

**MINUTES OF THE 8th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 12<sup>th</sup>, 13<sup>TH</sup> and 14<sup>TH</sup> AUGUST 2013**

The 8th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 12<sup>th</sup>, 13<sup>th</sup> & 14<sup>th</sup> August 2013 under the Chairmanship of Sh. A.K. Saxena in the Conference Room at 170 C, Ashok Nagar, Ranchi. The following members were present:

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|----|-------------------------|--|
| 1. | Sh. S.B.S Chauhan       | - Member   |
| 2. | Dr. R.P. Singh Sangu    | - Member   |
| 3. | Prof. (Dr.) M.C. Mahata | - Member   |
| 4. | Er. S.K. Singh          | - Member   |
| 5. | Prof.(Dr.) S.K. Singh   | - Member   |
| 6. | Sh. S.K. Sinha          | - Secretary (Not present on 12 <sup>th</sup> August) |

At the outset the members of the committee went through the Minutes of 7th Meeting held on 16<sup>th</sup>, 17<sup>th</sup> & 18<sup>th</sup> July 2013 and confirmed the same. After confirmation of the minutes the following points were deliberated and agreed to.

1. Site visit is to be undertaken in some cases. It was decided that following visits will be undertaken to acquaint about the existing conditions so that in case site specific points are to be included while recommending cases to SEIAA the same could be identified.
  - i) A team consisting of Shri S B S Chauhan and Shri S K Singh Members, SEAC Jharkhand will visit Bauxite mines in Gumla and Lohardaga areas and appraise the committee about their current status. This visit will be planned in continuation of next meeting of SEAC.
  - ii) A team consisting of Dr M C Mahata and Dr Shatrunjay Kumar Singh Members, SEAC Jharkhand will visit Domchanch area to assess the conditions there. This visit will be planned in continuation of one of the forthcoming meeting of SEAC.
  - iii) A team consisting of Shri R P S Sangu and Dr Shatrunjay Kumar Singh Members, SEAC Jharkhand will visit Shahibgunj area to assess the conditions there. This will be planned in continuation of one of the forthcoming meeting of SEAC.
  - iv) A team consisting of Shri A K Saxena and Shri S K Sinha, Chairman and Secretary, SEAC Jharkhand will visit Soapstone mine in Jamshedpur and also Chaibasa area to assess the conditions there. This will be planned in continuation of one of the forthcoming meeting of SEAC.
  - v) A team consisting of Shri R P S Sangu and Shri S B S Chauhan Members, SEAC Jharkhand will visit Stone mining areas near Ranchi to assess the conditions there. This will be planned in continuation of one of the forthcoming meeting of SEAC.
2. Shri A.K. Saxena, Chairman, SEAC briefed the Committee about his interaction with Chairman and Member Secretary of SEIAA, Gujarat and Chairman and Secretary SEAC Gujarat. He also appraised the Committee about his interaction with Chairman, SEIAA, Odisha and members of SEAC. Odisha. Prof Dr Shatrunjay Singh briefed the Committee about his interactions at Patna and Shri Sanjay Kumar Sinha, Secretary, SEAC briefed about his interaction with Secretary, SEAC, West Bengal. A Report based on the above referred interactions will be prepared and circulated.

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Various projects which were received by SEIAA after the previous SEAC meeting held on 16<sup>th</sup>, 17<sup>th</sup> and 18<sup>th</sup> July 2013 and forwarded to SEAC on 10<sup>th</sup> August 2013 for their technical appraisal came up for discussions. Also those Projects which were appraised in SEAC's earlier meetings in which PP's were asked to provide additional information / clarifications were also considered for examination / scrutiny where the Project proponents had submitted replies. Accordingly, the Project proponents were asked to make technical presentation for the appraisal of their project before the committee.

The following observations were made during the Presentation (Project Wise).

## **A. Projects recommended to SEIAA for consideration of grant of EC:**

### **1. Stone Mining Project of Smt Vidya Devi in respect of Dungra Stone Mines at Village Dungra, P S Khunti, Dist – Khunti, Jharkhand (Area 3.34 Ha).**

This is a Stone Mining Project having proposed renewal of earlier mining lease area of 3.34 Ha over plot Nos. 428, 440, 470, 471, 472, 473, 488, 490, 539 and 540 which has expired on 29.06.2013. The Committee noted that this project falls under 'B2' Category. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was asked to submit certain information / clarifications. The PP has submitted the same. The Committee examined the same and found that all information / data has been provided. The Committee was satisfied with the replies.

The details of mine capacity as provided in Mining Plan are

i. Mineable Proved Reserve	:	973053 t
ii. Mineable Probable Reserve	:	137147 t
iii. Total Mineable Reserve	:	1110200 t

Year-wise Production as proposed under Mining Plan for five years is as follows

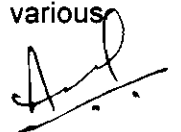
1 <sup>st</sup> Year	:	57707 t
2 <sup>nd</sup> Year	:	59978 t
3 <sup>rd</sup> Year	:	59883 t
4 <sup>th</sup> Year	:	63113 t
5 <sup>th</sup> Year	:	55598 t

As per Form 1 submitted by PP the current production rate was 40 t / day and after renewal it would go up to 200 t / day.

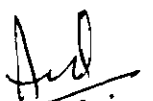
**Based on the information provided the Committee recommends that the proposal of Smt Vidya Devi in respect of Dungra Stone Mines at Village Dungra, P S Khunti, Dist – Khunti, Jharkhand (Area 3.34 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC are given below.**

#### **A. Specific Conditions**

- 1 The environmental clearance is subject to renewal of mining lease by the Department of Mines, Government of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.



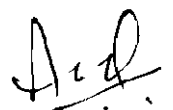
2. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.
3. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
4. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
5. The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand shall be obtained. Benches height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per SEIAA guidelines.
6. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
7. The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating/passing through the mine lease area during the course of mining operation.
8. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
9. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
10. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
11. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
12. Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. Work has to be taken up before this year monsoon.
13. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
14. The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand.



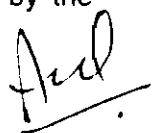
15. The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
16. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand.
17. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.
18. No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
19. Drills shall either be operated with the dust extractors or equipped with water injection system.
20. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
21. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
22. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
23. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
24. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
25. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
26. That the proponent shall obtain approval of mining plan within 3 months from the committee constituted by the Deptt. of Mines & Geology, Govt. of Jharkhand from the date of grant of environmental clearance and the proponent shall be bound to comply the additional conditions framed by the Deptt. of Mines & Geology.
27. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein

## **B. General conditions**

1. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.



3. The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
4. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
5. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
6. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
7. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
8. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
9. Dispensary facilities for First Aid shall be provided at site.
10. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
11. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi .
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.



16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along the status of compliance of EC conditions and shall also be submitted to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of lease renewal (10 years) for the mines. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance..
3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**2. Stone Mining Project of M / s Hiralal & Company in respect of Koenjari Stone Quarry at Village Koenjari, P S Khunti, Tehsil Namkum District Ranchi, Jharkhand (Area 2.18 Ha).**

This is a Stone Mining Project for EC due to transfer of mining lease area of 2.18 Ha over plot Nos. 586 (P). The lease has been sanctioned for a period from 14.03.2012 to 7.12.2018. The Committee noted that this project falls under 'B2' Category. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was asked to submit certain information / clarifications. The PP has submitted the same. The Committee examined the same and found that all information / data has been provided. The Committee was satisfied with the replies.

The details of mine capacity as provided in Mining Plan are

I.	Mineable Proved Reserve	:	708021 t
II.	Mineable Probable Reserve	:	4644 t
III.	Total Mineable Reserve	:	712665 t



Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	150314 t
2 <sup>nd</sup> Year	:	140270 t
3 <sup>rd</sup> Year	:	139261 t
4 <sup>th</sup> Year	:	157510 t
5 <sup>th</sup> Year	:	121703 t

As per Form 1 submitted by PP the current production rate was 1000 t / day and after renewal it would be 525 t / day.

**Based on the information provided the Committee recommends that the proposal of of M / s Hiralal & Company in respect of Koenjari Stone Quarry at Village Koenjari, P S Khunti, Tehsil Namkum District Ranchi, Jharkhand (Area 2.18 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions suggested for grant of EC are given below.**

#### **A. Specific Conditions**

1. The environmental clearance is subject to transfer of mining lease by the Department of Mines, Government of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.
3. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
4. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
5. The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand shall be obtained. Benches height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per SEIAA guidelines.
6. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
7. The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating/passing through the mine lease area during the course of mining operation.
8. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
9. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.

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10. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
11. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
12. Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. Work has to be taken up before this year monsoon.
13. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
14. The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand.
15. The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
16. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand.
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20. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
21. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
22. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
23. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.





24. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
25. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
26. That the proponent shall obtain approval of mining plan within 3 months from the committee constituted by the Deptt. of Mines & Geology, Govt. of Jharkhand from the date of grant of environmental clearance and the proponent shall be bound to comply the additional conditions framed by the Deptt. of Mines & Geology.
27. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein.

