

MINUTES OF THE 11th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD FROM 20<sup>th</sup> to 23<sup>rd</sup> NOVEMBER 2013

The 11th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held from 20<sup>th</sup> to 23<sup>rd</sup> November 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. Er. S.K. Singh - Member
3. Dr. R.P. Singh Sangu - Member
4. Prof. (Dr.) M.C. Mahata - Member
5. Prof (Dr) Shatrunjay Singh - Member
6. Dr M. Mahto - Secretary

At the outset the members of the committee went through the Minutes of 10th Meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October 2013 and confirmed the same.

Various projects which were received by SEIAA after the 10<sup>th</sup> SEAC meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October, 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 MOM of the above meeting was forwarded to SEIAA on 16<sup>th</sup> December. SEIAA desired that SEAC may review the recommendations. SEAC in its 12<sup>th</sup> meeting held from 26<sup>th</sup> to 29<sup>th</sup> December went through the issues mentioned in the Point B of SEIAA meeting held on 21<sup>st</sup> December 2013. SEAC members went through cases and found that all issues raised in the paragraph have been duly addressed either in the documents submitted by PP or furnished later through a letter by PP before recommendations were made to SEIAA. Even in cases of renewal of mining leases an undertaking (not required in case of minor minerals) is sought from PP that he will abide by all regulations and will not violate any stipulation made by various agencies. However it was agreed in 12<sup>th</sup> meeting of SEAC held from 26<sup>th</sup> to 29<sup>th</sup> December that the sentence "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" be modified as follows "In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have negligible impact (not major impact) on the surroundings". However the above will form a part of EC conditions as have been recommended earlier. Accordingly the MOM of 11th Meeting of SEAC held from 20<sup>th</sup> to 23<sup>rd</sup> November 2013 is modified and forwarded to SEIAA for their consideration.

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

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

1. Chhapparwar – 1 Mine (Stone Quarry) of M/s Anand Kumar Singh, Village Chhapparwar, P.O- Chhapparwar, P.S- Hariharganj, District - Palamau, Jharkhand (1.2707 Ha) .

This is a Stone Mining Project for having an area of 1.2707 Ha (Plot Nos 129). The committee noted that as per Form I it is a proposal for new Project for which PP is seeking EC. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 2862000 t

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

1 <sup>st</sup> Year	:	100000 t
2 <sup>nd</sup> Year	:	100000 t
3 <sup>rd</sup> Year	:	100000 t
4 <sup>th</sup> Year	:	100000 t
5 <sup>th</sup> Year	:	100000 t

The PP has submitted certificates from Circle Officer, DFO and DMO. From the certificate submitted by DMO it was mentioned that application made by PP was for Stone Quarry. During presentation made by RQP it was observed that the material was Granite and Gneiss. PP was asked to get the matter clarified from DMO and submit the same for review by Committee. PP has obtained the clarification and submitted the same vide DMO's letter No 602 dated 18.11.2013.

**Based on the presentation made and information provided the Committee recommends that the proposal for Chhapparwar – 1 Mine (Stone Quarry) of M/s Anand Kumar Singh, Village Chhapparwar, P.O- Chhapparwar, P.S- Hariharganj, District - Palamau, Jharkhand (1.2707 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 grant of mining lease by the Department of Mines, Government of Jharkhand to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (% of Profit / turnover) or at least Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 10 years). The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.

3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
  4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
  5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 2. Chhapparwar – 2 Mine (Stone Quarry) of M/s Anand Kumar Singh, Village Chhapparwar, P.O- Chhapparwar, P.S- Hariharganj, District - Palamau, Jharkhand (2.238 Ha) .**

This is a Stone Mining Project for having an area of 2.238 Ha (Plot Nos 74 to 77). The committee noted that as per Form I it is a proposal for new Project for which PP is seeking EC. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 2862000 t

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

1 <sup>st</sup> Year	:	150000 t
2 <sup>nd</sup> Year	:	150000 t
3 <sup>rd</sup> Year	:	150000 t
4 <sup>th</sup> Year	:	150000 t
5 <sup>th</sup> Year	:	150000 t

The PP has submitted certificates from Circle Officer, DFO and DMO. From the certificate submitted by DMO it was mentioned that application made by PP was for Stone Quarry. During presentation made by RQP it was observed that the material was Granite and Gneiss. PP has to get the matter clarified from DMO and submit the same for review by Committee. PP has obtained the clarification and submitted the same vide DMO's letter No 601 dated 18.11.2013.

