

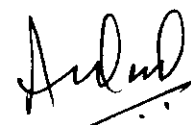
MINUTES OF THE 9th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 20th, 21ST and 22nd SEPTEMBER 2013

The 9th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 20th, 21ST & 22ND September 2013 under the Chairmanship of Sh. A.K. Saxena in the Conference Room at 170 C, Ashok Nagar, Ranchi. The following members were present:

- | | | |
|----|-------------------------|-------------|
| 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. | Sh. S.K. Sinha | - Secretary |

At the outset the members of the committee went through the Minutes of 8th Meeting held on 12th, 13th & 14th August 2013 and confirmed the same. After confirmation of the minutes the following points were deliberated and agreed to.

1. As mentioned in MOM of 8th Meeting of SEAC Aide Memoir on meeting / interaction of Shri A.K. Saxena, Chairman, SEAC with Chairman and Member Secretary of SEIAA, Gujarat & Chairman and Secretary SEAC Gujarat; his meeting / interaction with Chairman, SEIAA, Odisha and members of SEAC, Odisha; interaction held by Prof Dr Shatrunjay Singh at Patna and interaction Shri Sanjay Kumar Sinha, Secretary, SEAC had with Secretary, SEAC, West Bengal was circulated to members of SEAC and also to Chairman, SEIAA, Member, SEIAA and Member Secretary, SEIAA.
2. Shri S B S Chauhan informed about his note written to Chairman, SEIAA, Jharkhand. The Committee noted his views. Also note prepared and circulated by Shri S K Singh was deliberated. It was decided to take up the issues during the forthcoming Joint Meeting of SEIAA and SEAC on 24th September.
3. M/s Nitesh Sarda Stone Mine & Crusher for their two mines (0.607Ha and 2.02 Ha) at Giyarappa, Khunti District was granted EC for 5 years based on the recommendation made by SEAC. He had submitted a request to SEIAA that since the Mining Lease proposed is for 10 years the EC may be revised to 10 years. SEIAA had sent the file to SEAC for review. SEAC reviewed the request in its meeting on 20th September and forwarded the file with its views that since the EC for mining projects is co-terminus with mining lease period and as the mining lease is expected to be for 10 years the request made by PP may be accepted by SEIAA.
4. Since there are a large number of stone mines and crushers in Domchanch area and Shahibgunj area and the same are highly polluted - the committee had decided that a team will visit these areas in September / October to assess the conditions there. SEIAA in its 8th meeting held on 29th August had suggested that site visit be undertaken with case wise justification. Since the idea of visits was to have an overall idea of the Environment there the Committee debated on the issue and decided to recommend to SEIAA to get Regional studies carried out in these areas either directly or request Department of Forests and Environment, Government of Jharkhand or JSPCB to get the same conducted.

Various projects which were received by SEIAA after the previous SEAC meeting held on 12th, 13th & 14th August 2013 and forwarded to SEAC 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 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. The Committee noted that this project falls under 'B2' Category. This is a case of renewal of lease. The original lease was in the name of Sain Minerals. The lease was signed on 15.01.2003 for a period of ten years. The State Government granted permission vide order dated 20th June 2009 and the lease was transferred on 4th July 2009 for the balance lease period to PP. As mentioned in the Environmental Clearance Application submitted by PP to MOEF, New Delhi it has been mentioned that PP has applied for renewal of lease from 15.01,2013 to 14.01.2023.

The committee noted that the size of the mine, production rate and the mineral mined are such 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 Report are

i. Proved Reserve	:	69,122 cu.m. (1,72,805 t)
ii. Probable Reserve	:	51,841 cu.m. (1,29,603 t)
iii. Possible Reserve	:	51,841 cu.m. (1,29,603 t)
iv. Total Reserve	:	1,72,800 cu.m. (4,32,000 t)

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

1 st Year	:	6460 cu.m. (16,150 t)
2 nd Year	:	4180 cu.m. (10,450 t)
3 rd Year	:	3800 cu.m. (9,500 t)
4 th Year	:	4256 cu.m. (10,640 t)
5 th Year	:	25498 cu.m. (63,745 t)

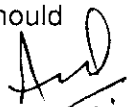
The production rate at maximum capacity in 5th year will be 85 cu. m (212.5t) per day considering 300 working days.

The PP in previous meetings held in July and August was asked to submit information / clarifications which he has duly submitted.

Based on the information provided the Committee recommends that the proposal of M/s Suresh Kumar Jhanjhari at Gurha, Dist – Giridh Jharkhand (Area 2.65 acres i.e. 1.072 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. As per Secretary (Mines & Geology), Govt. of Jharkhand office order No [No.- 1456.dtd- 12-06-2013], a number of RQP's have been identified. Mine Plans prepared by these RQP's only are to be submitted to Director (Mines), Govt. of Jharkhand for approval. The RQP's who prepare mine plans for projects and are not registered with Department of Mines, Govt. of Jharkhand have to get themselves registered so that approval of mine plans can be processed expeditiously. The RQP Shri Debashish Gouda who has prepared the Mine Plan and Report should get himself registered with Department of Mines, Govt. of Jharkhand within a month so that Mine Plans are approved expeditiously. The various conditions for grant of EC are given below.

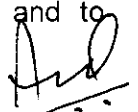
A. Specific Conditions

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.

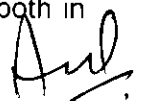
11. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
12. Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, 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. ~~Waste~~ Central Ground Water Board
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

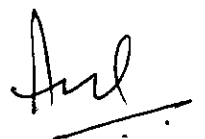



hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.

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,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 grant of lease renewal (10 years) for the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
3. The RQP Shri Debashish Gouda who has prepared the Mine Plan and Report for the Project should get himself registered with Department of Mines, Government of Jharkhand within a month so that Mine Plans are approved within three months in line with SEIAA Guidelines.
4. 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.
5. 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.



6. 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 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 having an area of 1.79 Ha. In the previous meetings held in July and August 2013 the PP was asked to submit certain information / clarifications. The PP has submitted the same. The Committee was satisfied with the replies. As per Form I the PP it has been mentioned that the project is for renewal of mining lease. On query the PP has confirmed that this is a proposal for fresh mining lease and has submitted an undertaking to this effect. PP has also submitted that CIMFR are their consultants and they will provide further necessary services. During the meeting CIMFR representative Dr Mrinal Chakraborty has also confirmed the same.

