

STATE EXPERT APPRAISAL COMMITTEE (SEAC)

:: MEGHALAYA::

**'SYLVAN' House, Lower Lachumiere,
East Khasi Hills, Shillong – 793 001.**

**MINUTES OF 47th MEETING OF THE STATE EXPERT APPRAISAL COMMITTEE, MEGHALAYA
SHILLONG HELD ON 31st August 2021, FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING
PROJECTS**

Members of the Committee present:

Sl.No	Name	Designation	Signature
1	Shri. Nababrata Bhattacharjee	Chairman SEAC	-Sd-
2	Prof. Donkumar Syiem	Member	-Sd-
3	Shri Toiler H.S. Bonney (Rtd) IFS	Member	-Sd-
4	Shri. Puhran M. Sangma	Member	-Sd-
5	Shri. Phngain Singh Giri Lyngdoh	Member	-Sd-
6	Shri. Shekhar K. Sangma	Member	-Sd-
7	Shri. Jiswordy Dkhar, MFS Deputy Conservator of Forest (SF & Env.)	Member Secretary SEAC	-Sd-

The 47th meeting of State Expert Appraisal Committee (SEAC), Meghalaya, Shillong, held on 31st August 2021 through video conference from 11:00 AM onwards through video conference in the Conference Hall, Sylvan House, Meghalaya, Shillong. At the outset the Chairman Shri. Nababrata Bhattacharjee, welcomed all the members of the Committee present and called the meeting to order. He requested the Member Secretary to initiate the discussion as per the agenda circulated vide letter No.ML/SEAC/Meeting/Vol-III/121/2020/25 dated the 27th August 2021, accordingly. All proposed mining areas are cross checked through google earth.

1. Confirmation of the minutes of the 46th Meeting held on 23rd August 2021.

The minutes were confirmed.

2. Action taken report as per the decision taken in the 46th Meeting.

As per the decision taken in the 46th Meeting of the State Expert Appraisal Committee held on 23rd August 2021, (9) Nine project proposals were recommended for Environmental Clearance to the State Environment Impact Assessment Authority, Meghalaya.

1. Proposal No SIA/ML/MIN/63275/2021 submitted by Shri Teson Dkhar.

The Project Proponent, Shri Teson Dkhar submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/63275/2021 for Term of Reference for Shri Teson Dkhar's Limestone Mine for mining of Lime stone for an area of 1.07 hectares. The proposal is for mining of lime stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Lumshnong, Elaka Narpuh, East Jaintia Hills District, Meghalaya and toposheet Survey of India No.83C/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 09' 58.6''N	92° 22' 53.0''E
2	25° 09' 59.4''N	92° 22' 53.1''E
3	25° 10' 00.1''N	92° 22' 53.6''E
4	25° 10' 00.3''N	92° 22' 54.2'' E
5	25° 10' 00.1''N	92° 22' 55.2''E
6	25° 09' 59.7''N	92° 22' 55.8''E
7	25° 09' 59.4''N	92° 22' 56.3''E
8	25° 09' 58.9''N	92° 22' 56.6''E
9	25° 09' 58.4''N	92° 22' 56.8''E
10	25° 09' 57.3''N	92° 22' 56.6''E
11	25° 09' 56.8''N	92° 22' 56.2''E
12	25° 09' 56.4''N	92° 22' 55.6''E
13	25° 09' 56.0''N	92° 22' 54.7''E
14	25° 09' 55.5''N	92° 22' 54.6''E
15	25° 09' 55.9''N	92° 22' 54.0''E
16	25° 09' 56.1''N	92° 22' 53.2''E
17	25° 09' 58.2''N	92° 22' 53.5''E

