which may cause decrease in Transpiration rate of flora - Increased dust emission can lead to climate change which eventually will result in decrease in plant/tree cover	Minor	


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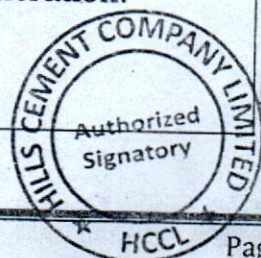


ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

	Removal of soil, Top soil & run off of soil	Removal of Top soil will affect the habitat of micro-organism and invertebrate	Minor	The excavated topsoil will be used in a plantation within the mine lease, which will cause recovery of habitat of micro-organism and invertebrate.
	Increase in noise level	Increased noise will cause disturbance of existing avifauna, however, avifauna is not restricted to one place for a long time, thus it will not result in their displacement. There will be loss on soil biota due to excavation and vibration	Minor	All the mining activities will be carried out during the daytime. - Drilling and blasting activities will not be done during night time. Proper maintenance of the excavator will be carried out and excavator shall be provided with vibration isolator.
Drilling & Blasting	Dust emission	As there will be intermittent dust generation hence there will not be much impact on existing Flora	Negligible	Regular water sprinkling will be done to reduce the dust generation. Drilling and blasting activities will not be done during night time.
Operation of machineries & equipment's (including DG sets, Heavy Earth moving machineries, etc))	Noise generation	Disturbance of existing avifauna, however, avifauna is not restricted to one place for a long time, thus it will not result in their displacement.	Minor	All the mining activities will be carried out during the daytime.
	Dust emission	Increased PM Level will result deposition of dust on leaves which may cause decrease in Transpiration rate of flora -Increased dust emission can lead to climate change which eventually will result in decrease in plant/tree cover	Minor	Regular water sprinkling through water tankers will be done to reduce the dust generation.

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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Loading & unloading of ROM	Dust emission	Increased PM Level will result deposition of dust on leaves which may cause decrease in Transpiration rate of flora Increased dust emission can lead to climate change which eventually will result in decrease in plant/tree cover	Minor	
	Noise generation	Increased noise will cause disturbance of existing avi-fauna, however, avifauna is not restricted to one place for a long time, thus it will not result in their displacement.	Minor	All the mining activities will be carried out during the daytime. Drilling and blasting activities will not be done during night time.
Transporta tion of Ore	Dust & other air emission	Increased PM Level will result deposition of dust on leaves which may cause decrease in Transpiration rate of flora Increased dust emission can lead to climate change which eventually will result in decrease in plant/tree cover	Minor	Regular water sprinkling will be done to reduce the dust generation.-
Developme nt of road	Dust generation	Increased PM Level will result deposition of dust on leaves which may cause decrease in Transpiration rate of flora Increased dust emission can lead to climate change which eventually will result in decrease in plant/tree cover	Minor	
	Air emission & dust generation	Increased PM Level will result deposition of dust on leaves which may cause decrease in Transpiration rate of flora Increased dust emission can lead to climate change which eventually will result in decrease in plant/tree cover	Minor	Separate raw material yard will be made. Sand and road construction materials will be stacked nearby under tarpaulin cover.

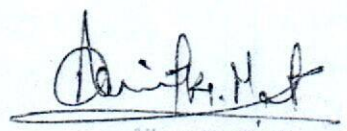
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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Transportation (Raw Material, Labour)	Noise generation	Increased noise will cause disturbance of existing avi-fauna, however, avifauna is not restricted to one place for a long time, thus it will not result in their displacement.	Minor	<p>All the activities will be carried out during the daytime.</p> <p>Acoustically enclosed DG sets will be provided along with vibration pads.</p> <p>All the machineries used will be provided with vibration isolators in accordance to their vibration generation</p>
		Increased noise due to vehicular transportation will cause disturbance of existing avi-fauna, however, avifauna is not restricted to one place for a long time, thus it will not result in their displacement.	Minor	<p>-Vehicular movement for transportation of raw material will be carried out only in day-time and will try to avoid unnecessary honking with the help of sign boards.</p>


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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

Socio-Economic Environment: Potential Impacts & Mitigation

Anticipated Impact and Proposed Mitigation Measures on Socio-Economic Environment

Activity	Aspect	Impact	Major/ Minor/ Negligible	Mitigation
Mining	Employment to local workers	There will be a positive impact on the socio economic conditions of villagers.	Minor	The proposed project will increase employment opportunities for labors. There will be a positive impact on the socio- economic condition of the area.
	Dust generation	Deposition of dust on the agricultural land leads to Loss of fertility of soil and will impact the productivity of	Minor	Water sprinkling will be done to minimize the generation of dust during mining activities.