#### **B. General conditions**

1. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
3. The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
4. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
5. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
6. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
7. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
8. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
9. Dispensary facilities for First Aid shall be provided at site.
10. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
11. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi .

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12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

### **C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the balance lease period i.e upto 06.12.2018. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.. .
3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.



5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**3. Stone Quarry of Shri Jagdip Agarwala at Village Baghmara, P S Baliapur, Dist – Dhanbad, Jharkhand (Area 0.81 Ha).**

The committee noted that as per Form I it is a proposal for a new Project. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was asked to submit certain information / clarifications. The PP has submitted the same. The Committee examined the same and found that all information / data has been provided. The Committee was satisfied with the replies except for non clarity in certificate issued by DMO. PP was advised to get the same revised and submit same by 24.08.2013. so that his case can be recommended to SEIAA for issue of EC. PP submitted the same on 23.08.2013 which was found in order.

The details of mine capacity as provided in Mining Plan are

i.	Mineable Proved Reserve	:	1080000 t
ii.	Mineable Probable Reserve	:	1000000 t
iii.	Mineable Possible Reserve	:	9600000 t
iv.	Total Mineable Reserve	:	11680000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	120000 t
3 <sup>rd</sup> Year	:	120000 t
4 <sup>th</sup> Year	:	120000 t
5 <sup>th</sup> Year	:	120000 t

**Note:** (During the 1<sup>st</sup> year removal of 6000 m<sup>3</sup> of Soil, weathered rocks and sub grade stone will be carried out. The exposed stone face will be cleaned properly)

As per Mine plan the proposed production rate is 400 t /day

**Based on the information provided the Committee recommends that the proposal of Shri Jagdip Agarwala at Village Baghmara, P S Baliapur, Dist – Dhanbad, Jharkhand (Area 0.81 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions suggested for grant of EC are given below.**

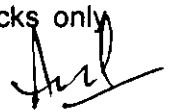
**A. Specific Conditions**

1. The environmental clearance is subject to grant of mining lease by the Department of Mines, Government of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.
3. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.

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4. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
5. The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand shall be obtained. Bench height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per SEIAA guidelines.
6. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
7. The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating/passing through the mine lease area during the course of mining operation.
8. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
9. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
10. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
11. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
12. Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. Work has to be taken up before this year monsoon.
13. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
14. The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand.
15. The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
16. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand.
17. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only



and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.

18. No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
19. Drills shall either be operated with the dust extractors or equipped with water injection system.
20. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
21. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
22. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
23. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
24. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
25. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
26. That the proponent shall obtain approval of mining plan within 3 months from the committee constituted by the Deptt. of Mines & Geology, Govt. of Jharkhand from the date of grant of environmental clearance and the proponent shall be bound to comply the additional conditions framed by the Deptt. of Mines & Geology.
27. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein

#### **B. General conditions**

- 1 No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
- 2 No change in the calendar plan including excavation, quantum of mineral and waste should be made.
- 3 The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
- 4 The Project proponent shall maintain register for production and dispatch and submit return to the Board.
- 5 The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.




- 6 Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
- 7 Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
- 8 Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- 9 Dispensary facilities for First Aid shall be provided at site.
- 10 A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- 11 The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi .
- 12 The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.



### C. Other points

- 1 The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- 2 The Environmental Clearance accorded shall be valid for the proposed lease period (10 years) for the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
- 3 In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
- 4 The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
- 5 Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

#### 4. Stone Quarry of Shri Golak Mondal at Village Dardaha, Thana Baliapur, Dist Dhanbad, Jharkhand (Area 0.64 Ha).

The committee noted that as per Form I it is a proposal for a case of renewal. The earlier lease was executed on 17<sup>th</sup> January 2003. The mine is being operated by Sh Vivek Kumar Agrawal based on Power of Attorney given by Shri Golak Mondal. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was asked to submit certain information / clarifications. The certificate provided by DMO was not clear. PP was advised to get the same revised and submit same by 24.08.2013. PP has also to submit a Compliance Report on conditions stipulated by DMO at the time of granting of lease so that his case can be recommended to SEIAA for issue of EC. PP submitted the same vide DMO Letter No 879 dated 22.08.2013 on 23.08.2013 which was found in order.

The details of mine capacity as provided in Mining Plan are

i.	Mineable Proved Reserve	:	3,10,000 t
ii.	Mineable Probable Reserve	:	2,80,000 t
iii.	Mineable Possible Reserve	:	2,50,000 t
iv.	Total Mineable Reserve	:	8,40,000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	60,000 t
3 <sup>rd</sup> Year	:	60,000 t
4 <sup>th</sup> Year	:	60,000 t
5 <sup>th</sup> Year	:	60,000 t

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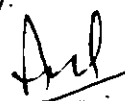
**Note:** (During the 1<sup>st</sup> year removal of 4000 m<sup>3</sup> of Soil, weathered rocks and sub grade stone will be carried out. The exposed stone face will be cleaned properly)

As per NOC granted by JSPCB on 12.01.2013 the production rate was to be 1500 cft per day i.e. 42.5m<sup>3</sup> per day or 115 t / day and as per Form 1 submitted the production rate after renewal would be 200 t / day

**Based on the information provided the Committee recommends that the proposal of Shri Golak Mondal at Village Dardaha, Thana Baliapur, Dist Dhanbad, Jharkhand (Area 0.64 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC are given below.**

#### **A. Specific Conditions**

1. The environmental clearance is subject to renewal of mining lease by the Department of Mines, Government of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.
3. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
4. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
5. The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand shall be obtained. Bench height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per SEIAA guidelines.
6. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
7. The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating/passing through the mine lease area during the course of mining operation.
8. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
9. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
10. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.





11. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
12. Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. Work has to be taken up before this year monsoon.
13. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
14. The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand.
15. The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
16. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand.
17. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.
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21. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
22. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
23. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
24. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
25. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.

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26. That the proponent shall obtain approval of mining plan within 3 months from the committee constituted by the Deptt. of Mines & Geology, Govt. of Jharkhand from the date of grant of environmental clearance and the proponent shall be bound to comply the additional conditions framed by the Deptt. of Mines & Geology.
27. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein

#### **B. General conditions**

- 1 No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
- 2 No change in the calendar plan including excavation, quantum of mineral and waste should be made.
- 3 The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
- 4 The Project proponent shall maintain register for production and dispatch and submit return to the Board.
- 5 The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
- 6 Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
- 7 Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
- 8 Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- 9 Dispensary facilities for First Aid shall be provided at site.
- 10 A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- 11 The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi .
- 12 The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
- 13 The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in

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hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.

- 14 The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO2 ,NOx (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
- 15 A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
- 16 The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
- 17 All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

- 1 The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- 2 The Environmental Clearance accorded shall be valid for the period of lease renewal (10 years) for the mines. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.. .
- 3 In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
- 4 The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
- 5 Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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**5. Stone Quarry of Md. Mojammil Ahmed at Village Jangalpur, Tehsil Govindpur, Dist Dhanbad, Jharkhand (Area 2.4281 Ha).**

The committee noted that this is a proposal for renewal of lease. The earlier lease was executed on 30th July 2002. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was asked to submit certain information / clarifications which he has submitted. The Committee noted that PP has also to submit a Compliance Report on NOC conditions stipulated by JSPCB. The certificate provided by DMO was not clear. PP was advised to get the same revised and submit same by 24.08.2013. PP submitted the same vide DMO, Dhanbad letter No 858 dated 14.08.2013 on 23.08.2013 which were found to be in order. Regarding RQP it was noted that Shri Sunil Madhab Patro is registered with IBM and his certificate was valid upto 07.04.2021. PP was advised that RQP should get himself registered with Department of Mines, Government of Jharkhand. In the meantime the Committee agreed to forward its recommendation to SEIAA for its consideration.

The details of mine capacity as provided in Mining Plan are

i.	Indicated Mineral Reserves	:	9,02,894 t
ii.	Feasible Mineral Reserves	:	3,88,743 t
iii.	Inferred Mineral Reserves	:	2,86,213 t
iv.	Total Mineral Resources	:	15,77,850 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	13,797 t
2 <sup>nd</sup> Year	:	21,330 t
3 <sup>rd</sup> Year	:	23,949 t
4 <sup>th</sup> Year	:	27,945 t
5 <sup>th</sup> Year	:	28,188 t

As per NOC granted by JSPCB on 22.12.2011 the production rate was to be 600 cft per day i.e. 17 m<sup>3</sup> per day or 46 t / day and as per Form 1 submitted the production rate after renewal would be 94 t / day (based on production of 28,188 TPA and 300 working days)

**Based on the information provided the Committee recommends that the proposal of Md. Mojammil Ahmed at Village Jangalpur, Tehsil Govindpur, Dist Dhanbad, Jharkhand (Area 2.4281 Ha) be recommended for consideration of SEIAA for grant of EC. SEIAA may look into the issue related to registration of RQP with Department of Mines, Government of Jharkhand. The various conditions suggested for grant of EC are given below.**

**A. Specific Conditions**

- 1 The environmental clearance is subject to renewal of mining lease by the Department of Mines, Government of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
- 2 No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.