The details of mineable reserves as provided in Mining Plan and Progressive Mine Closure Plan Report are

i.	Proved Reserve	:	1400000 t
ii.	Probable Reserve	:	1500000 t
iii.	Possible Reserve	:	1600000 t
iv.	Total Reserve	:	4500000 t

Year-wise Production as proposed under Mining Plan and Progressive Mine Closure Plan Report for five years is as follows

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

Note: (During the 1st year the exposed stone face will be cleaned properly)

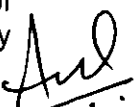
As per Form I the proposed production rate is 400 t / day.

Based on the information provided the Committee recommends that the proposal of M /s Somvanshy Construction at Village Kurkheta, P.S. Basishtpur (Jori), Dist – Chatra, Jharkhand (Area 1.79 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 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/*Central Ground Water Board.*
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,SO₂ ,NO_x (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 grant of lease (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.

3. 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 having an area of 1.58 Ha. In the previous meetings held in July and August 2013 the PP was asked to submit certain information / clarifications. The PP has submitted the same. The Committee was satisfied with the replies. As per Form I the PP it has been mentioned that the project is for renewal of mining lease. On query the PP has confirmed that this is a proposal for fresh mining lease and has submitted an undertaking to this effect. PP has also submitted that CIMFR are their consultants and they will provide further necessary services. During the meeting CIMFR representative Dr Mrinal Chakraborty has also confirmed the same.

The details of mine capacity as provided in Mining Plan and Progressive Mine Closure Plan Report 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 and Progressive Mine Closure Plan Report for five years is as follows

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

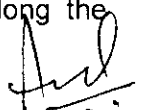
Note: (During the 1st year the exposed stone face will be cleaned properly)

The proposed production rate as per Mining Plan and Progressive Mine Closure Plan Report the production is 800 t/ day.

Based on the information provided the Committee recommends that the proposal of M /s Somvanshy Construction at Village Kurkheta, P.S. Basishtpur (Jori), Dist – Chatra, Jharkhand (Area 1.58 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.
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.

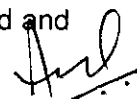
13. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should 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/*Central Ground Water Board*.
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,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 grant of lease (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 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.

4. Lohrahi Stone Mine of M /s Sona Stone Chips at Village Lohrahi, P.S. & Block Chhatarpur, Dist – Palamu, Jharkhand (Area 1.21 Ha).

This is a Stone Mining Project for having an area of 1.21 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/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	:	370000 t
II.	Probable Reserve	:	95000 t
III.	Possible Reserve	:	47500 t
IV.	Total Reserve	:	512500 t

Year-wise Production as proposed under Mining Plan and Progressive Mine Closure Plan Report for five years is as follows

1 st Year	:	72,000 t
2 nd Year	:	73,500 t
3 rd Year	:	71,400 t
4 th Year	:	71,400 t
5 th Year	:	72,000 t

The proposed maximum production rate as per Mining Plan and Progressive Mine Closure Plan Report is 245 t/ day.

PP has submitted all documents viz. Annexure 1 and Annexure 2 of SEIAA Guidelines, Certificates from DFO, Circle Officer and DMO

Based on the presentation made and information provided the Committee recommends that the proposal of of M /s Soma Stone Chips at Village Lohrahi, P.S. & Block Chhatarpur, Dist – Palamu, Jharkhand (Area 1.21 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.
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/*Central Ground Water Board.*
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.

SR *And*

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,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 grant of lease (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.

5. Karmakala Stone Mine of M /s Sona Stone Chips at Village Karmakala, P.S. & Block Chhatarpur, Dist – Palamu, Jharkhand (Area 0.96 Ha).

This is a Stone Mining Project for having an area of 0.96 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/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	:	232750 t
II.	Probable Reserve	:	95000 t
III.	Possible Reserve	:	47500 t
IV.	Total Reserve	:	375250 t

Year-wise Production as proposed under Mining Plan and Progressive Mine Closure Plan Report for five years is as follows

1 st Year	:	42,000 t
2 nd Year	:	42,000 t
3 rd Year	:	42,000 t
4 th Year	:	42,000 t
5 th Year	:	42,000 t

The proposed maximum production rate as per Mining Plan and Progressive Mine Closure Plan Report is 140 t/ day.

PP has submitted all documents viz. Annexure 1 and Annexure 2 of SEIAA Guidelines, Certificates from DFO, Circle Officer and DMO.

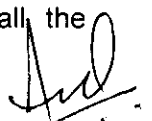


Based on the presentation made and information provided the Committee recommends that the proposal of of Karmakala Stone Mine of M /s Soma Stone Chips at Village Karmakala, P.S. & Block Chhatarpur, Dist – Palamu, Jharkhand (Area 0.96 Ha) be recommended for consideration of SEIAA for grant of EC. The 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.
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./Central Ground Water Board.
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,SO₂ ,NO_x (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.

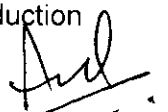
16. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website 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 grant of lease (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.
6. **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).**

During the presentation it was learnt that this is a case of renewal of mine. The committee also noted that as per Form I it is mentioned that this proposal is for a new Project. PP clarified that the mining lease was granted on 21.02.2002 for a period of 10 years. PP informed that as per MOEF Office Memorandum No J – 11013/5/2010-IA.II(I) dated 17th September moratorium has been lifted in respect of Dhanbad and Dhanbad has been deleted from the list of Critically Polluted area. PP has submitted all information viz. Annexure 1 and Annexure 2 of SEIAA Guidelines, Certificates from DFO, Circle Officer and DMO. However the Committee had in 8th meeting sought following additional information;

1. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past alongwith Photographs
2. 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.