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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

		Crops which will affect income of farmers. Inhalation of dust can cause the respiratory diseases to villagers	Minor	The lease area is surrounded by forest cover which will act as a barrier between the village and mine. However, regular water sprinkling will be done.
	Noise generation	Noise and vibration can cause speech interference, annoyance, Hearing impairment, increase in heartbeat/blood pressure.	Minor	-The lease area is surrounded by forest cover which will act as a barrier between the village and mine. However, proper maintenance of machinery will be done. PUC certified vehicles will be used for transportation. Blasting will be done during the day time only. use of delay detonator during blasting

Measure for minimizing and / or offsetting impacts are as follows:-

Air Environment:

To mitigate the adverse impact of mining requisite measures are being done such as water sprinkling, maintenance of machineries, Personal Protective equipment, regular health checkup of workers, Green belt development, wet drilling, covered transportation etc. Accordingly, Air quality reports have been prepared considering all the activities associated with mining.

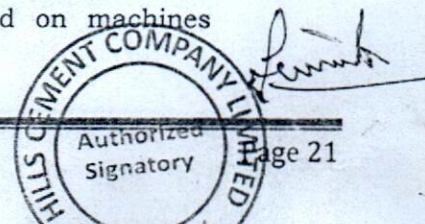
Noise Environment:

The proposed mining will be both opencast working with drilling and blasting. There will be various sources of noise & vibration due to drilling, blasting, operation of compressor, loading and haulage, and vehicular traffic as described below: As a general precaution, to reduce the effect of high noise level, the following measures have been proposed:

- Proper maintenance, oiling and greasing of mining machinery at regular intervals will be done. Provision of sound proof cabins for the workers deployed on machines producing high level of sound such as dozers, hyvas, shovels etc.

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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

- Reducing the exposure time of workers wherever required.
- Use of delay detonator for controlled blasting.
- Green Belt will be developed around the mining activity area, safety zone, and along the Haul road. However, the lease area is mostly surrounded by forest which acts as noise attenuator.
- The personal protective devices like acoustic wool, earplugs, ear muffs will be provided to the employees exposed to noise of more than 80 dB (A).
- Annual health checkups will be done on all the workers.

Water Environment:

The mining operations may produce an impact on the water regime. To mitigate the impact following measures have been suggested:

- Waste water will be discharged through a septic tank followed by a soak pit.
- No perennial nala / stream exists within the target area. Water table has not been encountered during the mining period.
- To prevent surface runoff, the garland drain will be constructed around the dump, top soil stack and mining pit, and haul road.
- Retaining walls have been made around the toe of the overburden dump to arrest the runoff silts and three nos of settling ponds have been provided for sedimentation. The water of the garland drain is passed from the settling tank. After sedimentation fresh water is allowed to move from the mine.

Land and Soil Environment:

Following are mitigation measures which will be taken to reduce the impact on land and soil environment:

- As per approved mine plan the total excavated area will be 3.3 Ha.. The entire mined out area will be reclaimed by plantation at the end of lease period. It is proposed to carry out an afforestation programme during the proposed mining period along the Block boundary conforming to the safety zone to restore the eco-balance and also to increase the greenery of the Block area.
- Topsoil will be stacked separately within the lease area and will be used for plantation.

Biological Environment:

In order to maintain the ecological balance and for the upliftment of the ecology of the area, the applicant proposes to take up regular afforestation in phased manner from opening of the mining activities along the safety zone.

Plantation has been proposed in a green belt area. Saplings will be planted at the interval of 1.0 m. The afforestation programme proposed for the first five years from the opening of mine is given below. While recommending the species, natural growth of existing

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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

species, suitability of a plant species for the area and survival rate etc. has been considered. Only those species which are not grazed by cattle have been recommended.