- 3 Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
- 4 Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
- 5 The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand shall be obtained. Bench height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per SEIAA guidelines.
- 6 PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
- 7 The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating/passing through the mine lease area during the course of mining operation.
- 8 The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- 9 There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
- 10 Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
- 11 Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
- 12 Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. Work has to be taken up before this year monsoon.
- 13 Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- 14 The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand.
- 15 The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
- 16 Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand.

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- 17 Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.
- 18 No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- 19 Drills shall either be operated with the dust extractors or equipped with water injection system.
- 20 Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
- 21 Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 22 The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
- 23 Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- 24 Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
- 25 A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
- 26 That the proponent shall obtain approval of mining plan within 3 months from the committee constituted by the Deptt. of Mines & Geology, Govt. of Jharkhand from the date of grant of environmental clearance and the proponent shall be bound to comply the additional conditions framed by the Deptt. of Mines & Geology.
- 27 The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein

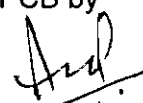
#### **B. General conditions**

- 1 No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
- 2 No change in the calendar plan including excavation, quantum of mineral and waste should be made.
- 3 The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
- 4 The Project proponent shall maintain register for production and dispatch and submit return to the Board.

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- 5 The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
- 6 Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
- 7 Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
- 8 Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- 9 Dispensary facilities for First Aid shall be provided at site.
- 10 A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- 11 The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi .
- 12 The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
- 13 The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
- 14 The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO2 ,NOx (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
- 15 A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
- 16 The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.



17 All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

- 1 The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
  - 2 The Environmental Clearance accorded shall be valid for the period of lease renewal (05 / 10 years applied) for the mines. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.. .
  - 3 In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
  - 4 The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
  - 5 Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 6. Stone Quarry of Md. Afjal Ansari at Village Jangalpur, Tehsil Govindpur, Dist Dhanbad, Jharkhand (Area 1.3031 Ha).**

The committee noted that this is a proposal for renewal of lease. The earlier lease was initialed on 30th July 2002. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was asked to submit certain information / clarifications which he has submitted. The Committee noted that PP has also to submit a Compliance Report on NOC conditions stipulated by JSPCB. The certificate provided by DMO was not clear. PP was advised to get the same revised and submit same by 24.08.2013. PP submitted the same vide DMO, Dhanbad letter No 875 dated 14.08.2013 on 23.08.2013 which were found to be in order. Regarding RQP it was noted that Shri Sunil Madhab Patro is registered with IBM and his certificate was valid upto 07.04.2021. PP was advised that RQP should get himself registered with Department of Mines, Government of Jharkhand. In the meantime the Committee agreed to forward its recommendation to SEIAA for its consideration.

The details of mine capacity as provided in Mining Plan are

i.	Indicated Mineral Reserves	:	6,44,679 t
ii.	Feasible Mineral Reserves	:	6,54,961 t
iii.	Inferred Mineral Reserves	:	3,29,845 t
iv.	Total Mineral Resources	:	16,29,485 t



Year-wise Production as proposed under Mining Plan for five years is as follows

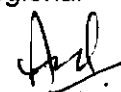
1 <sup>st</sup> Year	:	12,857 t
2 <sup>nd</sup> Year	:	15,525 t
3 <sup>rd</sup> Year	:	15,997 t
4 <sup>th</sup> Year	:	16,646 t
5 <sup>th</sup> Year	:	21,397 t

As per NOC granted by JSPCB on 20.07.2012 the production rate was to be 1200 cft per day i.e. 34 m<sup>3</sup> per day or 92 t / day and as per Form 1 submitted the production rate after renewal would be 71 t / day (based on production of 21397 TPA and 300 working days)

**Based on the information provided the Committee recommends that the proposal of Md. Afjal Ansari at Village Jangalpur, Tehsil Govindpur, Dist Dhanbad, Jharkhand (Area 1.3031 Ha) be recommended for consideration of SEIAA for grant of EC. SEIAA may look into the issue related to registration of RQP with Department of Mines, Government of Jharkhand. The various conditions suggested for grant of EC are given below.**

#### **A. Specific Conditions**

- 1 The environmental clearance is subject to renewal of mining lease by the Department of Mines, Government of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
- 2 No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.
- 3 Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
- 4 Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
- 5 The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand shall be obtained. Bench height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per SEIAA guidelines.
- 6 PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
- 7 The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating/passing through the mine lease area during the course of mining operation.
- 8 The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- 9 There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.



- 10 Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
- 11 Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
- 12 Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. Work has to be taken up before this year monsoon.
- 13 Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- 14 The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand.
- 15 The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
- 16 Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand.
- 17 Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.
- 18 No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- 19 Drills shall either be operated with the dust extractors or equipped with water injection system.
- 20 Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
- 21 Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 22 The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
- 23 Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

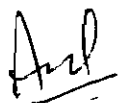
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- 24 Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
- 25 A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
- 26 That the proponent shall obtain approval of mining plan within 3 months from the committee constituted by the Deptt. of Mines & Geology, Govt. of Jharkhand from the date of grant of environmental clearance and the proponent shall be bound to comply the additional conditions framed by the Deptt. of Mines & Geology.
- 27 The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein

### **B. General conditions**

- 1 No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
- 2 No change in the calendar plan including excavation, quantum of mineral and waste should be made.
- 3 The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
- 4 The Project proponent shall maintain register for production and dispatch and submit return to the Board.
- 5 The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
- 6 Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
- 7 Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
- 8 Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- 9 Dispensary facilities for First Aid shall be provided at site.
- 10 A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- 11 The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi .



- 12 The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
- 13 The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
- 14 The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO2 ,NOx (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
- 15 A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
- 16 The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
- 17 All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

- 1 The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- 2 The Environmental Clearance accorded shall be valid for the period of lease renewal (05 / 10 years applied) for the mines. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.. .
- 3 In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
- 4 The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.

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*And*

5 Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**7. Bakhari Stone Mine of M /s Tiwary Minerals Company at Village Baralota, P.S. Sadar Medninagar, Dist – Palamu, Jharkhand (Area 0.93 Ha).**

This is a Stone Mining Project for a fresh mining lease area of 0.93 Ha. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was asked to submit certain information / clarifications. The PP has submitted the same. The Committee was satisfied with the replies except for non clarity in certificate issued by DMO. PP was advised to get the same revised and submit the same by 24.08.2013 so that his case can be recommended to SEIAA for consideration of issue of EC. PP has submitted the letter from DMO vide letter no 578 dated 07.08.2013 which is in order.

The details of mine capacity as provided in Mining Plan are

i. Mineable Proved Reserve	:	232750 t
ii. Mineable Probable Reserve	:	95000 t
iii. Mineable Possible Reserve	:	47500 t
iv. Total Mineable Reserve	:	375250 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	45,770 t
2 <sup>nd</sup> Year	:	45,030 t
3 <sup>rd</sup> Year	:	42,492 t
4 <sup>th</sup> Year	:	42,640 t
5 <sup>th</sup> Year	:	40,005 t

As per Form I the proposed production rate is 155 t / day.

**Based on the information provided the Committee recommends that the proposal of Bakhari Stone Mine of M /s Tiwary Minerals Company at Village Baralota, P.S. Sadar Medninagar, Dist – Palamu, Jharkhand (Area 0.93 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions suggested for grant of EC are given below.**

**A. Specific Conditions**

- 1 The environmental clearance is subject to grant of mining lease by the Department of Mines, Government of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
- 2 No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.
- 3 Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
- 4 Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.

- 5 The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand shall be obtained. Bench height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per SEIAA guidelines.
- 6 PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
- 7 The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating/passing through the mine lease area during the course of mining operation.
- 8 The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- 9 There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
- 10 Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, and other water bodies. The water so collected should be utilized for watering the mine area, haul roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
- 11 Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
- 12 Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. Work has to be taken up before this year monsoon.
- 13 Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- 14 The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand.
- 15 The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
- 16 Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand.
- 17 Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.

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- 18 No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- 19 Drills shall either be operated with the dust extractors or equipped with water injection system.
- 20 Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
- 21 Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 22 The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
- 23 Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- 24 Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
- 25 A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
- 26 That the proponent shall obtain approval of mining plan within 3 months from the committee constituted by the Deptt. of Mines & Geology, Govt. of Jharkhand from the date of grant of environmental clearance and the proponent shall be bound to comply the additional conditions framed by the Deptt. of Mines & Geology.
- 27 The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein

#### **B. General conditions**

- 1 No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
- 2 No change in the calendar plan including excavation, quantum of mineral and waste should be made.
- 3 The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
- 4 The Project proponent shall maintain register for production and dispatch and submit return to the Board.
- 5 The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
- 6 Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.



- 7 Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
- 8 Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- 9 Dispensary facilities for First Aid shall be provided at site.
- 10 A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- 11 The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi .
- 12 The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
- 13 The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
- 14 The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NOx (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
- 15 A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
- 16 The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
- 17 All statutory clearances shall be obtained before start of mining operations.