The proposed mining area belongs to the project proponent as per Land holding certificate vide no.JHADC/REV/LHC/510/89 dated Jowai, the 7th February 2012.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/S.Quarry/2009-10/476/B/626, dated Jowai, the 13th June, 2018 and letter of Intent vide letter No.JH/MMMCR-2016/2016-17/869/B/2213 dated Jowai, the 16th January 2019 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/33/MM/Mining Plan/2019-2020/119 dated Jowai, the 2nd September 2020 which states that there are three (3) approved mining plans lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of four mines is summed up to 10.816 hectares. The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/33/MM/Mining Plan/2019-20/117 dated Jowai, the 24th August 2020. The Mining Plan has been prepared to extract lime stone at the rate of 65,070MTPA with a project cost of Rs.19.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 6, 02,200 tonnes. The production in the period of the mining plan will be around 252720 tonnes in 5 years. Therefore, the balance reserves will be (602200 - 252720) or 349480 tonnes. If the production target is 65070 tonnes, the balance reserve will be sufficient for (349480 /65070) or 5.37 years. Thus, the total life of the mine is $5+5.37=10.37$ or say 11 years.

The Project proponent has applied for No Objection Certificate from Divisional Officer, Wildlife Division as sought by SEIAA as the mining is located at a distance of 2.4 kilometres from Narpuh wildlife sanctuary.

Recommendation:

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommended for standard Term of Reference with the following additional conditions:

1. LOI ought to be renewed as the validity has been expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

2. Proposal No.SIA/ML/MIN/64182/2021 submitted by Shri Lamshwa Kyndoh.

The Project Proponent, Shri Lamshwa Kyndoh submitted online application for Term of Reference vide proposal No:SIA/ML/MIN/64182/2021 for Term of Reference for Chetah Lashi Limestone Mine for mining of Lime stone for an area of 2.97 hectares. The proposal is for mining of lime stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of



EIA Notification 2006. The mining lease area is located at Chetah Lashi Lumshnong, East Jaintia Hills District, Meghalaya and toposheet Survey of India No.83C/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
LK1	25° 09' 47.9"N	92° 22' 39.7"E
LK2	25° 09' 47.3"N	92° 22' 39.4"E
LK3	25° 09' 46.0"N	92° 22' 39.1"E
LK4	25° 09' 44.8"N	92° 22' 39.3"E
LK5	25° 09' 43.7"N	92° 22' 39.5"E
LK6	25° 09' 42.7"N	92° 22' 38.6"E
LK7	25° 09' 42.3"N	92° 22' 38.0"E
LK8	25° 09' 41.7"N	92° 22' 36.7"E
LK9	25° 09' 41.6"N	92° 22' 34.7"E
LK10	25° 09' 40.8"N	92° 22' 35.8"E
LK11	25° 09' 39.2"N	92° 22' 35.4"E
LK12	25° 09' 39.4"N	92° 22' 36.5"E
LK13	25° 09' 39.6"N	92° 22' 37.9"E
LK14	25° 09' 39.8"N	92° 22' 38.4"E
LK15	25° 09' 39.9"N	92° 22' 38.8"E
LK16	25° 09' 40.0"N	92° 22' 39.3"E
LK17	25° 09' 41.4"N	92° 22' 41.2"E
LK18	25° 09' 42.9"N	92° 22' 41.8"E
LK19	25° 09' 42.5"N	92° 22' 42.1"E
LK20	25° 09' 42.8"N	92° 22' 43.2"E
LK21	25° 09' 43.4"N	92° 22' 43.7"E
LK22	25° 09' 44.8"N	92° 22' 42.8"E
LK23	25° 09' 46.1"N	92° 22' 42.8"E
LK24	25° 09' 48.6"N	92° 22' 42.7"E
LK25	25° 09' 48.7"N	92° 22' 42.8"E
LK26	25° 09' 48.5"N	92° 22' 42.1"E
LK27	25° 09' 48.4"N	92° 22' 41.4"E
LK28	25° 09' 48.1"N	92° 22' 40.4"E