Proposed plantation programmer for five years as per last approved mining plan

Year	Plantation (Inside mining lease) No of plantsArea		Species of Plantation	Location
2020-21	118	0.118 sqm	Castonopeisindica, Castonopeishystrix, Derris robusta, Macaranga denticulate, Schmiawallichii & Musa superba.	N 2789628- N2789640 E 437844 – E 437877
2021-22	118	0.118 sqm		N 2789635- N2789644 E 437875 – E 437907
2022-23	118	0.118 sqm		N 2789639- N2789650 E 437904 – E 437936
2023-24	118	0.118 sqm		N 2789644- N2789653 E 437934 – E 437966
2024-25	121	0.118 sqm		N 2789646- N2789660 E 437969 – E 437996
Total	593 nos.	0.593 hect.		
Remark	Plantation will be done along the statutory barrier.			

Protection measures for future plantation:

- (i) The plant should generally be planted with the first effective monsoon shower.
- (ii) Protection of the plant in the initial stage by old used tar Drums which can be reused ones the plant grow up.
- (iii) Providing suitable fencing around the plantation.
- (iv) Immediately after planting the seedlings, watering has to be done. Further watering will be done depending on monsoon.
- (v) After the plants are established, little Urea and cattle manure shall be applied and profusely watered.
- (vi) Replacement of perished plants by suitable live plants.

The maintenance such as suitable fencing, watering, replacement of dead plants etc. is being taken regularly and shall be continued in future for better survival rate.


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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

As per approved mine plan the total excavated area will be 3.3 Ha. The entire mined out area will be reclaimed by plantation at the end of lease period. Approx. 4200 plants will also be planted in mined out benches over an area of 3.3 Ha at the end of the conceptual period.

Solid Waste Management:

- The total overburden generated will be stored within the lease area. Later on this OB will be utilized in the cement plant after taking due permission.
- The non-biodegradable waste will be properly collected and will be handed over to the vendor.

Socio-Economic Environment:

The proposed project will result in employment to local workers. It will have a positive impact on the socio-economic condition of the area. Regular medical examinations, schooling, better infrastructure, etc. shall benefit employees as well as the locals in the area. However there may be negative impacts also on account of mining. To mitigate such impacts following measures have been suggested:

- Regular sprinkling of water in the roads will be undertaken to arrest the dust. Besides, plantation around the mine area has been proposed which will help minimizing ill effect from dust.
- Maintenance of machineries to minimize the noise generation will be done.
- Blasting will be done during the day time only and as per requirement.
- The mineral will be transported by covered hyvas.

Occupational Health:

Workers in mines are at risk of developing interstitial lung disease if the dust levels are above the threshold limit value. Some illnesses, such as chronic bronchitis, bronchial asthma, tuberculosis and the collagen vascular diseases that affect the lung, maybe more severe because of the inhalation of dust are common to mine workers. The most difficult problem is to differentiate asymptomatic sarcoidosis from pneumoconiosis.

Miners may also suffer from occupational respiratory ailments, skin allergies etc, but the same are preventable if exposure is minimized. Further, regular health check-up of the miners is required to prevent any negative impact on their health.

Preventive measures:

- Employees will be guided and informed about the health hazards and the measures to cope up with them by conducting informative sessions.
- HEMM (Heavy Earth Moving Machinery) operator's cabin are inbuilt with acoustic enclosures which are fully noise proof.

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ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

- More no of safety measures like use of safety appliances, safety training, safety awards, posters, slogans related to safety will be there at the mine site.
- Annual Periodic examination of workers by registered medical practitioners will be done. Records of the same will also be maintained.
- Extensive publicity for awareness related to safety will be done.
- Personal Protective Equipment will be provided to the mine workers especially to those who are working at high noise & dust generation points. List of the PPE are given below:

Environmental Monitoring Program:

To ensure the effective implementation of the EMP, it is essential that an effective monitoring programmer be designed and carried out. Broad objectives of the monitoring programmer are:

- To evaluate the performance of mitigation measures proposed in the EMP
- To suggest improvements in the management plans, if required
- To satisfy the statutory and community obligations

Monitoring schedules for different environmental components after the Commencement of mining and other related activities

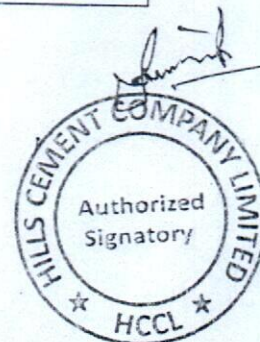
Details of the Environmental Monitoring schedule, which will be undertaken for various environmental components.