### C. Other points

- 1 The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- 2 The Environmental Clearance accorded shall be valid for the proposed lease period (10 years) for the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
- 3 In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
- 4 The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
- 5 Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

### B. Projects recommended to SEIAA for consideration of issue of TOR.

#### 1. M/s. Chanduka Minerals Kumarda, Chheri – Pahari, Rajnagar District Saraikela – Kharsawan, Jharkhand Quartz / quartzite Mine (Area 10.117 Ha).

This is an open cast Quartz / quartzite mine project having lease area of 10.117 ha. As per the information provided by the proponent in the Form I, this is a new lease. During the Meeting held on 17<sup>th</sup> & 18<sup>th</sup> June 2013 the PP was asked to submit certain information which he has duly complied. Regarding Discrepancy in mention of Plot numbers PP's Consultant during the meeting on 14<sup>th</sup> August 2013 informed that the PP has requested Sub Registrar to get the same rectified and requested for issue of TOR. The Committee agreed to issue TOR and asked the Consultant to get a letter from PP informing the present condition by 24.08.2013. M/s Chanduka has submitted a letter on 21<sup>st</sup> August to the above effect. As per the decision taken in the Meeting it is recommended that the TOR's may be issued.

**Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meetings held in 17<sup>th</sup> – 18<sup>th</sup> June 2013, 16<sup>th</sup>, 17<sup>th</sup> and 18<sup>th</sup> July 2013 and during 12<sup>th</sup> to 14<sup>th</sup> August, 2013 the Committee suggests the following TORs for consideration of SEIAA for undertaking detailed EIA/EMP study:**

- 1 A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be included in the EIA Report.



- 2 All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology and should be in the name of the lessee.
- 3 All corner coordinates of the mine lease area superimposed on High Resolution Imagery / toposheet should be provided.
- 4 Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- 5 Does the Environment Policy prescribe for standard operating process/procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- 6 What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
- 7 Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
- 8 The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc should be for the life of the mine / lease period.
- 9 Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary and national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated.
- 10 Land use plan of the mine lease area should be prepared to encompass Pre-operational, operational and post operational phases and submitted.
- 11 Details of the land for OB dump outside the mine lease such as extent of land area, distance from mine lease, its land use, R&R issues, if any should be given.
- 12 High Resolution Satellite Imagery of the proposed area clearly showing the land use and other ecological features of the study area (core and buffer zone) should be furnished.
- 13 A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any in the project area, or otherwise, based on land use classification (revenue record) as also in terms of the definition of forest as pronounced in the judgment of the Hon'ble Supreme Court of India in the matter of T.N. Godavarman Vs. Union of India. In the event of any claim by the project proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 14 Status of forestry clearance for the broken up area and virgin forestland involved in the project including deposition of net present value (NPV) and compensatory afforestation (CA). A copy of the forestry clearance should also be furnished.
- 15 Implementation of status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.

- 16 Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required should be worked out with cost implications and submitted.
- 17 The vegetation in the RF / PF area with necessary details should be given.
- 18 A study shall be got done to ascertain the impact of the mining project on wildlife of the area including on the elephant population and details furnished.
- 19 Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished. In case, there is no such Eco-sensitive area within 10 km, the boundary of the nearest Eco-sensitive area with its distance shall be marked in a drawing and included in EIA / EMP Report.
- 20 A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on primary field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 21 Impact, if any, of change of land use should be given.
- 22 R&R plan / compensation details for the project affected people should be furnished. While preparing the R&R plan, the Jharkhand State and National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs / STs and other weaker sections, need based sample survey, family-wise, should be undertaken to assess their requirement and action programmes prepared accordingly integrating the sectoral programme of line departments of the State Government.
- 23 Collection of one season (non-monsoon) primary baseline data on ambient air quality, water quality, noise level, soil and flora and fauna. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. The mineralogical composition of RSPM/SPM particularly for free silica should be given. There should be at least one monitoring station within 500 m of the mine lease in the predominant downwind direction. The mineralogical composition of PM10 particularly for free silica should be given.
- 24 Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 25 The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should be indicated.



- 26 Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
- 27 Details of water conservation measures proposed to be adopted in the project should be given.
- 28 Impact of the project on the water quality both surface and groundwater should be assessed and necessary safeguard measures, if any required should be provided.
- 29 Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed hydro geological study should be undertaken and report furnished. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 30 Details of any stream, seasonal or otherwise, passing through lease area and modification / diversion proposed, if any and the impact of the same on the hydrology should be brought out.
- 31 Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand.
- 32 Information on site elevation, working depth, groundwater table etc. should be provided both in AMSL and below ground level. A schematic diagram may also be provided for the same.
- 33 Quantity of solid waste generation to be estimated and details for its disposal and management should be provided. The quantity, volumes and methodology planned for removal and utilisation (preferably concurrently) of top soil should be indicated. Details of backfilling proposed, if any, should also be given. It may be clearly indicated that out of the total waste generated during the mine life, how much quantity would be backfilled and how much quantity would be disposed off in the form of external dump (number of dumps, their height, terraces etc. to be brought out).
- 34 The reclamation plan, mine closure plan, post mine land use and progressive greenbelt development plan shall be prepared in tabular form (prescribed format) and submitted.
- 35 Impact on local transport infrastructure due to the project should be indicated. Projected increase in truck traffic as a result of the project in the present road network (including those outside the project area) should be worked out, indicating whether it is capable of handling the increased load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
- 36 Details of the infrastructure facilities to be provided for the mine workers should be included in the EIA report.
- 37 Conceptual post mining land use and Reclamation and Rehabilitation of mined out area (with plans and with adequate number of sections) should be given in the EIA report.
- 38 Phase-wise plan of greenbelt development, plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.
- 39 Occupational health impact of project should be anticipated and preventive measures initiated. Details in this regard should be provided. Details of preplacement medical examination and periodical medical examination schedules should be incorporated in the EMP.

- 40 Public health implication of the project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocation.
- 41 Measures of socio economic significance and influence to the local community proposed to be provided by project proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
- 42 Detailed environmental management plan to mitigate the environmental impacts which, should inter-alia also include the impact due to change of land use, due to loss of agricultural land and grazing land, if any, occupational health impacts besides other impacts of the projects.
- 43 Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 44 Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
- 45 The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.

Besides the above, the below mentioned general points should also be followed:-

- a) A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- b) All documents may be properly referenced with index and continuous page numbering.
- c) Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- d) Where the documents provided are in a language other than English, an English translation should be provided.
- e) The Questionnaire for environmental appraisal of mining projects as prescribed by the Ministry shall also be filled and submitted.
- f) Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
- g) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013 /41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH process again with the revised documentation.



The EIA report should also include

1. surface plan of the area indicating Contours of main topographic features, drainage and mining area,
2. geological maps and sections and
3. sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

The prescribed TORs would be valid for a period of two years for submission of the EIA / EMP reports, as per the O.M. No. J-11013/41/2006-IA.II(I) dated 22.3.2010.

After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.

## **2. Stone Mining Project of M/s Shree Balaji Enterprises at Village Ichadag , P.O. Ormanjhi, Dist – Ranchi Jharkhand (Area 5.67 Ha).**

This is a Mining Project having a lease area of 5.67 Ha. The mine was in operation and the lease was with M/s Balaji Minerals. M/s Balaji Minerals indentured the same to M/s Shree Balaji Enterprises on 17<sup>th</sup> April 2010 for an area of 14 acres i.e. 5.67 Ha. The lease was transferred to M/s Shree Balaji Enterprises upto 1.07.2012 i.e. the unexpired period of the said lease. The Committee also noted that the PP had applied to MOEF on 13.07.2012 seeking EC for an area of 12 acres i.e. 4.86 Ha. In the Executive Summary submitted along with the application they have shown a production figure of 422,244 tonnes per year. As per Executive Summary the total Mineral resources are 34,08,405 tonnes and mineable reserves are 11,86,251 tonnes. The life of mine has been indicated as 3 years based on 295 working days. This project falls under 'B2' Category MOEF forwarded the application to SEIAA, Jharkhand for its consideration for issuance EC. The mine is located between 85°29' 01.1" E to 85°29' 01.1" E and 23°32' 36.7" N to 23°32' 49.9" N.

The Committee noted that the Proposal is for obtaining Prior Environmental Clearance (TOR) for renewal of lease and is also a case of violation as the PP has been increasing production every year after EIA Notification of 2006 came into being and the PP was carrying out mining at enhanced capacity after EIA Notification 2006 without an EC.

For the purpose of obtaining Prior Environmental Clearance (TOR) the Proponent had submitted information in the prescribed format (Form-1) along with a Pre-feasibility Report. PP had also submitted the various details as per Annexure I & Annexure II of SEIAA Guidelines. It was also observed that the PP had applied to DC Ranchi for surrender of 2 acres of lease area which as per PP was not exploited. However the committee noted that there is no letter confirming reduction of area. The committee also felt that the 2 acres area is contiguous and if added will exceed the limit of 5 Ha. The committee asked the PP to provide certain information which he has submitted:

1. Submit a certificate from concerned DMO about the year-wise production details since 14.09.2006 and the highest production achieved in any one year prior to 2006.