3. Undertaking from the Board / Management that there will not be any violation in future.
4. Copy of Mining lease deed

PP was also advised to ask his RQP to get himself registered with Director (Mines), Govt. of Jharkhand. PP was advised to submit the above details by 5th October 2013 so that his case could be recommended To SEIAA. The above information has been submitted by the PP vide his letter dated 27.09.2013

The details of mine capacity as provided in Mining Plan are

1	Mineable Proved Reserve	:	274,131 t
2	Mineable Probable Reserve	:	28,350 t

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

1 st Year	:	14242 t
2 nd Year	:	15525 t
3 rd Year	:	15214 t
4 th Year	:	17955 t
5 th Year	:	18090 t

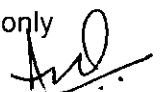
Based on 300 days working the production rate is estimated to be 60 t / day in 5th year

Based on the information provided the Committee recommends that the proposal of M /s Shri Pawan Taneja located at Village Bhuli Dist – Dhanbad Jharkhand (Area 1.65 acres i.e. 0.668 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. As per Secretary (Mines &Geology), Govt. of Jharkand office order No [No.- 1456.dtd- 12-06-2013], a number of RQP's have been identified. Mine Plans prepared by these RQP's only are to be submitted to Director (Mines),Govt. of Jharkhand for approval. The RQP's who prepare mine plans for projects and are not registered with Department of Mines, Govt. of Jharkhand have to get themselves registered so that approval of mine plans can be processed expeditiously. The RQP Shri S. M. Patro who has prepared the Mine Plan and Report should get himself registered with Department of Mines, Govt. of Jharkhand within a month so that Mine Plans are approved expeditiously. 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./Central Ground Water Board.
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


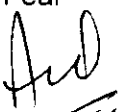


and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.

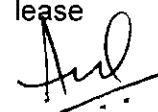
18. No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
19. Drills shall either 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.
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 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 grant of lease



renewal (10 years) for the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.

3. The RQP Shri S. M. Patro who has prepared the Mine Plan and Report for the Project should get himself registered with Department of Mines, Government of Jharkhand within a month so that Mine Plans are approved are approved within three months in line with SEIAA Guidelines.
 4. 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.
 5. 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.
 6. 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. 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 previous meetings held in July and August 2013 the PP was asked to submit certain information / clarifications. The PP has submitted the same. Based on the decision taken in the previous meeting a team consisting of S / Shri R P S Sangu, S B S Chauhan and Prof Dr. M C Mahata, members SEAC undertook a visit to site on 22nd September to ascertain the site conditions. In their Report they have recommended that the case be forwarded to SEIAA for consideration for grant of EC.

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 st Year	:	61760 t
2 nd Year	:	61278 t
3 rd Year	:	63398 t
4 th Year	:	62685 t
5 th Year	:	68020 t

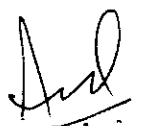
As per Form I the current production rate was 75 t / day and after renewal it would go up to 200 t / day.

Based on the information provided and Report of Site Visit the Committee recommends that the proposal 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) be recommended for consideration of SEIAA for grant of EC. The various conditions suggested for grant of EC are given below.




A. Specific Conditions

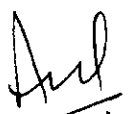
1. The environmental clearance is subject to grant of mining lease by the Department of Mines, Government of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. No mining shall be undertaken in the forest area without obtaining requisite 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.
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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.
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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.
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- 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.
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- 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.
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And

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 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.

8. 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 meetings held in May and August 2013 PP the proponent was asked to submit certain information / clarifications. The PP has submitted the same.

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
4. Total reserves	:	1890,000 t

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

1 st Year	:	Not indicated
2 nd Year	:	120000 t
3 rd Year	:	120000 t
4 th Year	:	120000 t
5 th Year	:	120000 t

Note: (During the 1st year the exposed stone face will be cleaned properly)

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

Based on the information provided the Committee recommends that the proposal of M/s. Ma Jagdamba Stone Works at Jugra, Dist – Hazaribagh Jharkhand (Area 4.26


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acres i.e. 1.72 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. / *Central Ground Water Board.*
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,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 grant of lease (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.

9. Chikor Stone Mine of M/s Sri Ramesh Bhagat, Village - Chikor, Tehsil -Khunti , Dist. - Khunti, Jharkhand. (Area 4.51 Ha).

The committee noted that this is a proposal for renewal of lease. The lease was valid upto 29th November 2012. The lease area was 13.75 acres (5.56 Ha). While applying for renewal of mine lease the PP has reduced the area to 11.15 acres (4.51Ha.) as the Gram Panchyat had objected to mining in 2.6 acres. 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/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.	Proved Reserve	:	1,400,000 t
II.	Probable Reserve	:	1,630,000 t
III.	Possible Reserve	:	1,880,000 t
IV.	Total Reserve	:	4,910,000 t

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

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

Note: (During the 1st 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.

PP has submitted the documents asked during the earlier meeting.

Based on the information provided the Committee recommends that the proposal of M/s Sri Ramesh Bhagat, Village - Chikor, Tehsil -Khunti , Dist. - Khunti, Jharkhand. (Area 4.51 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./Central Ground Water Board.
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,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 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

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

The committee noted that this is a proposal for renewal of lease. The lease is valid upto 29th November 2013. 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
IV.	Total Reserve	:	342,000 t

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

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

Note: (During the 1st 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.

PP has submitted desired information. PP has also submitted data of Ambient Air Quality monitored on 10.09.2013 at 3 stations around the mine as per JSPCB guidelines. The committee asked PP to obtain data (non – monsoon) monitored in Domchanch area from JSPCB and provide to SEAC for its information by 30th November 2013. This will enable SEAC to know about the Air Quality prevailing in the area.



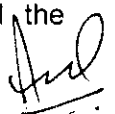
Based on the information provided the Committee recommends that the proposal of Nawada Stone Quarry of M/s Vinayak Minerals., Vill - Nawada, Tehsil - Domchanch, Dist.- Koderma, Jharkhand. (Area 0.28 ha) be recommended for consideration of SEIAA for grant of EC. The various conditions suggested for grant 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/*Central Ground Water Board*.
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,SO₂ ,NO_x (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 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 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.
- 11. Utaki Stone Mine of Shri Sanjay Singh at Village Utaki, P.S. Patan, Dist – Palamu, Jharkhand (Area 1.2 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/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.	Mineable Proved Reserve	:	553000 t
II.	Mineable Probable Reserve	:	17000 t
III.	Mineable Possible Reserve	:	477000 t
IV.	Total Mineable Reserve	:	1,047000 t

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

1 st Year	:	30,000 t
2 nd Year	:	58,624 t
3 rd Year	:	58,624 t
4 th Year	:	58,624 t
5 th Year	:	58,624 t

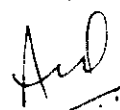
As per Form I the proposed production rate is 170 t / day.

PP has submitted Annexure 1 and Annexure 2 of SEIAA guidelines along with certificate from DFO and Circle Officer. PP has also furnished certificate from DMO.