Monitoring Schedule

SL No.	Description	Frequency of Monitoring
1	Ambient Air Quality	Half Yearly
2	Water Quality	Half Yearly
3	Noise Level Monitoring	Half Yearly
4	Soil Quality	Half Yearly / Yearly
5	Socio- economic Status of the nearby area	Yearly
6	Green Belt Development	Regular Basis (Day to day)

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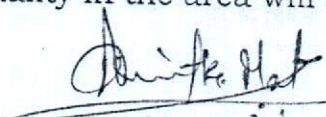
ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

EMP Implementation Budget

SL No.	Particulars	Activities	Capital Cost (Rs)	Annual Recurring Cost (Rs)
			Proposed	Proposed
1	Pollution Control (Water Sprinkling)	Water Sprinkling		120000
		Settling Tank	25000	25000
		Garland Drain	250000	25000
		Retaining Wall	120000	24000
2	Pollution Monitoring (Ambient air, Groundwater, surface water, Soil quality, noise quality)	Air	....	90000
		Water	....	120000
		Noise	....	70000
		Soil	....	75000
3	Public Health	.....	....	150000
4	Green Belt development	Plantation	300000	100000
	Total		695000	799000

Conclusion:

This mining project shall fulfill the requirement of raw materials to run the Cement Plant of the applicant which is located at a distance of 0.7 Km from the mines. There shall be financial gains for the state and central governments, through collection of various taxes like royalty, cess, NMET and DMF. The mining project will benefit this region in the fields of potential employment opportunities, improved per capita income for local people, improving social welfare facilities like infrastructural build-up, etc. Further continuation of the mining operation with more planned need based CSR activities by the proponent will definitely benefit the locals in a significant manner. A meticulously well planned Environmental Management Plan, with various programmer schedules and timely execution objectives, as above, will ensure that the future environmental quality in the area will be maintained within statutory limits.


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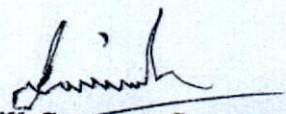
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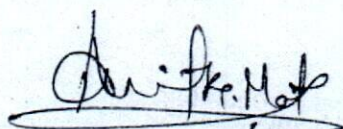
ENVIRONMENT MANAGEMENT PLAN FOR MYNKREE LIMESTONE MINE

The environmental management strategy as explained above will prove that industrial growth, if properly planned with all environmental concerns and appropriate remedial measures can go a long way to improve life pattern and living conditions of the local community around the project.