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And

2. PP has to submit an undertaking from its Board that there will be no violation in future.
3. Submit documents from DMO that the 2 acres of area which is being surrendered does not have any mineable Stone and the same will not be leased to any other party for the purpose of stone mining. In case the lease is given to some other party it will attract provisions under EIA Notification and EIA / EMP report has to be prepared as per the same.
4. Obtain letter from Competent authority that their proposal for surrendering 2 acres has been accepted.
5. PP has to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to made as per relevant provision / criteria for an area more than 5 Ha.
6. PP has also to provide distance of nearest mine.

The PP has replied to the above points vide his letters dated 18<sup>th</sup> July and 12<sup>th</sup> August. During the discussions on 12<sup>th</sup> August the PP was informed that his request for seeking EC for an area of 12 acres i.e. 4.86 Ha cannot be accepted as the balance 2 acres area is contiguous and if added will exceed the limit of 5 Ha. PP then requested to issue TOR. This is in line with his request made to MOEF on 13.07.2012

**Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meetings held 17<sup>th</sup> & 18<sup>th</sup> June 2013 and during 12<sup>th</sup> to 14<sup>th</sup> August, 2013 the Committee suggests the following TORs for consideration of SEIAA for undertaking detailed EIA/EMP study. Also SEIAA is requested to write to State Government to take credible action under EP Act for the above violation.**

- 1 A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be included in the EIA Report.
- 2 All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology and should be in the name of the lessee.
- 3 All corner coordinates of the mine lease area superimposed on High Resolution Imagery / toposheet should be provided.
- 4 Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- 5 Does the Environment Policy prescribe for standard operating process/procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- 6 What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.



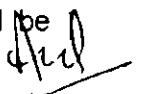
- 7 Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
- 8 The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc should be for the life of the mine / lease period.
- 9 Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary and national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated.
- 10 Land use plan of the mine lease area should be prepared to encompass Pre-operational, operational and post operational phases and submitted.
- 11 Details of the land for OB dump outside the mine lease such as extent of land area, distance from mine lease, its land use, R&R issues, if any should be given.
- 12 High Resolution Satellite Imagery of the proposed area clearly showing the land use and other ecological features of the study area (core and buffer zone) should be furnished.
- 13 A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any in the project area, or otherwise, based on land use classification (revenue record) as also in terms of the definition of forest as pronounced in the judgment of the Hon'ble Supreme Court of India in the matter of T.N. Godavarman Vs. Union of India. In the event of any claim by the project proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 14 Status of forestry clearance for the broken up area and virgin forestland involved in the project including deposition of net present value (NPV) and compensatory afforestation (CA). A copy of the forestry clearance should also be furnished.
- 15 Implementation of status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 16 Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required should be worked out with cost implications and submitted.
- 17 The vegetation in the RF / PF area with necessary details should be given.
- 18 A study shall be got done to ascertain the impact of the mining project on wildlife of the area including on the elephant population and details furnished.
- 19 Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished. In case, there is no such Eco-sensitive area within 10 km, the boundary of the nearest Eco-sensitive area with its distance shall be marked in a drawing and included in EIA / EMP Report.

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And



- 20 A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on primary field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for Implementing the same should be made as part of the project cost.
- 21 Impact, if any, of change of land use should be given.
- 22 R&R plan / compensation details for the project affected people should be furnished. While preparing the R&R plan, the Jharkhand State and National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs / STs and other weaker sections, need based sample survey, family-wise, should be undertaken to assess their requirement and action programmes prepared accordingly integrating the sectoral programme of line departments of the State Government.
- 23 Collection of one season (non-monsoon) primary baseline data on ambient air quality, water quality, noise level, soil and flora and fauna. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. The mineralogical composition of RSPM/SPM particularly for free silica should be given. There should be at least one monitoring station within 500 m of the mine lease in the predominant downwind direction. The mineralogical composition of PM10 particularly for free silica should be given.
- 24 Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 25 The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should be indicated.
- 26 Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
- 27 Details of water conservation measures proposed to be adopted in the project should be given.
- 28 Impact of the project on the water quality both surface and groundwater should be assessed and necessary safeguard measures, if any required should be provided.
- 29 Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed hydro geological study should be undertaken and report furnished. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 30 Details of any stream, seasonal or otherwise, passing through lease area and modification / diversion proposed, if any and the impact of the same on the hydrology should be brought out.



- 31 Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand.
- 32 Information on site elevation, working depth, groundwater table etc. should be provided both in AMSL and below ground level. A schematic diagram may also be provided for the same.
- 33 Quantity of solid waste generation to be estimated and details for its disposal and management should be provided. The quantity, volumes and methodology planned for removal and utilisation (preferably concurrently) of top soil should be indicated. Details of backfilling proposed, if any, should also be given. It may be clearly indicated that out of the total waste generated during the mine life, how much quantity would be backfilled and how much quantity would be disposed off in the form of external dump (number of dumps, their height, terraces etc. to be brought out).
- 34 The reclamation plan, mine closure plan, post mine land use and progressive greenbelt development plan shall be prepared in tabular form (prescribed format) and submitted.
- 35 Impact on local transport infrastructure due to the project should be indicated. Projected increase in truck traffic as a result of the project in the present road network (including those outside the project area) should be worked out, indicating whether it is capable of handling the increased load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
- 36 Details of the infrastructure facilities to be provided for the mine workers should be included in the EIA report.
- 37 Conceptual post mining land use and Reclamation and Rehabilitation of mined out area (with plans and with adequate number of sections) should be given in the EIA report.
- 38 Phase-wise plan of greenbelt development, plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.
- 39 Occupational health impact of project should be anticipated and preventive measures initiated. Details in this regard should be provided. Details of preplacement medical examination and periodical medical examination schedules should be incorporated in the EMP.
- 40 Public health implication of the project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocation.
- 41 Measures of socio economic significance and influence to the local community proposed to be provided by project proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
- 42 Detailed environmental management plan to mitigate the environmental impacts which, should inter-alia also include the impact due to change of land use, due to loss of agricultural land and grazing land, if any, occupational health impacts besides other impacts of the projects.
- 43 Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.

- 44 Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
- 45 The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.

Besides the above, the below mentioned general points should also be followed:-

- a) A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- b) All documents may be properly referenced with index and continuous page numbering.
- c) Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- d) Where the documents provided are in a language other than English, an English translation should be provided.
- e) The Questionnaire for environmental appraisal of mining projects as prescribed by the Ministry shall also be filled and submitted.
- f) Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
- g) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013 /41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH process again with the revised documentation.

The EIA report should also include

1. surface plan of the area indicating Contours of main topographic features, drainage and mining area,
2. geological maps and sections and
3. sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

The prescribed TORs would be valid for a period of two years for submission of the EIA / EMP reports, as per the O.M. No. J-11013/41/2006-IA.II(I) dated 22.3.2010.

After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.

### C. Projects for which SEAC has sought clarifications from PP.



**1. Stone Quarry of M/s Suresh Kumar Jhanjhari at Gurha, Dist – Giridh Jharkhand (Area 2.65 acres i.e. 1.072 Ha).**

This is a Stone Mining Project having lease area of 1.072 ha. Committee noted that this project falls under 'B2' Category. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was asked to submit certain information / clarifications. The PP has submitted the same. The Committee examined the same and found that all information / data has been provided. However in the letter issued by DFO it has been mentioned that there is a Eco – sensitive area within 10 kms of the Project Site. The PP in his presentation informed that there is no Notified Bio- diversity (Eco sensitive area) within 10 km radius of the Project site and has submitted a representation. The committee reviewed the same and requested Chairman, SEAC to seek clarification from PCCF (Wild-life). Accordingly a letter has been issued to PCCF (Wild-life) on 12.08.12. The Committee also asked the PP to get the letter issued by DMO modified that so that it clearly mentions that there is no other contiguous patch, having total area > 5 Ha.

**Once the PP provides the above information and clarification from PCCF (Wildlife) is obtained SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**2. Stone Mine and Crusher of M /s Shri Pawan Taneja located at Village Bhuli Dist – Dhanbad Jharkhand (Area 1.65 acres i.e. 0.668 Ha).**

The committee noted that as per Form I it is a proposal for a new Project. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was told that since the project falls in Critically Polluted area the project cannot not be taken up by the Committee. PP insisted that the Project does not fall in Critically Polluted area. PP was advised to come back with an authentic document and was also asked to submit certain information / clarifications. The PP submitted MOEF circular dated 15<sup>th</sup> March 2010 wherein the proposed project site does not fall under the Blocks identified therein. The PP has submitted certificates from CQ, DFO and DMO. The Committee examined the same and found that all information / data has been provided. The Committee was satisfied with the replies except for non clarity in certificate issued by DMO. PP was advised to get the same modified. Also he has to give a proof / certificate that the project site does not fall within 10 km from the Blocks identified in the above in view of the mandatory requirement as per MOEF Circular dated 28<sup>th</sup> April, 2011.