Based on the information provided the Committee recommends that the proposal in respect of Utaki Stone Mine of Shri Sanjay Singh at Village Utaki, P.S. Patan, Dist – Palamu, Jharkhand (Area 1.2 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. As per Secretary (Mines & Geology), Govt. of Jharkhand office order No [No.- 1456.dtd- 12-06-2013], a number of RQP's have been identified. Mine Plans prepared by these RQP's only are to be submitted to Director (Mines), Govt. of Jharkhand for approval. The RQP's who prepare mine plans for projects and are not registered with Department of Mines, Govt. of Jharkhand have to get themselves registered so that approval of mine plans can be processed expeditiously. The RQP Dr. G S Jaiswal who has prepared the Mine Plan and Report should get himself registered with Department of Mines, Govt. of Jharkhand within a month so that Mine Plans are approved expeditiously. 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/*Central Ground Water Board.*
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,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 grant of lease renewal (10 years) for the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
3. The RQP Dr. G S Jaiswal who has prepared the Mine Plan and Report for the Project should get himself registered with Department of Mines, Government of Jharkhand within a month so that Mine Plans are approved are approved within three months in line with SEIAA Guidelines.
4. 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.
5. 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.
6. 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.

12. 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 27th 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 due to energy efficient technology and various other reasons as mentioned in the minutes of EAC meeting.

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/m³, 12.0 to 42.7 µg/m³, 11.8 to 38.9 µg/m³ and 14.6 to 46.7 µg/m³ 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 their will be negligible impact due to the Project

The water requirement for the project is estimated as 2m³ / 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.

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. PP has submitted the same on 21.09.2013.

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. After detailed deliberations, the Committee found the EIA/EMP report adequate and suggested to stipulate following conditions while considering for accord of environmental clearance:

A. Specific Conditions

- 1 Particulate emissions shall be controlled within 50 mg/Nm³ by installing adequate air pollution control system viz. Bag filters. Data on ambient air, fugitive emissions shall be submitted to the JSPCB's office at Ranchi
- 2 The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.
- 3 Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB should be followed.
- 4 The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyers should be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided.
- 5 Asphaltting/concreting of roads and water spray all around the stockyard and loading / unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- 6 Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials should be transported in the covered vehicles only and vehicles should not be overloaded. Vehicular emissions should be regularly monitored.



- 7 Total water requirement shall not exceed 2 m³. Necessary permission, if required, for drawing water from Borewell shall be obtained from concerned authorities. All the treated wastewater should be in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge should be adopted.
- 8 A rain water harvesting scheme shall be prepared and duly got approved from Ground Water Directorate, Government of Jharkhand. Efforts shall be made to make use of rain water harvested. Only balance water requirement shall be met from other sources.
- 9 All the bag filter dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing.
- 10 Green belt shall be developed in at least 33 % area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.
- 11 At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the JSPCB. Implementation of such program should be ensured accordingly in a time bound manner.

B. General conditions

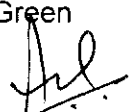
1. No change in process technology should be made without prior approval of the Statutory authorities , Jharkhand State Pollution Control Board, Ranchi during the EC period.
2. The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
3. The Project proponent shall maintain register for production and dispatch and submit return to Jharkhand State Pollution Control Board, Ranchi.
4. The Project proponent shall not cut trees / carry out tree felling in plant area without the permission of competent authority.
5. 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.
6. Industrial waste water should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
7. 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.
8. Dispensary facilities for First Aid shall be provided at site.
9. 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.
10. 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 .

11. 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.
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16. All statutory clearances shall be obtained before start of plant 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 a period of five (5) years. The PP shall not increase production rate and make modifications in process 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.

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. 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 17th 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 6th 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.

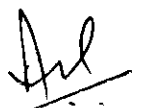
The Committee had in its previous meeting sought the following additional information;

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.

PP has submitted the above information. On seeing the records of production it is observed that the mining continued after expiry of mining lease in 1995, without environmental clearance and there is an increase in production after 1994 and also after 2006 without EC when the EIA stipulations were in force. This a case of violation and an undertaking by the Management stating that that there will not be any violation in future has been submitted. Regarding Compliance Report on conditions stipulated by JSPCB the PP was asked to submit copies of consent application submitted to JSPCB alongwith Environment Statement for past three years. PP has submitted the same.

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 12th to 14th August 2013 and during 20th to 22nd September, 2013 the Committee suggests the following TORs for consideration of SEIAA for undertaking detailed EIA / EMP study. Also SEIAA is requested to write to the State Government to take credible action under EP Act for the above violation.

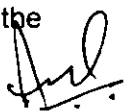
- 1 A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be included in the EIA Report.
- 2 All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, 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.
- 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 pre-dominant 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 pre placement 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. 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 21-23rd 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. Based on the decision taken in the previous meeting a team consisting of S / Shri R P S Sangu, S B S Chauhan, Prof Dr. M C Mahata and Er S K Singh members SEAC undertook a visit to site on 23rd September to ascertain the site conditions. In their Report they have recommended that the case be forwarded to SEIAA for consideration for grant of TOR.

The Committee had sought the 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.

PP has submitted the above information except for item 1. PP has applied to DMO Gumla for same. On seeing the records of production it is observed that the mining continued after expiry of mining lease on 25.03.2010, without environmental clearance and there is also an increase in production after 1994 and also after 2006 without EC when the EIA stipulations were in force. This a case of violation and an undertaking by the Management stating that that there will not be any violation in future has been submitted.

Based on the information contained in the documents submitted, presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meetings held 12th to 14th August 2013 and during 20th to 22nd September, 2013 and Report of Site Visit the the Committee suggests the following TORs for consideration of SEIAA for undertaking detailed EIA / EMP study. Also SEIAA is requested to write to the 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. Compliance Report on conditions stipulated by DMO at the time of granting of lease shall be submitted 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.

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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 pre-dominant 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 pre placement 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.

3. M/s. Chandra Bhushan, Village 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 14th 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. In the meeting held on 20.09.2013 PP came along with representative of CIMFR Dr Mrinal Chakraborty. CIMFR are accredited and are also registered with IBM as RQP and are also enlisted with Department of Mines Government of Jharkhand.

The details of mine capacity as provided in Mining Plan and Progressive Mine Closure Plan Report are

I.	Proved Reserve	:	1591759 t
II.	Probable Reserve	:	1750935 t
III.	Possible Reserve	:	1926028 t
IV.	Total Reserve	:	5268722t

Year-wise Production as proposed under Mining Plan and Progressive Mine Closure Plan Report for five years is as follows

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

Note: (During the 1st year the exposed stone face will be cleaned properly)

The proposed production rate as per Mining Plan and Progressive Mine Closure Plan Report the production is 800 t/ day.