Place : Mynkree , Meghalaya

Date: 05.07.23

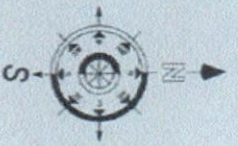
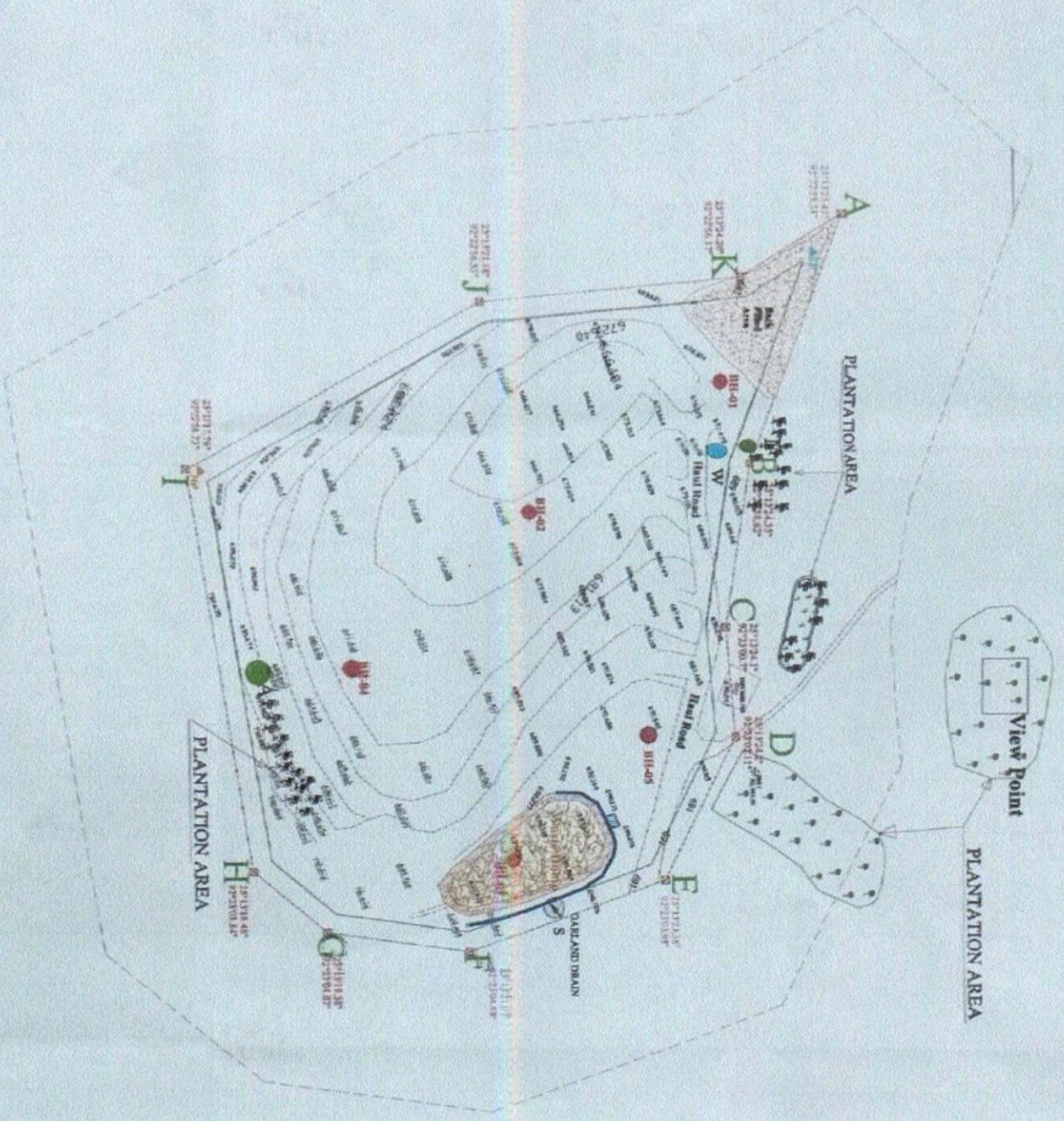
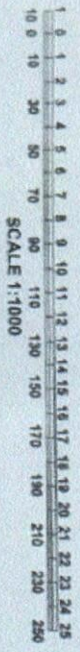

For Hill Cement Company Limited



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1	AIR SAMPLING STN	0A
2	NOISE SAMPLING STN	0B
3	WATER SAMPLING STN	0C
4	SOIL SAMPLING STN	01

ENVIRONMENT MANAGEMENT PLAN MYNKREE LIMESTONE MINE (OVER 10 HRS. INMENSURE TILLAGE, EAST PONTIHA S. DISTRICT) (MEGHALAYA)	
LESSEE- M/S HILLS CEMENT COMPANY LTD. MINE NO. - MYNKREE TEHSIL - KHLEHRIAT DISTRICT - EAST JAMTHA HILLS (MEGHALAYA)	LEASE AREA - 4.0 HRS. DATE OF SURVEY 28.11.19 SCALE - 1:1000



(Authorized Signature)

Prepared by: *[Signature]*
 Checked by: *[Signature]*
 Approved by: *[Signature]*
 Date: 28.11.19

CATEGORY-A O/C mine

**REVIEW OF MINING PLAN
WITH
PROGRESSIVE MINE CLOSURE PLAN**
(Submitted under Rules 1 & 2 of Minerals (Other than Atomic and Hydro-Carbon) Energy
Minerals Concession Rules, 2016)

OF
MYNKREE LIMESTONE MINE

VILLAGE - Mynkree, TEHSIL - Khliehriat
DISTRICT - East Jaintia Hills, STATE - Meghalaya

MINERAL - LIMESTONE

LEASE AREA - 4.0 HECT.