The committee was also informed that there is a crushing plant. PP was advised to submit the compliance of siting criteria as prescribed by JSPCB.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**3. Stone Mining Project of M / s Ranchi Stone Chips Industries in respect of Balsiring Stone Mines at Village Balsiring, P S Hatia, District Ranchi, Jharkhand (Area 4.45 Ha).**

This is a Stone Mining Project for renewal of mining lease area of 4.45 Ha. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 PP the proponent was asked to submit certain information / clarifications. The PP has submitted the same. The Committee was satisfied with the




replies except for non clarity in certificate issued by DMO. PP was advised to get the same revised and submit the same alongwith photographs giving details of Plantation carried out and brief on CSR activities carried out by the Mine owner in the past .

He was also asked to submit Compliance Report on conditions stipulated by DMO at the time of granting of lease by 24.08.2013 so that his case can be recommended to SEIAA for issue of EC. The Committee also decided that a team consisting of S / Shri R P S Sangu and S B S Chauhan, members SEAC will undertake a visit to site to ascertain the site conditions before the case is recommended to SEIAA for consideration for grant of EC. The information sought is awaited.

The details of mine capacity as provided in Mining Plan are

Proved Reserve	:	1481615 t
Mineable Probable Reserve	:	644705 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	61760 t
2 <sup>nd</sup> Year	:	61278 t
3 <sup>rd</sup> Year	:	63398 t
4 <sup>th</sup> Year	:	62685 t
5 <sup>th</sup> Year	:	68020 t

As per Form I the current production rate was 75 t / day and after renewal it would go up to 200 t / day.

**Once the site visit is completed & Report received and PP provides the balance information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

#### **4. Stone Quarry of M/s. Ma Jagdamba Stone Works at Jugra, Dist – Hazaribagh Jharkhand (Area 4.26 acres i.e. 1.72 Ha)**

The committee noted that as per Form I it is a proposal for a new Project. In the meeting held on 16<sup>th</sup> & 17<sup>th</sup> May 2013 PP the proponent was asked to submit certain information / clarifications. The PP has submitted the same. The Committee was satisfied with the replies except for non clarity in certificate issued by DMO. PP was advised to get the same revised and submit the same alongwith photographs of the area by 24.08.2013 so that his case can be recommended to SEIAA for consideration of issue of EC

The details of mine capacity as provided in Mining Plan are

1 Mineable Proved Reserve	:	570,000 t
2 Mineable Probable Reserve	:	630,000 t
3 Mineable Possible Reserve	:	690,000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	120000 t
3 <sup>rd</sup> Year	:	120000 t

4 <sup>th</sup> Year	:	120000 t
5 <sup>th</sup> Year	:	120000 t

**Note:** (During the 1<sup>st</sup> year the exposed stone face will be cleaned properly)

As per Form 1 submitted by PP the proposed production rate is 400 t / day

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**5. Stone Quarry of M /s Somvanshy Construction at Village Kurkheta, P.S. Basishtpur (Jori), Dist – Chatra, Jharkhand (Area 1.79 Ha).**

This is a Stone Mining Project for renewal of mining lease area of 1.79 Ha (As per Form I). In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 the proponent was asked to submit certain information / clarifications. The PP has submitted the same. The Committee was satisfied with the replies except for non clarity in certificate issued by DMO. PP was also to provide distance of nearest mine and also obtain a certificate from DMO that the proposed mine was not operative earlier which has not been submitted. PP was advised to get the balance information and also get the DMO Certificate revised and submit the same alongwith photographs and by 24.08.2013. He was also directed to submit copy of earlier mining lease.

The details of mine capacity as provided in Mining Plan are

i. Proved Reserve	:	1600000 t
ii. Probable Reserve	:	1700000 t
iii. Possible Reserve	:	1800000 t
iv. Total Reserve	:	5100000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	1,20,000 t
3 <sup>rd</sup> Year	:	1,20,000 t
4 <sup>th</sup> Year	:	1,20,000 t
5 <sup>th</sup> Year	:	1,20,000 t

**Note:** (During the 1<sup>st</sup> year the exposed stone face will be cleaned properly)

As per Form I the proposed production rate is 400 t / day.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**6. Stone Quarry of M /s Somvanshy Construction at Village Kurkheta, P.S. Basishtpur (Jori), Dist – Chatra, Jharkhand (Area 1.58 Ha).**

This is a Stone Mining Project for renewal of mining lease area of 1.58 Ha. In the meeting held on 16<sup>th</sup> to 18<sup>th</sup> July 2013 the proponent was asked to submit certain information /

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clarifications. The PP has submitted the same. The Committee was satisfied with the replies except for non clarity in certificate issued by DMO. PP was also to provide distance of nearest mine and also obtain a certificate from DMO that the proposed mine was not operative earlier which has not been submitted. PP was advised to get the balance information and also get the DMO Certificate revised and submit the same alongwith photographs and by 24.08.2013. He was also directed to submit copy of earlier mining lease.

The details of mine capacity as provided in Mining Plan are

I.	Proved Reserve	:	1350000 t
II.	Probable Reserve	:	1480000 t
III.	Possible Reserve	:	1600000 t
IV.	Total Reserve	:	4430000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	2,40,000 t
3 <sup>rd</sup> Year	:	2,40,000 t
4 <sup>th</sup> Year	:	2,40,000 t
5 <sup>th</sup> Year	:	2,40,000 t

**Note:** (During the 1<sup>st</sup> year the exposed stone face will be cleaned properly)

As per Form I the proposed production rate is 400 t / day.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action**

**7. Gourangkocha Stone Deposit of M/s Sun Eco Trading Pvt. Ltd., Village Gourangkocha, Taluka-Ichagarh , Dist.- Saraikela-Kharsawan, Jharkhand. (Area 3 Acre, 1.2146 hac).**

The committee noted that this is a proposal for renewal of lease. The earlier lease was transferred on 04.06.2011 to the present lessee and was valid upto 04.11.2012. PP was asked to provide copy of earlier lease also. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

I. Proved Reserve	:	189599.67 t
II. Probable Reserve	:	49442.94 t
III. Possible Reserve	:	381228.25 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	50,001.08 t
2 <sup>nd</sup> Year	:	50,000.82 t
3 <sup>rd</sup> Year	:	50,000.82 t
4 <sup>th</sup> Year	:	50,001.18 t
5 <sup>th</sup> Year	:	39,038.71 t

Note: The period of Mine life indicated is 4.78 years

During the discussions after the presentation PP informed that he has yet to obtain Certificate from DFO as per Annexure I as per SEIAA Guidelines In view that the mine was operating earlier the PP was asked to submit certain information mentioned as follows:

1. Compliance Report on conditions stipulated by DMO at the time of granting of lease.
2. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.
3. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past

PP also was asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest.

The committee was also informed that there is a crushing plant within the lease area. PP was advised to submit the compliance of siting criteria as prescribed by JSPCB.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

#### **8. Chikor Stone Mine of M/s Sri Ramesh Bhagat, Village - Chikor, Tehsil - Khunti , Dist. - Khunti, Jharkhand. (Area 4.51 hac, 11.15 Acre).**

The committee noted that this is a proposal for renewal of lease. PP was asked to provide copy of lease document. PP informed that he is manually producing Stone Blocks from this mine. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings



Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

I.	Proved Reserve	:	1,400,000 t
II.	Probable Reserve	:	1,630,000 t
III.	Possible Reserve	:	1,880,000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	30,000 t
3 <sup>rd</sup> Year	:	30,000 t
4 <sup>th</sup> Year	:	30,000 t
5 <sup>th</sup> Year	:	30,000 t

**Note:** (During the 1<sup>st</sup> year the exposed stone face will be cleaned properly)

As per Form I the current production rate was 120 t / day and after renewal it will come down to 100 t / day.

In view that the mine was operating earlier the PP was asked provide details of Plantation carried out and CSR activities carried out by the Mine owner in the past.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**9. Nawada Stone Quarry of M/s Vinayak Minerals.,Vill-Nawada, Tehsil-Domchanch , Dist.- Koderma, Jharkhand. (Area 0.28 hac).**

The committee noted that this is a proposal for renewal of lease. PP was asked to provide copy of lease document. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.



The details of mine capacity as provided in Mining Plan are

I.	Proved Reserve	:	103,500 t
II.	Probable Reserve	:	113,500 t
III.	Possible Reserve	:	125,000 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	18,000 t
3 <sup>rd</sup> Year	:	18,000 t
4 <sup>th</sup> Year	:	18,000 t
5 <sup>th</sup> Year	:	18,000 t

**Note:** (During the 1<sup>st</sup> year the exposed stone face will be cleaned properly)

As per Form I the current production rate was 60 t / day and after renewal it will remain as 60 t / day.

In view that the mine was operating earlier the PP was asked to submit certain information mentioned as follows:

- 1 Details of Plantation carried out and CSR activities carried out by the Mine owner in the past
- 2 Details of Ambient Air Quality at 3 stations around the mine as per JSPCB guidelines. This should be monitored for one month in non-monsoon period.

Since there are a number of stone mines and crushers in this area and is highly polluted the committee decided that a team of consisting of Dr M C Mahata and Dr Shatrunjay Kumar Singh Members, SEAC Jharkhand will visit Domchanch to have a firsthand idea of the situation prevailing in the area. The members should visit the site in September / October and submit their Report.