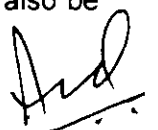
Based on the information contained in the documents submitted and presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meeting held on 20th September, 2013 the Committee suggests the following TORs for an area of 6.69 Ha for consideration of SEIAA for undertaking detailed 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 pre-dominant 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). PP / it's Consultant has indicated that they will carryout backfilling with flyash. Documents substantiating use of flyash for backfilling alongwith environmental impacts if any are to discussed in detail in the Report.
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 pre placement 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:-

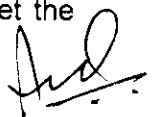
- a) A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- b) All documents may be properly referenced with index and continuous page numbering.
- c) Where data are presented in the report especially in tables, the period 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

4. surface plan of the area indicating Contours of main topographic features, drainage and mining area,
5. geological maps and sections and
6. 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.

4. BPCL'S LPG Bottling Plant having 60,000 MTPA Capacity at Village Anandi, Ormanjhi District Ranchi, Jharkhand

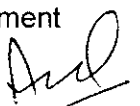
The case is pertaining to storage and bottling of LPG hence is listed as SN 6 (b) of EIA Notification 2006 and is required to obtain prior EC under the provisions of EIA Notification. The storage capacity is proposed as 2 x 300 MT. Bottling in Cylinders having capacity of 14.2 Kg / 19 Kg / 35 Kg / 47.5 Kg / 5 Kg will be carried out. LPG shall be brought in Bulk LPG Tanker. The plant is proposed at Village Anandi, Ormanjhi District Ranchi, Jharkhand which is located at a distance of 24 Km from Ranchi Railway Station. NH 33 is at a distance of 1.5 Km. It was informed that total area of 21.15 acres is required for the facility which is non agriculture land. Of the above office of Deputy Commissioner Ranchi has issued letter no 1085 (II) dated 17/05/2013 to Territory Manager informing that 20 acres of land can be transferred on lease basis after completion of formalities. PP presented the salient feature of the projects and the location, which reveals that the industry operation involves unloading of LPG coming through tank – truck into bullets / mounted storage, filling of LPG into cylinders and distribution of the same through packed trucks, Domestic water requirement is reported to be 12 KLD, which shall be obtained from ground water sources. Fire water tank of capacity 2 x 1850 KL alongwith fire water pump is proposed for installation. After deliberations committee has approved the TOR to carry out EIA / EMP with inclusion of following points.

1. Executive summary of the project.
2. Project description and the project benefits. Process details along with the proposed allied facilities and design details of all the tanks with animated model. Layout plan with the provision of truck parking area earmarking of area for parking of Lorries at a remote location to avoid congestion. Details of the storage and technical specification with the safety aspects & standards.
3. Study of alternative sites should also be submitted so as to justify the selected site from environmental angle.
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. Details of the Environment Management cell having qualified persons with proper background.
9. The study area will comprise of 10 km zone around the project.
10. 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.

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And

11. Land use plan of the project area should be prepared to encompass Pre-operational and subsequent phases and submitted.
12. High Resolution Satellite Imagery of the proposed area clearly showing the land use and other ecological features of the study area 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 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 project on wildlife of the area.
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 project 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 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. Proposal for safety buffer zone around the proposed site with map.
23. List of Industries within 10km radius of the project.
24. 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.

25. 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 project in the pre-dominant downwind direction. The mineralogical composition of PM10 particularly for free silica should be given.
26. Collection of one complete season (non-monsoon) primary base line data (along-with dates of monitoring) on environmental quality such as air (PM₁₀, PM_{2.5}, SO_x & NO_x), noise, water (surface and ground water), soil, climatology & meteorology. Background levels of hydrocarbons (methane & non-methane HC) and VOCs should also be collected.
27. The monitoring should be conducted as per Central Pollution Control Board's guidelines and parameters for water testing for both ground water as per relevant guidelines.
28. Surface water ground water, soil, noise and ambient air quality be monitored at least at eight stations /locations around the proposed site. At least one monitoring station in the upwind / downstream / non-impact non polluting area as a control station.
29. Air quality modelling 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 LPG. The details of the model used and input parameters used for modelling 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.
30. 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.
31. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
32. Details of water conservation measures proposed to be adopted in the project should be given.
33. 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.
34. 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.
35. 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.

36. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand.
37. Quantity of solid waste generation to be estimated and details for its disposal and management should be provided. Plan for disposal of Oily and Hazardous waste should be included and quantities indicated.
38. Mode of transport of LPG to and from the plant, risk analysis during transportation and safety measures thereby. 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.
39. Details of the infrastructure facilities to be provided for the workers should be included in the EIA report.
40. 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.
41. Occupational health impact of project should be anticipated and preventive measures initiated. Details of proposed Occupational Health Surveillance program for the employees and other labour should be provided. Details of pre placement medical examination and periodical medical examination schedules should be incorporated in the EMP.
42. 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.
43. 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.
44. 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. The EMP shall also include
 - Details and frequency of the Mock Drills.
 - Details of Instllation of peizometric holes to monitor the ground water quality after commissioning of Plant.
 - Detailed solid waste generation, collection, segregation its recycling and reuse, treatment and disposal.
 - Assessment of impact on air, water, soil, solid/hazardous waste and noise levels.
 - Plan for fire fighting f a c i l i t y as per OISD117 norms
 - Details of proposed preventive measures for leakages and accident.
 - Details of Vapour Recovery System.
45. Risk Assessment & Disaster Management Plan
 - i. Identification of hazards
 - ii. Consequence Analysis
 - iii. Preventive measures



- iv. Risk assessment should also include leakages during storage handling transportation and proposed measures for risk reduction
 - v. Fire and explosion hazard.
46. Risk Assessment should also include follow up/compliance to safety & hazardous material management facilities possibility of fire and explosion accident, Risk assessment for accidents at site and its impact on adjoining area risk, mitigation measures disaster management plan on site & offsite emergency plan.
 47. A separate chapter on Onsite and off site emergency plan as approved by the Health & Safety department along with Rapid risk analyses report of the plant is to be conducted and included in the EIA / EMP Report.
 48. 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.
 49. Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
 50. The EIA-EMP report covering the impacts and management plan for the project specific activities on the environment of the region and the environmental quality- all water, noise, land, biotic community through collection of data and Information, generation of data on impacts for a rated capacity.
 51. Detailed EMP to mitigate the adverse impacts due to project along-with item wise cost of its implementation (capital and recurring.)