(NON-FOREST AREA - NIL, FOREST AREA - 4.0 HECT)

LEASE PERIOD - FROM - 09-12-2010 To 08-12-2030

PERIOD OF REVIEW OF MINING PLAN - 2020-21 to 2024-25 (5 Years)

LESSEE

M/s HILLS Cement Company Limited.
Village-Mynkree, 116 km Stone(NH 44)
Sub Div-Khliehriat, Dist-Jaintia Hills, Meghalaya
Pin-793210

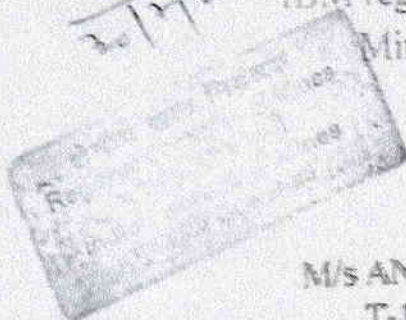
E mail - minesheel@gmail.com

Fax No 03655215864

Contact no. 7085099181, 9402133123

IBM registration no. IBM/7580/2011

Mine Code -38MEG03014



PREPARED BY

SUNIL KUMAR SONI
(Mining Engineer)

M/s ANSH MINE ENVIRO SERVICES

T-14-B, Shastri Nagar, Ajmer

Contact no. 9414258936 & 9251058936 (M)

E mail - anshmineservices@gmail.com

E LETTER NO. **IBM/GHY/MEG/JNH/LST/MP-12**

20/12/2020



CONSENT LETTER / UNDERTAKING / CERTIFICATE FROM THE LESSEE:

01 The Review of Mining Plan in respect of Mynkree Limestone mine over an area of 4.0 Ha. in village Mynkree, P.O. Khliehriat, Dist. East Jaintia Hills (Meghalaya). Bearing Mining Lease submitted under Rule 17(2) of Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 has been prepared by Qualified Person Sunil Kumar Soni (Qualified Person).

This is to request the Regional Controller of Mines, Indian Bureau of Mines, Guwahati, to make any further correspondence regarding any correction Of the Review of Mining Plan with the said qualified person at his address below:-

(Full name of QP and address)

Address of Qualified Person

Sunil Kumar Soni (Mining Engineer)

M/s Ansh Mine Enviro Services

T-14-B, "Saroj Villa"

Shastri Nagar, Ajmer

Mobile no. 9414258936 & 9251058936.

E-mail address - sksonmajmer@gmail.com, anshmineservices@gmail.com

I, hereby undertake that all modifications / updating as made in the said Review of Mining Plan by the said Qualified Person be deemed to have been made with my knowledge and consent and shall be acceptable on me and binding in all respects.

02 It is certified that the CCOM Circular No-2/2010 will be implemented and complied within 6 months of authorization of agency by the state government or within 6 months of lease execution (whichever is earlier).

03 It is certified that the Progressive Mine Closure plan complies with all statutory rules, Regulations, Orders Made by the Central or State Government, Statutory organization, Court etc. which have been taken into consideration and wherever any specific permission is required the lessee will approach the concerned authorities.

04 "The provisions of Mines Act, Rules and Regulations made there under have been observed in the Review of Mining Plan over an area of 4.0 hect. in East Jaintia Hills district in Meghalaya state belonging to Mynkre Lime Stopne Mine, and where specific permissions are required, the lessee will approach the D.G.M.S.

Further, standards prescribed by D.G.M.S. in respect of miners' health will be strictly implemented".

05 The information furnished in the Review of Mining Plan is true and correct to the best of our knowledge and records.

06 It is to undertake that all the measures proposed in this Progressive Mine Closure Plan will be implemented in a time bound manner as proposed.

Place: Mynkree

Date: - 11.03.2020

Nikhil Mittal

(Nominated Owner & Director)

M/s Hills Cement Company Limited

HILLS CEMENT COMPANY LTD.

CIN:U28140ML2011PLCM0001 Website: www.hillscement.com

CORPORATE OFFICE: SHIVAM COMPLEX, Bhadrachalam & T Road, Guwahati, Tezpur Ph: (0361) 273352, 2733527 E-mail: highceefm.info@hillsce.com, highceefm@hillsce.com
REGISTERED OFFICE & WORKS: Village Mynkree, Trak M Stone NH-44, Sub Dist: Anishnagar, Dist: Jaintia Hills, Meghalaya-791200 Ph: 0365-215264 E-mail: hillsproject@gmail.com

CERTIFICATE FROM QUALIFIED PERSON:

The provisions of the Mineral Conservation and Development Rules 2017 made under Section 18 of the Mines & Minerals (Development & Regulation) Act 1957, have been observed in the preparation of the Review of Mining Plan for Mynkree Limestone Mine, over an area of 4.0 hect., of M/s Hills Cement Company Limited in Village- Mynkree, Tehsil- Khliehriat & District -East Jaintia, (Meghalaya) and whenever specific permissions are required, the lessee will approach the concerned authorities of Indian Bureau of Mines. The information furnished in the Review of Mining Plan is true and correct to the best of my knowledge.