**Once the site visit is completed & Report received and PP provides the balance information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

#### **10. Stone Quarry of M /s Bandana Stone Works Mouza Lohanda, Anchal Borio, District Shahibgunj, Jharkhand (Area 3.496 Ha)**

The committee noted that as per Form I it is a proposal for a new Project. In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EEMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i.	Mineable Proved Reserve	:	1688715 t
ii.	Mineable Probable Reserve	:	221805 t
iii.	Mineable Possible Reserve	:	1147635 t
iv.	Total Mineable Reserve	:	3058155 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	11340 t
2 <sup>nd</sup> Year	:	12420 t
3 <sup>rd</sup> Year	:	13365 t
4 <sup>th</sup> Year	:	13770 t
5 <sup>th</sup> Year	:	14310 t

Considering 300 working days the maximum capacity of mine production i.e. the daily output would be 47.7 tonnes.

The Committee noted that the RQP who has prepared the Report is registered with IBM but has yet to be registered with Department of Mines Government of Jharkhand. He was advised that the RQP should get himself registered with Department of Mines Government of Jharkhand also at the earliest.

During the discussions after the presentation PP informed that he has to obtain Certificate from Circle Officer and DFO as per Annexure I of SEIAA guidelines. PP was asked to submit a list of mines falling within 5 km radius and details of human settlements..

Since there are a number of stone mines and crushers in this area and the same is highly polluted the committee decided that a team consisting of Shri R P S Sangu and Dr Shatrunjay Kumar Singh Members, SEAC Jharkhand will visit Shahibgunj area to assess the conditions there. The members should visit the site in September / October and submit their Report.

PP was also asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest. Further he was advised to obtain a certificate from DMO that the proposed mine was not operative earlier.

**Once the site visit is completed & Report received and PP provides the balance information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**11. Stone Quarry of M /s Arun Kumar Ladia Mouza Kakarkundar Karamjora, Tehsil Bengabad, District Giridih, Jharkhand (Area 0.9146 Ha).**

The committee noted that as per Form I it is a proposal for a new Project. However the records reveal that the original lease was executed on 21.04.2008. The same has been transferred to M / s Arun Kumar Ladia on 21.08.2012.



In view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

Mineable Probable Reserve	:	104513 t
Mineable Possible Reserve	:	556962 t
Total Mineable Reserve	:	661475 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	13052 t
2 <sup>nd</sup> Year	:	16365 t
3 <sup>rd</sup> Year	:	17420 t
4 <sup>th</sup> Year	:	17685 t
5 <sup>th</sup> Year	:	19440 t

Considering 300 working days the maximum capacity of mine production i.e. the daily output would be 64.8 tonnes.

The Committee noted that the RQP who has prepared the Report is registered with IBM but has yet to be registered with Department of Mines Government of Jharkhand. He was advised that the RQP should get himself registered with Department of Mines Government of Jharkhand also at the earliest.

During the discussions after the presentation PP informed that he has to obtain Certificate from DFO as per Annexure I of SEIAA guidelines. PP was asked to furnish copy of original i.e. 1<sup>st</sup> Lease.

The committee was also informed that there is a crushing plant. PP was advised to submit the compliance of siting criteria as prescribed by JSPCB.

PP has also to provide distance of nearest mine.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**12. Chapandey Stone Mine of Sanjay Mining & Mineral Trading ,Corporation, Village Chapandey, Thana-Ranga , Dist.- Sahibganj, Jharkhand (Area 3.95 Ha).**

The committee noted that as per Form I it is a proposal for a renewal of lease. The lease was executed on 31.05.1993 and as informed it was further renewed upto 30.05.2013. In

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view of the size of the mine, production rate and the mineral mined the committee felt that the operation of the mine will have negligible impact on the surroundings.

Considering the fact that it is B2 Category of Project - as per EIA Notification dated 14.09.2006 the environmental impact assessment as well as Public Consultation is not required. The committee felt that TOR is not required, nor any formal EIA/EEMP is to be prepared in the instant case. These prescribed exemptions (Based on SEIAA guidelines and decision taken vide MOEF Notification dated 14.09.2006) are recommended by the Committee in the instant case.

The details of mine capacity as provided in Mining Plan are

i.	Mineable Proved Reserve	:	617642 t
ii.	Mineable Probable Reserve	:	299414 t
iii.	Total Mineable Reserve	:	917056 t

Year-wise Production as proposed under Mining Plan for five years is as follows

1 <sup>st</sup> Year	:	88501 t
2 <sup>nd</sup> Year	:	88614 t
3 <sup>rd</sup> Year	:	88382 t
4 <sup>th</sup> Year	:	92097 t
5 <sup>th</sup> Year	:	93207 t

Considering 295 working days the maximum capacity of mine production i.e. the daily output would be 316 tonnes.

During the discussions after the presentation PP informed that he has to obtain Certificate from Circle Officer and DFO as per Annexure I of SEIAA guidelines. PP was asked to submit a list of mines falling within 5 km radius and details of human settlements..

Since there are a number of stone mines and crushers in this area and the same is highly polluted the committee decided that a team consisting of Shri R P S Sangu and Dr Shatrunjay Kumar Singh Members, SEAC Jharkhand will visit Shahibgunj area to assess the conditions there. The members should visit the site in September / October and submit their Report.

PP was also asked to obtain a Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha and the area has not been leased out / mining operation is not being carried out over such area. In case there are contiguous virgin mining leases / Patches then the total sum area of these mining patches are to be considered as one mine and application is to be made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest.

**Once the site visit is completed & Report received and PP provides the balance information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**13. Brahmandungri Soapstone Mines of M/s Ganga Engineering, Village- Brahmandungri , Thana-Rajnagar, Dist.- Saraikela-Kharsawan, Jharkhand (Area 31.36Ha).**

This is a Soapstone Mining Project having a lease area of 31.36 Ha. The lease was executed on 07.03.2005 for a period of 20 years. The mine was closed in 2012 due to non issue of Mining Challan. PP has not obtained EC earlier and has applied for TOR (Pre Environmental Clearance) once the Mining Challan was denied. As per Form I the PP proposes to mine 10,144 tonnes of Soapstone per year. As per Pre Feasibility Report the total Geological reserves are 3,99,488 tonnes and mineable reserves are 3,42,662 tonnes. The life of mine has been indicated as 27 years based on current reserves and 295 working days. This project falls under 'B1' Category and is for consideration for issuance of TORs. The mine is located between 86°08'44" to 86°09'8.5" E and 22°43'8.67" to 22°43'31.49"N. The PP alongwith his Consultant M / s Grass Roots Research and Creation India (P), Ltd, New Delhi made a presentation for grant of TOR.

The committee was not satisfied with the details furnished during the presentation and decided that a team A team consisting of Shri A K Saxena and Shri S K Sinha, Chairman and Secretary, SEAC Jharkhand will visit Soapstone mine in Jamshedpur to have a firsthand idea of the mine. The members should visit the site in September / October and submit their Report prior to issue of TOR.

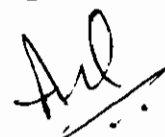
The proponent was also directed to provide annual production figure from the date of sanction of Mining lease till 2012.

**Once the site visit is completed & Report received and PP revises his documents SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**14. Tekrahatu Limestone Mine of M/s Shri Banwarilall Newatia, Village Tekrahatu Singhpokharia, Thana- Kolhan , Dist.- West Singhbhum, Jharkhand (Area 9.187 Ha)**

This is a Limestone Mining Project having a lease area of 9.187 Ha. As per the details provided in the Pre Feasibility Report the lease was sanctioned on 17<sup>th</sup> November 1976 for a period of 10 years which was renewed in 1986 for a further period of 10 years. PP has applied for renewal of lease on 6<sup>th</sup> November 1995 for a period of 20 years which is pending with the State Government. As per Form I the PP proposes to mine 67,000 tonnes of Limestone per year. Earlier they were actually mining 18,276 tonnes of Limestone per year against 10435 tonnes of Limestone per year as per scheme. As per Pre Feasibility Report the total Geological reserves are 17,91,707 tonnes and mineable reserves are 5,84,000 tonnes. The life of mine has been indicated as 8.71 years. This project falls under 'B1' Category and is for consideration for issuance of TORs. The mine is located between 85°47'25.48" to 85°48'04" E and 22°29'57" to 22°02'14"N. The PP alongwith his Consultant M/s VISIONTEK Consultancy Services (P) Ltd, Bhubaneshwar made a presentation for grant of TOR.