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 LPG Bottling projects as prescribed by the Ministry shall also be filled and submitted.
- f) All statutory clearances obtained for the project shall be included in the EIA Report.
- 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 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. 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 renewal of lease for which PP is seeking EC. The lease was executed on 31.05.1993 and as informed it was further renewed upto 30.05.2013.

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 st Year	:	88501 t
2 nd Year	:	88614 t
3 rd Year	:	88382 t
4 th Year	:	92097 t
5 th 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 DFO as per Annexure 1 of SEIAA guidelines. PP was asked to submit Annexure 2 and list of mines falling within 5 km radius and details of human settlements. PP has also to provide distance of nearest mine and forest. 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 made as per relevant provision / criteria for an area more than 5 Ha.

The Committee sought following additional information;

1. Compliance Report on conditions stipulated by DMO at the time of granting of lease.

2. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past alongwith Photographs
3. 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.
4. Name of Agent since 1994.
5. Undertaking from the Board / Management that there will not be any violation in future.

PP was advised to submit the above details by 5th October 2013 so that his case could be considered for recommendation to SEIAA. The information is awaited.

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

2. Stone Quarry of Shri Rameshwar Singh at Kharkhar, P.O. Nawalsahi, Thana Markachho, Dist Koderma, Jharkhand (Area 0.44 Ha).

This is a Stone Mining Project for having an area of 0.44 Ha. The committee noted that as per Form I it is a proposal for renewal of lease for which PP is seeking EC. PP informed that the lease expired on 23rd June 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

I. Proved Reserve	:	500000 t
II. Probable Reserve	:	600000 t
III. Possible Reserve	:	800000 t
IV. Total Reserve	:	1900000 t

Year-wise Production as proposed under Mining Plan and Progressive Mine Closure Plan Report for five years is as follows

1 st Year	:	Not indicated
2 nd Year	:	24,000 t
3 rd Year	:	210,000 t
4 th Year	:	216,000 t
5 th Year	:	210,000 t

Note: (During the 1st year the exposed stone face will be cleaned properly)

There seems to be mistake in Production figures mentioned in Mining Plan Report. The proposed maximum production rate indicated in Mining Plan Report is 800 t/ day and as per Form I it is 69 t / day. The PP and Consultant / RQP were asked to recheck and come back with correct information. Committee also noted that the figures of mineable reserves and production were identical to those of case of M/s B.S.C. & C Construction Limited, J. V. . This point is to be clarified by PP and Consultant.

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.
3. Details of Plantation carried out alongwith Photographs
4. Undertaking from the Board / Management that there will not be any violation in future.

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 made as per relevant provision / criteria for an area more than 5 Ha. PP has also to provide distance of nearest mine and forest.

PP was advised to submit the above details by 5th October 2013 so that his case could be considered for recommendation to SEIAA. The information is awaited.

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

3. Stone Quarry of M/s B.S.C. & C Construction Limited, J. V. at Village Chaparvar, Thana Harihargunj, Dist Palamu, Jharkhand (Area 2.02 Ha).

This is a Stone Mining Project for having an area of 2.02 Ha. The committee noted that as per Form I it is a proposal for new Project for which PP is seeking EC. 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	:	500000 t
II.	Probable Reserve	:	600000 t
III.	Possible Reserve	:	800000 t
IV.	Total Reserve	:	1900000 t



Year-wise Production as proposed under Mining Plan and Progressive Mine Closure Plan Report for five years is as follows

1 st Year	:	Not indicated
2 nd Year	:	24,000 t
3 rd Year	:	210,000 t
4 th Year	:	216,000 t
5 th Year	:	210,000 t

Note: (During the 1st year the exposed stone face will be cleaned properly)

There seems to be mistake in Production figures mentioned in Mining Plan Report. The proposed maximum production rate indicated in Mining Plan Report is 800 t / day and as per Form I it is 70,000 t / annum. The PP and Consultant were asked to recheck and come back alongwith RQP who has prepared the mine Plan with correct information. Committee also noted that the figures of mineable reserves and production were identical to those of case of Shri Rameshwar Singh. This point is to be clarified by PP and Consultant.

The Committee also asked PP to submit Annexure 1 and Annexure 2 of SEIAA guidelines along with certificate from DFO and Circle Officer.

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.

PP was advised to submit the above details by 5th October 2013 so that his case could be considered for recommendation to SEIAA. The information is awaited.

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

4. Dugdugia Stone Mine of Sri Soma Munda at Village Dugdugia, P. O. Fudi, Dist Khunti, Jharkhand (Area 2.87 Ha).

This is a Stone Mining Project for having an area of 2.67 Ha. The mine is owned by Sri Soma Munda and operated under Power of Attorney by Sri Suresh Kumar Sahu. The lease was allotted from 28.03.2012 and is valid upto 27.03.2022. The committee noted that as per Form I it is a proposal for new Project for which PP is seeking EC. 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	:	227,000 t
II. Probable Reserve	:	53,000 t

Year-wise Production as proposed under Mining Plan and Progressive Mine Closure Plan Report for five years is as follows

1 st Year	:	Nil
2 nd Year	:	27,612 t
3 rd Year	:	27,612 t
4 th Year	:	27,613 t
5 th Year	:	27,613 t

As per Form 1 submitted by PP the proposed production rate is 27,612 t / annum (nearly 90 t / day based on 300 working days)

PP has submitted Annexure 1 and Annexure 2 of SEIAA guidelines along with certificate from DFO and Circle Officer. PP has also furnished certificate from DMO with which the committee was not satisfied. PP was asked to get the same modified. Further he was advised to obtain a certificate from DMO that the proposed mine was not operative after grant of lease.

PP informed that the RQP who has prepared the mine plan will be present in the next meeting..

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

5. Kailadhab Stone Mines of M/ s Shiv Guru Stone Works at Village Kailadhab, P.O. Tara, P.S. Jamua, Dist – Giridih, Jharkhand (Area 1.0 Ha).