Place : Ajmer
Date : 15.06.2020



Sunil Kumar Soni
(QUALIFIED PERSON)
M/s Ansh Mine Enviro Services

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[Signature]

SUMMARY OF PROPOSALS AT A GLANCE
PERIOD: 2020-21 TO 2024-25

Proposal	Year						Remark
	2020-21	2021-22	2022-23	2023-24	2024-25	Total	
Exploration							
No of Boreholes (Core/RC/DTH) with meterage	Nil	Nil	Nil	Nil	Nil	Nil	Entire area is already explored & put in G-1
No of Pits/ Trenches with dimensions	Nil	Nil	Nil	Nil	Nil	Nil	
Any other Exploration activity (to indicate)	Nil	Nil	Nil	Nil	Nil	Nil	
Excavation							
Top Soil in m ³	Nil	Nil	Nil	Nil	Nil	Nil	Nil
ROM in Tonnes	2,25,600	2,25,375	2,27,250	2,27,325	2,28,000	11,34,150	
Waste Material m ³	10,600	13,050	8,400	17,310	0	49360	
Area Utilisation							
Under Mining (in Ha)	2.79	3.01	3.14	3.3	3.3	3.3	
Area under Waste dumping (in Ha)	0.17	0.0	0.0	0.0	0.0	0.0	
Area under Mineral Reject (in Ha)	0.0	0.0	0.0	0.0	0.0	0.0	
Area under Top Soil stack (in Ha)	0.0	0.0	0.0	0.0	0.0	0.0	
Area under Tailings if any (in Ha)	0.0	0.0	0.0	0.0	0.0	0.0	
Area already reclaimed and rehabilitated (in Ha)	0.0	0.0	0.0	0.0	0.0	0.0	
Stacking							
Top Soil in m ³	0.0	0.0	0.0	0.0	0.0	0.0	
Mineral Reject in Tonnes (above Threshold value)	0.0	0.0	0.0	0.0	0.0	0.0	
Waste material in m ³	10550	13050	8400	17370	0	49370	
Environmental Protective Measures							
Plantation for Virgin area (Green cover)/reclamation							
Numbers	Lessee has already done about 2000 plants in and around the lease area						
Area							
Plantation over waste dumps:							
Numbers	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Area	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Reclamation of mine out area	0.118	0.118	0.118	0.118	0.118	0.593	
Construction of							
Check Dams numbers							
Retaining Wall in meters	197	35	35	78	-	345	
Garland drain in meters	197	35	35	78	-	345	
Settling ponds (Numbers)	1	-	-	-	-	1	
Any other environmental protective measures(to be indicated)							

Just

Mining Plan for Mynkree Limestone mine of M/s Hill Cement Company Limited over an area of 4.0 Ha situated in East Jaintia Hills District of Meghalaya State.

CHAPTER-I INTRODUCTION AND GENERAL INFORMATION

1.0 PART-A: INTRODUCTION

Hills Cements Company Limited, (HCCL) is a limited company incorporated under Companies Act 1956 on 23rd Dec., 2003 at Shillong. The company has been granted license for setting up a Cement plant, at Mynkree village, Tehsil- Khliehriat, Dist: East Jaintia Hills, State -Meghalaya.

HCCL is an integrated Cement plant of capacity 3000 TPD of different types of cements like Ordinary Portland Cement – 43 & 53 Grade and Portland Pozzolana Cement, located in Meghalaya on NH 44 (Shillong- Silchar highway, about 115 km from Shillong), near 116 km stone at Village Mynkree, District East Jaintia Hills. The plant is Equipped with the state of the art mechanical, electrical, instrumentation and automation, having advanced PLC control, our plant is geared up to ensure a stable plant operation to achieve the rated capacity on a sustained basis, better quality and uniformity in grades.