The proposed mining area is on lease vide Lease Agreement made on the 7th September, 2018 certified by Additional Deputy Commissioner, East Jaintia Hills District, Khliehriat.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/L.K/M.L/2019-20/LS/B/835, dated Jowai, the 10th September, 2020 and letter of Intent vide letter No.JH/L.K/ML/2019-20/LS/B/837 dated Jowai, the 16th September 2020 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/41/MM/Mining Plan/2020-2021/136 dated Jowai, the 8th March 2021 which states that there are five (5) approved mining plans lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of four mines is summed up to 16.136 hectares. The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/41/MM/Mining Plan/2020-21/130 dated Jowai, the 19th January 2021. The Mining Plan has been prepared to extract lime stone at the rate of 125000 TPA with a project cost of Rs.20.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 14, 84,000 tonnes. The production in the period of the mining plan will be around 625000 tonnes in 5 years. Therefore, the balance reserves will be (1484000 - 625000) or 859000 tonnes. If the production target is 125000 tonnes, the balance reserve will be sufficient for (859000 /125000) or 6.872 years. Thus, the total life of the mine is $5+6.872=11.872$ or say 12 years.

The Project proponent has applied for No Objection Certificate from Divisional Officer, Wildlife Division as sought by SEIAA as the mining site is located at a distance of 1.99 kilometres from Narpuh Wildlife Sanctuary.

Recommendation:

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommended for standard Term of Reference with the following additional conditions:

1. LOI ought to be renewed as the validity has been expired.
2. Since the distance between the proposed mine and adjoining mine(s) in the said cluster is hardly 1 metre and nature of Over Burden(OB) is not known, as a precautionary measure, height of the 1st Bench is to be kept low, preferably within 1-3 metre maximum while maintaining width of the bench at 06 -7.5 metre.



3. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

3. Proposal No.SIA/ML/MIN/64420/2021 submitted by Smt. Rejoice Chyne.

The Project Proponent, Smt. Rejoice Chyne submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/64420/2021 for Term of Reference for Ri Jyrkha Limestone Mine for mining of Lime stone for an area of 1.17 hectares. The proposal is for mining of lime stone to be used in kilns for manufacturing of lime used as building materials. The project falls under Schedule I(a) of category B2 of EIA Notification 2006. The mining lease area is located at Ri Jyrkha, Mawlong Elaka, Mawlong Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 05.7"N	91° 41' 12.8"E
2	25° 11' 59.72"N	91° 41' 11.13"E
3	25° 11' 59.25"N	91° 41' 13.26"E
4	25° 12' 04.92"N	91° 41' 14.80"E

The proposed mining area belongs to the project proponent as per sale deed certified by Notary Public, East Khasi Hills on the 26th of June 2020.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri Bhoi Territorial Division, Shillong, vide letter No.KH/8/NOC/Limestone/41/Pt.IV/4516, dated Shillong, the 21st December 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/4537, dated Shillong, the 21st December, 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/107/2021/08 dated Shillong, the 3rd June 2021 which states that there are three (3) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of four mines is summed up to 6.725 hectares. The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/107/2021/04 dated Shillong,

the 19th March 2021. The Mining Plan has been prepared to extract lime stone at the rate of 30500 TPA with a project cost of Rs.23, 50,000 and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 3, 90,200tonnes. The production in the period of the mining plan will be around 152500 tonnes in 5 years. Therefore, the balance reserves will be (390200 - 152500) or 237700 tonnes. If the production target is 30500 tonnes, the balance reserve will be sufficient for (237700 /30500) or 7.79 years. Thus, the total life of the mine is $5+7.79=12.79$ or say 13 years.