The committee noted that as per Form I it is a proposal for renewal of lease for which PP is seeking EC. The lease was executed for period starting 8th April 2002 for a term of 10 years. This lease was granted in favour of M / s Raj Minerals Prop. Shri Manzoor Alam. The said lease was transferred in favour of M/ s Shiv Guru Stone Works a partnership firm vide indenture dated 10th February 2004.

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

Proved Reserve	:	201343 cu.m	503358 t
Probable Reserve	:	73333 cu.m	183332 t
Inferred Reserve	:	58664 cu.m	146660 t
Total Reserve	:	333340 cu,m,	833350 t



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

1 st Year	:	12516 cu.m	31290 t
2 nd Year	:	15107 cu.m.	37768 t
3 rd Year	:	11194 cu.m.	27985 t
4 th Year	:	18389 cu.m.	45973 t
5 th Year	:	22776 cu.m	56940 t

The existing capacity of mine is 159 t / day as indicated in Form I. In Form I it has been indicated that peak capacity would be 22776 cu.m or 56940 t per annum. Considering 300 days of operation the daily peak capacity works out to be about 190 t / day.

As per the production data (from 2002 onwards) provided in the Mine Plan Report there has been an increase in production after 2006 and as such this is a case of Violation

PP has submitted Annexure 1 and Annexure 2 of SEIAA guidelines along with certificate from DFO and Circle Officer. PP has also furnished certificate from DMO. Further he was advised to obtain a certificate from DMO that the proposed mine was not operative after lapse of lease.

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.
3. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past alongwith Photographs
4. Undertaking from the Board / Management that there will not be any violation in future.

PP was advised to submit the above details by 5th October 2013 so that his case could be considered for recommendation to SEIAA. The information is awaited.

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

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

As recorded in the previous meeting the committee was not satisfied with the details furnished during the presentation and decided that a team visits site. During the discussion it was discussed and PP agreed to welcome a team consisting of Shri S K Singh, and Prof (Dr) M C Mahata Members, SEAC Jharkhand to visit the Soapstone mine in Jamshedpur on 5th October. The members after visit will submit their Report following which TOR will be issued.

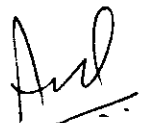
Once the site visit is completed & Report received SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.

7. Pakhar Bauxite Mine Project of, Smt. Jayawanti Kumari Bhagat, Village Pakhar, P.S. Kisko, Dist.- Lohardaga, Jharkhand (Area 35.828 Ha).

This is a Bauxite Mining Project having a lease area of 35.828 Ha. As per the documents provided the Mining lease was executed on 03.06.1986 and was valid for 20 years. PP had applied to District Mining Office, Lohardaga of Department of Mines & Geology, Government of Jharkhand on 31.05.2005 for renewal of lease. The PP applied to Member Secretary, SEIAA, Jharkhand for grant of TOR. This project falls under 'B1' Category. As per Form I they have mentioned a proposed production figure of 60,921 tonnes of Bauxite per year. As per Executive Summary the mineable reserves are 3,23,396 tonnes. The life of mine has been indicated as 6 years based on current reserves and 295 working days. The mine is located between 84°35'05" to 84°35'09" E and 23°33'55.6" to 23°34'18.64"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.

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 consisting of Shri S B S Chauhan, Prof (Dr) M C Mahata and Shri R P S Sangu Members, SEAC Jharkhand will visit Bauxite mines and submit their Report. This visit will be planned in continuation of next meeting of SEAC in September.

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.

8. Integrated Municipal Solid Waste Management Project of Jamshedpur Notified Area Committee at Mouja Khairbani, Jamshedpur District East Singhbhum, Jharkhand

The Project Integrated Municipal Solid Waste Management Project has been planned to be set up by Jamshedpur Notified Area Committee at Mouja Khairbani, Jamshedpur District East Singhbhum, Jharkhand. The proposed handling capacity of the facility will be 350 TPD and it will be set up over an area of 30.39 acres. The site is located at a distance of 8 Km from Jamshedpur Railway Station. PP alongwith the Concessionnaire – SPML Infra Limited and Consultant Ind Tech House Consult presented the salient feature of the project, its location, which reveals that the operation involves unloading of Municipal Waste coming through truck, its segregation, treatment, storage, etc. The Project has to follow Municipal Solid Waste (Management and Handling) Rules 2000 and utmost care is to be taken to avoid pollution of streams and contamination of Ground Water. In view of the possible impacts on nearby habitation and surface and ground water contamination the Committee decided that a team visits site to have an idea of same. During the discussion it was discussed and PP agreed to welcome a team consisting of Shri S K Singh, and Prof (Dr) M C Mahata Members, SEAC Jharkhand to visit the Soapstone mine in Jamshedpur on 4th October. The members after visit will submit their Report following which TOR will be issued.

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

9. Proposed Residential cum Commercial Complex” The Green Meadows” of M / s Maharaja Agrasen Jee Apno Ghar Pvt Ltd at Village Gosaidih, Tehsil Gobindpur, District Dhanbad, Jharkhand.

This is a Residential cum Commercial Complex having built up area of 112,606 sq m. The total land area is 19,504 sq m. The Committee noted that this project as per EIA Notification falls under 'B2' Category. In view of EIA notification TOR is not required, nor any formal EIA Report is to be prepared in the instant case. Also Public hearing is not called for.

Salient features of the proposed project, for which TOR is to be considered are as follows:

Land Area	: 19,504 sq m.
Total Water requirement	: 474.685KLD
Fresh Water requirement	: 296.93KLD
Wastewater generated	: 397.5 KLD (177.755 KLD to be reused after treatment 180.245 KLD to be used for MADA Green Belt Development)
Total Built-up Area	: 112,606 sq m.
Ground Coverage	: 685 sq. m. (35.12 % of land area)
No. of Parking Spaces proposed	: Cars – 312 Nos
Total Power requirement	: 4565 KW
Backup Power	: DG Set (1x 320KVA)

PP alongwith his Consultant M/s Team Institute of Science and Technology Pvt Ltd, Jaipur presented the salient feature of the project. Based on the information contained in the documents submitted and the presentation made it was observed that some additional information is required which is as follows :