Based on the information contained in the documents submitted and the presentation made it was observed that this is a case of Violation. The Committee sought following additional information;



1. Compliance Report on conditions stipulated by DMO at the time of granting of lease.
2. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.
3. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past alongwith Photographs
4. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification, 1994 came into force w.r.t. the highest production achieved prior to 1994.
5. Name of Agent since 1994.
6. Undertaking from the Board / Management that there will not be any violation in future.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**15. Harup Bauxite & Laterite Mine Project of, M/s Shri Girish Kumar Popat, Village Harup, Tehsil Bishunpur, Dist.- Gumla, Jharkhand (Area 45.65 Ha).**

This is a Bauxite & Laterite Mining Project having a lease area of 45.65 Ha. As per the documents provided the Mining lease was executed on 26.03.1990 and was valid for 20 years. PP had applied to Department of Mines & Geology, Government of Jharkhand on 27.02.2009 for renewal of lease. The PP applied to MOEF for grant of TOR. The Proposal was presented before MOEF's EAC Committee on 21-23<sup>rd</sup> February 2012. The EAC, desired that the proposal be revised and submitted as there was no clarity regarding succession of lease after the original lessee Chandrakant Tulsidas Popat passed away. The case was closed. PP applied again on 13.02.2012 to MOEF and the application was sent to SEIAA, Jharkhand for its consideration for issuance of TORs. This project falls under 'B1' Category. As per Form I they have mentioned a production figure of 2,19,836 tonnes of Bauxite and Laterite per year. As per Executive Summary the total Geological reserves are 26,99,567 tonnes and mineable reserves are 10,74,386 tonnes. The life of mine has been indicated as 5 years based on current reserves and 295 working days. The mine is located between 82°24'55.3" to 84°25'06.1" E and 23°23'27.3" to 23°23'49"N. The PP alongwith his Consultant M / s Grass Roots Research and Creation India (P), Ltd, New Delhi made a presentation for grant of TOR.

The proponent was also directed to provide annual production figure from the date of sanction of Mining lease till 2012.




Based on the information contained in the documents submitted and the presentation made it was observed that this is a case of Violation. The Committee sought following additional information;

1. Compliance Report on conditions stipulated by DMO at the time of granting of lease.
2. Compliance Report on conditions stipulated by JSPCB at the time of granting of Consent to establish and Consent to Operate.
3. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past alongwith Photographs
4. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification, 1994 came into force w.r.t. the highest production achieved prior to 1994.
5. Name of Agent since 1994.
6. Undertaking from the Board / Management that there will not be any violation in future.
7. Provide details regarding clarity with respect to succession.

The committee was not satisfied with the details furnished during the presentation and decided that a team a team consisting of Shri S B S Chauhan and Shri S K Singh Members, SEAC Jharkhand will visit Bauxite mines and submit their Report. This visit will be planned in continuation of next meeting of SEAC.

**Once the site visit is completed & Report received and PP revises his documents SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

**16.M/s Mittal Cement's 39600TPA Cement Grinding at Village Rangdih, Tehsil- Govindpur, District Dhanbad, Jharkhand.**

The PP and their consultant, M/s. ENV Developmental Assistance Systems (I) Pvt Ltd, Lucknow and Shiva Test House, Patna (earlier presented the case at MOEF) gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken as per Terms of Reference (TORs) awarded by MOEF during the 27<sup>th</sup> Meeting of the Expert Appraisal Committee (Industry-1) held during 26.08.2011 – 27.08.2011 for preparation of EIA/EMP report. The Committee exempted the proposal from Public Hearing by categorizing it as B2 Category.

M/s.Mittal Cement Ltd have proposed setting up of a Cement Grinding unit of 39600 TPA Capacity by grinding of Clinker, Gypsum and Blast Furnace Slag at Village Rangdih, Tehsil Govindpur ,District. Dhanbad, Jharkhand. The total Plant area is 1 acre. The land required for the Project is in Possession of the PP. There are no National Park, Wildlife Sanctuary, Biosphere Reserve exist within 10 km radius of the study area. Total cost of the project is Rs. 132.86 Lakhs. Capital cost for Environmental Protection Measures is Rs. 6.0 Lakhs and Recurring Cost is Rs. 3 Lakhs /annum.



Clinker (13860 TPA) will be sourced from Satna & Maihar, Blast Furnace Slag (23760 TPA) will be sourced from Durgapur and Bokaro Steel Plants of SAIL and Gypsum (1980 TPA) will be sourced from Churu. Power required for the project will be sourced from JSEB. To control particulate emissions, all major sources of air pollution are provided with Bag filters. The Raw Materials will be mixed in silo and gypsum in covered shed.

Base line data of ambient air quality monitored at eight locations in the study area indicates that the concentrations of PM10, PM2.5, SO2 and NO2 are varying from 24.8 to 78.3 µg/m<sup>3</sup>, 12.0 to 42.7 µg/m<sup>3</sup>, 11.8 to 38.9 µg/m<sup>3</sup> and 14.6 to 46.7 µg/m<sup>3</sup> respectively. There is no Stack as this is a Grinding Unit only. Local Air Pollution Control measures are proposed to be implemented. It is expected that there will be negligible impact due to the Project.

The water requirement for the project is estimated as 2m<sup>3</sup> / day which will be met through a Borewell.

No solid waste is generated in cement manufacturing process. Dust collected from the pollution control equipments is recycled back to the process.

The proposal was exempted from public hearing due to use of energy efficient technology, no clinker manufacturing at the proposed site, no sensitive area within 10 km. radius, 'zero' effluent discharge, utilization of all the solid waste in the process itself including utilization of fly ash etc.

PP was asked to submit copies of Accreditation Certificate of QCI NABET in respect of M/s. ENV Developmental Assistance Systems (I) Pvt Ltd, Lucknow as Consultants and Dr S Prasad of Shiva Test House, Patna as Project Co-ordinator to SEAC by 24.08.2013.

**Once the PP provides the above information SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

#### **17. M/s Upcountry Cement Private Limited's 2 X 75 tpd Cement Grinding at Village Jangalpur, Tehsil- Govindpur, District Dhanbad, Jharkhand.**

The PP and their consultant, M/s. ANACON Laboratories (I) Pvt Ltd, Nagpur gave a presentation on the salient features of the project and proposed environmental protection measures to be undertaken. PP made a request to treat this Project under B2 Category. The committee was not satisfied with the details furnished during the presentation and asked PP to come back with corrections / modifications during forthcoming meeting of SEAC.

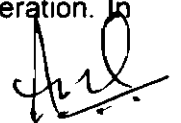
The Committee considered the request of PP and keeping in view that MOEF had granted B2 Category to a similar project i.e. M/s Mittal Cement agreed to the same.

**Once the PP revises his documents SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.**

#### **18. Stone Quarry of M/s. Express Infratech Pvt Ltd. at Village Chandradeepa, Mouja Mihijam Dist – Jamtara Jharkhand (Area 5.08 Ha).**

This is an open cast mine project having lease area of 5.08 ha. As per the documents provided the Mining lease was executed on 19.10.2010 and was valid for 10 years. The Project falls under B1 Category. The project proponent had applied for Environment Clearance to MOEF, Delhi. His application has been sent to SEIAA for consideration. In

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the 2nd meeting held on 16th & 17th of May 2013, PP was asked to submit the certain information's to come along with his Consultant / RQP. During the presentation made by PP on 17<sup>th</sup> - 18<sup>th</sup> June 2013 he was informed that as per Annexure I submitted by him the Project falls at a distance of 8.5km interstate boundary and as per Form I it has been mentioned that it is 6.6 Km from inter – state boundary (West Bengal) i.e. within 10 km of inter – state boundary. He was also informed that as per EIA Notification 2006 any project or activity specified in Category 'B' will be treated as Category 'A' if it falls within 10 Kms of Inter - State Boundary and as such the Project has to be considered by EAC of MOEF at Delhi.

The PP has on 14.08.2013 submitted a Certificate from Circle Officer (No 4/13 dated 03.07.2013) which states that the distance of Inter - State Boundary is 12.8 Km. In view of same the PP was advised to come with all lease related documents and make a proper presentation alongwith an accredited Consultant for grant of TOR.

**SEIAA may note the above change. SEAC will, after examining the same in its next meeting, forward its recommendations to SEIAA for consideration for issue TOR.**

**19.M/s. Chandra Bhushan, Vill Chaparwar, Tehsil - Chatarpur, Dist - Palamu, Jharkhand (Area 6.69 Ha revised to 4.856 Ha).**

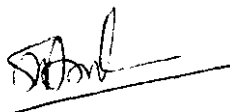
This is an open cast mine project for mining of Sandstone (Minor Mineral) having lease area of 6.69 ha. The Project falls under B1 Category. The project proponent had applied for Environment Clearance to MOEF, Delhi . His application has been sent to SEIAA for consideration. The PP in the 2nd meeting of SEAC held on 16th & 17th of May was asked to come along with his RQP who has prepared the Mine Plan.

The PP came up with a fresh proposal for grant of EC for 4.856 Ha of mine for producing 180000 TPA of Sandstone. The Committee felt that the PP wants to avoid preparation of EIA / EMP report and other associated procedures.

The committee deliberated on the proposal and asked the PP to obtain a certificate from concerned DMO if the area of Mining Lease could be reduced as the application was made for 6.69 Ha. During the meeting held on 14<sup>th</sup> August the PP requested to consider his original application for grant of TOR. The PP was advised to come with all lease related documents and make a proper presentation alongwith an accredited Consultant for grant of TOR

**Once the PP provides the above clarification SEAC will, after examining the same in its next meeting, forward its recommendations to SEIAA for consideration for issue TOR.**

**The meeting concluded with thanks to all the Members.**

  
Secretary  
SEAC

  
Chairman  
SEAC