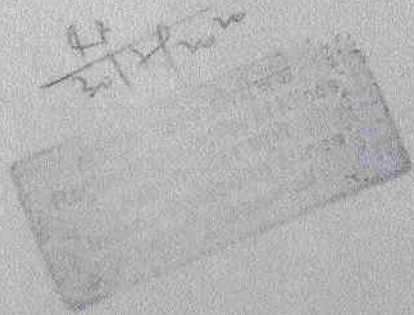
The cement of the company is marketed under brand name TAJ CEMENT. The company is among the first few of the Cement industry in the North East i.e. Provision of Reverse jet bag filters for transfer points, Bag house for Kiln and Raw mill, ESP (Electro Static Precipitators) for coolers instead of cyclones to contain dust emission well within the prescribed limits.

Manufacturing Process of Cement

The manufacturing procedures of Portland cement are described below.

- Mixing of raw material
- Burning of Raw material
- Grinding of clinker
- Storage and packaging

To produce high-quality cement, the mineralogical and chemical composition of raw materials as well as intermediate and finished products has to be determined. At Hills Cement at each stage of the production, samples are being taken, processed and analysed to ensure quality control without gaps.



S. K. Saha

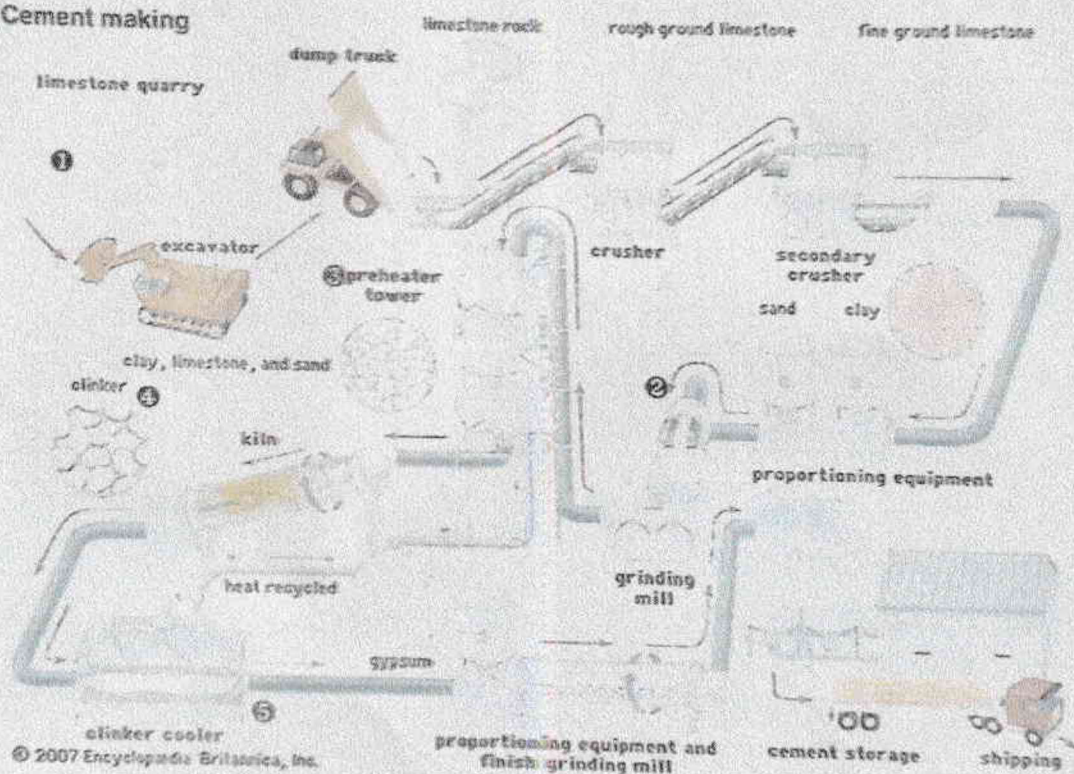
The primary raw materials for the production of cement clinker in the plant are limestone, the cement plant commissioned in the year 2009.

The clinker production from the plant in during last 5 financial years are given as below.

Year	Clinker production (T)
2015-16	214388.85 T
2016-17	256984.03 T
2017-18	203998.62 T
2018-19	233920.00 T
2019-20	229175 T
Total	1138466.5 T

Tab -1

Cement making



Process of Cement Manufacturing

The limestone for the cement plant is fed from captive mine, located nearby the cement plant.

Company applied a mining lease for an area of 4.0 hect. for which NOC was issued by the office of the Jaintia Hills Autonomous District Council, vide letter no. JHADC/FOR/07/06/13-14, dated 06.01.2009 (refer annexure no. 1 a).

Signature