Recommendation:

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommended for standard Term of Reference with the following additional conditions:

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

4. Proposal No.SIA/ML/MIN/65773/2021submitted by Shri. Arbis Tangdhara.

The Project Proponent, Shri. Arbis Tangdhara submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/65773/2021for Term of Reference for for Ri Laingut Limestone Mine for mining of Lime stone for an area of 0.66 hectares. The proposal is for mining of lime stone to be used for manufacturing of lime and as building materials for building, road and other construction works.. The project falls under Schedule 1(a) of categoryB1 of EIA Notification 2006. The mining lease area is located at Ri Laingut, Lynti Dkhar, Sohbar village, Sohbar Sirdarship, District- East Khasi Hills, State- Meghalaya and toposheet Survey of India No.780/12 within the following GPS Coordinates:



Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 11' 13.99"N	91° 44' 51.69"E
2	25° 11' 13.96"N	91° 44' 51.86"E
3	25° 11' 9.63"N	91° 44' 48.10"E
4	25° 11' 11.38"N	91° 44' 46.25"E

The proposed mining area is on lease for 30 years vide lease agreement made on 18th February 2019 certified by Sub-Registrar, Sohra, East Khasi Hills.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri Bhoi Territorial Division, Shillong, vide letter No.KH/8/NOC/Limestone/41/Pt.IV/6267, dated Shillong, the 30th March 2021 and letter of Intent vide letter No.KH/8/ML/Limestone/68/6272, dated Shillong, the 30th March 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/120/2021/07 dated Shillong, the 15th July 2021 which states that there are eleven (11) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of twelve mines is summed up to 25.7715 hectares. The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/120/2021/04 dated Shillong, the 2nd July 2021. The Mining Plan has been prepared to extract lime stone at the rate of 14450 TPA with a project cost of Rs. 21 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 1,59,500 tonnes. The production in the period of the mining plan will be around 72,250 tonnes in 5 years. Therefore, the balance reserves will be (159500 - 72250) or 87250 tonnes. If the production target is 14450 tonnes, the balance reserve will be sufficient for (87250/14450) or 6.03 years. Thus, the total life of the mine is 5+6.03=11.03 or say 11 years.

Recommendation:

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommended for standard Term of Reference with the following additional conditions:

1. Since the distance between the proposed mine and adjoining mine(s) in the said cluster is hardly 1 metre and nature of Over Burden(OB) is not known, as a precautionary measure, height of the 1st Bench is to be kept low, preferably within 1-3 metre maximum while maintaining width of the bench at 06 -7.5 metre.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

5. Proposal No.SIA/ML/MIN/65059/2021 submitted by Shri Sangip M. Marak Limestone Mine.

The Project Proponent, Shri Sangip M Marak submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/65059/2021 for Term of Reference for Ri Jyrkha Limestone Mine for mining of Lime stone for an area of 1.84 hectares. The proposal is for mining of lime stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Ri Jyrkha, Mawlong Elaka, Mawlong Sirdarship, East Khasi Hills District, Meghalaya and top sheet Survey of India No.78O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 06.6"N	91° 41' 07.1"E
2	25° 12' 06.9"N	91° 41' 08.7"E
3	25° 11' 54.0"N	91° 41' 07.0"E
4	25° 11' 53.9"N	91° 41' 05.2"E

The proposed mining area is on lease for 30 years vide affidavit made on 17th October 2020 at Shillong certified by Notary Public, East Khasi Hills.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri Bhoi Territorial Division, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt.IV/4343, dated Shillong, the 15th December, 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/4384 dated Shillong, the 15th December 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/108/2021/08 dated Shillong, the 9th June 2021 which states that there are three (3) approved mining plans lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area four mines is summed up to 6.725 hectares. The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/108/2021/04 dated Shillong, the 8th April 2021. The Mining Plan has been prepared to extract lime stone at the rate of 62467 TPA with a project cost of Rs. 27.50 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 624729 tonnes with an average annual production of 62473(624729/10) tonnes. The average annual production of limestone may be different from annual production of five year plan period. Thus 312076 tonnes of the total mineable reserve will be worked out in first five years and the rest quantity of mineable reserves i.e. (62479 – 312076) = 312653 tonnes would be exhausted in further 5 years @ 62531 tonnes per annum. Therefore, life of the mine will be 10(five years in plan period +5 years in conceptual period).

Recommendation:

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommended for standard Term of Reference with the following additional conditions:

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

The meeting ended with a vote of thanks to the Chair


Chairman

State Expert Appraisal Committee
Meghalaya Shillong