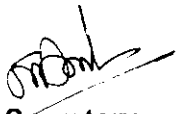
- a. Provide certificate of accreditation certificate both for company and project coordinator / presenter.
- b. Certificate from concerned Statutory Authority giving permission for establishing the Project
- c. Details of all Statutory Clearances like from Water, Power, Fire Department, Airport Authority, Explosive handling, etc as may be required /obtained for establishing the Mall are to be submitted.
- d. Details of Land use covering Road Area, Paved Area, Semi Paved Area, Plantation Area, Other Green Area, Park Area, Open Parking Area, Swimming Pool Area, Service Area, etc.
- e. Disaster Management Plan has to be prepared and submitted.
- f. PP to attempt maximum utilization of water so that there is no discharge or minimum discharge of used water after treatment.
- g. Scheme for Rain Water Harvesting which is to be duly approved by Ground Water Directorate Govt. of Jharkhand/*Central Ground Water Board.*
- h. Scheme for Management of Wastes arising from the Commercial Complex. The scheme should include segregation of wastes. The quantity of waste generated is to be indicated.
- i. Scheme for conversion of wastes to organic manure.
- j. Scheme for disposal of Sludge from STP is to be provided.
- k. Scheme for utilization of Solar Energy to maximum extent possible specially for Street lighting.
- l. PP to inform about measures it will take regarding management of traffic arising out of the Commercial Complex. Parking slots considered seem to be on a lower side. PP may reconsider the number of Parking slots.

Once the above information is received SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.

D. Projects for which PP has requested SEAC for deferment of date of presentation.

1. Stone Quarry of M /s Bandana Stone Works Mouza Lohanda, Anchal Borio, District Shahibgunj, Jharkhand (Area 3.496 Ha)
2. Stone Quarry of M /s Arun Kumar Ladia Mouza Kakarkundar Karamjora, Tehsil Bengabad, District Giridih, Jharkhand (Area 0.9146 Ha).
3. M/s Upcountry Cement Private Limited's 2 X 75 tpd Cement Grinding at Village Jangalpur, Tehsil- Govindpur, District Dhanbad, Jharkhand.
4. 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).
5. Alagdesi Stone Mine of M/s Lallan Kumar Mehta, Vill- Ektarwa, Tehsil-Dhanwar, Dist.- Giridih, Jharkhand.(Area 0.355 hac)
6. Kodiai Stone Quarry of M/s Raju Kumar Mehta & Manoj Kumar Mehta, Vill- Kodiai, Tehsil-Giridih ,Dist.- Giridih, Jharkhand. (Area 0.538 hac)
7. Stone Quarry at Tham of M/s Sri Jivlal Yadav,Vill- Tham, Tehsil- Chandwara, Dist.- Koderma, Jharkhand. (Area 1.57 Acre)
8. Stone Quarry at Tham of M/s Dhan Laxmi Stone Works, Vill- Tham, Tehsil- Chandwara, Dist.- Koderma, Jharkhand.(Area 0.40 Hac)
9. Stone Quarry at Tham of M/s Dhan Laxmi Stone Works,Vill- Tham, Tehsil- Chandwara, Dist.- Koderma, Jharkhand.(Area 2.81 Hac)
10. Ektarwa Stone Quarry of M/s Shiv Jyoti Stone Minerals,Vill- Ektarwa, Tehsil- Dhanwar, Dist.- Giridih, Jharkhand. (Area 2 Acre, 0.809 hac)
11. Purandihi Stone Mines of M/s. Jay Durga Stone Works, at Village Purandihi,Tehsil - Markacho, Dist - Koderma Jharkhand (Area 0.211 Ha).
12. Purandihi Stone Mines of Shri Umakant Rana at Village Purandihi, Tehsil - Markacho, Dist - Koderma Jharkhand (Area 0.348 Ha).

The meeting concluded with thanks to all the Members.



Secretary
SEAC



Chairman
SEAC

11/1

Visit to Harup Bauxite & laterite
mine of M/s Girish Kumar Popat in Diah
Gunda (Area 45.66 Hect.) in connection
with TOR applied for:

The following members of SEAC have made a visit to the mine on 23/9/13 accompanied with PP and their consultant.

1. S.B.S. Chauhan - Member
2. R.P.S. Sangh - Member
3. Dr M. C. Mahata - Member
4. Mr. S. K. Singh - Member

The mine was found to be closed with no activity of any kind for the last two years for the want of renewal w.e.f. 2010. Regarding compliance of lease deed conditions, there was no specific condition stipulated in the lease deed. The

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party has also not obtained CTO ^{since} ~~in~~ ~~from~~ even though they applied for CTO in ~~from~~ 2006. There are two pits worked out in the past and one pit was developed with props benches but the same needs to be expanded in further depth, as the bauxite deposit has not exhausted in the area.

Only 1/3rd of the area is under mine workings, whereas rest of the area is under forest cover with no degradation. The PP has not planted the trees in safety zone but for some plantation ~~is~~ ^{is over} the old dumps. of Karanjia

The developmental Plan for next 5 years as per the mining Plan was found to be in order and the production achievable. There was no pollution in respect of Air, water and noise around the mine area.

It was reported by the villagers that some kind of help in terms of cloths, medicine etc. was provided by the P.P. in the past. The P.P. also showed his interest in providing hospital facility to the villagers and improving the condition of existing water pond in nearby village along with local trees plantation and in development of road infrastructure.

The members agreed for recommending the TOD for preparation of EMP. - Subject to Submission of Environmental Statement of last three year - Chairman ending 23.9.13

SEAC	Month, September	1 (Member)
	2013	2 Member
		3 Member
		4 Member

28/9/2013

Visit to stone mining Project of M/s
Ranchi stone chips at Vill. Balsirup,
Hatia in Dist Ranchi (Area 4.45 Ha)

The following members of SEAC had visited the site on 22.9.13 accompanying the PP and their consultants.

1. SPS Chauhan
2. Dr RP Sanghu
3. Dr M.C. Mahata

A compliance report on the conditions stipulated by DMG in the lease deed has already been submitted by the PP. The CTO had also been obtained. However, as it was Renewal case, the mine was closed for the want of EC.

The Area comprises of a massive hillock of granite/Gneiss and the trees can not grow on such a ground but proper plantation of trees on the periphery of remaining

area was emphasised and the PP agreed to implement this task.

The stone deposit is quite conspicuous on the surface in the form of a hillock and holds good potential for sustaining a production of 200 tpd, provided proper benches are developed.

In view of above, E.C. may be recommended with a condition of implementing mining plan in letter and spirit.

Chairman
SEAC

Mr.
Member - SEAC

[Signature]
22/9/2013
Member SEAC

Bihar Chauhan
22/9/13
(SBS Chauhan)
Member