**Based on the information provided and presentation made the Committee recommends that the proposal Chhapparwar – 2 Mine (Stone Quarry) of M/s Anand Kumar Singh, Village Chhapparwar, P.O- Chhapparwar, P.S- Hariharganj, District - Palamau, Jharkhand (2.238**

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 grant of mining lease by the Department of Mines, Government of Jharkhand to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.

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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (% of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
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,  $\text{SO}_2$ ,  $\text{PM}_{10}$ ,  $\text{PM}_{2.5}$ ,  $\text{NO}_x$  (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 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
  2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 10 years). The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
  3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
  4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
  5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 3. Stone Quarry of Shri 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 (Plot No 2916 Part). 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 23<sup>rd</sup> June 2012. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational

health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

This case came up for presentation before the Committee in its meeting held from 20<sup>th</sup> to 22<sup>nd</sup> September. The PP was asked to submit additional information which he submitted later. The Committee had noted that the figures of mineable reserves and production mentioned in Mine Plan of Shri Rameshwar Singh were identical to those of case of M/s B.S.C. & C Construction Limited, J V. During its meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October this point was informed to PP and Consultant. The Consultant admitted his mistake and PP informed that he will get the Mine Plan revised through another RQP and submit the revised Mine Plan for consideration PP has got the Mine Plan revised and submitted the same.

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

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	20,700 t
3 <sup>rd</sup> Year	:	20,700 t
4 <sup>th</sup> Year	:	20,700 t
5 <sup>th</sup> Year	:	20,700 t

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

The daily production rate will be 69 tonnes from 2<sup>nd</sup> year onwards.

Based on the information provided and presentation made the Committee recommends that the proposal Stone Quarry of Shri Rameshwar Singh at Kharkhar, P.O. Nawalsahi, Thana Markachho, Dist Koderma, Jharkhand (Area 0.44 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC are given below. 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 Ajay Shankar 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 to PP 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 the IAA 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 (in case any fauna occurs / is found in the Project area)..
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.

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 LC period.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.

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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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.

16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent 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 renewal of lease for the mine (generally 10 years). The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.

3. The RQP Shri Ajay Shankar 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.

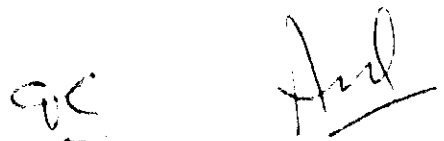
4. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.

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 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.

4. **Nawadih (Panari) Stone Quarry of M/s Arun Kumar Singh, Vill- Nawadih (Panari), Tehsil- Hunterganj, Dist.- Chatra, Jharkhand. (0.67 Ha.).**

This is a Stone Mining Project for having an area of 0.67 Ha (Plot Nos 365 / 1184 Part and 584 / 1146 Part). The committee noted that as per Form I it is a proposal for renewal of lease for which PP is seeking EC. As per documents the lease expired on 13<sup>th</sup>, September 2012. PP has applied for renewal on 7<sup>th</sup> September, 2013. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will not have any major impact on the surroundings.



The Committee during its meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October had noted that as per IBM's letter no KOL/SB(E)/Ky/MP-472 dated 30.07.2013 addressed to GM, JSMD C the name of Dr M K Chakraborty has been withdrawn as key person from list of key persons representing CIMFR. w. e. f. 19.07.2013 Dr Chakraborty has prepared Mine Plans for Minor Minerals for a number of PP's including that for Nawadih (Panari) Stone Quarry of M/s Arun Kumar Singh, Vill- Nawadih (Panari), Tehsil- Hunterganj, Dist.- Chatra, Jharkhand. (0.67 Ha.) The Committee had agreed that any other key person from CIMFR can present the cases or alternatively the PP can get the Mine Plan vetted / revised through another RQP who can then present their case. PP has got the Mining Plan prepared by another RQP and submitted the same.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 25524 t

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

1 <sup>st</sup> Year	:	2506 t
2 <sup>nd</sup> Year	:	2565 t
3 <sup>rd</sup> Year	:	2527 t
4 <sup>th</sup> Year	:	2565 t
5 <sup>th</sup> Year	:	3043 t

The daily production as per Form 1 is 10.31 tonnes

The PP has submitted certificates from Circle Officer, DFO and DMO.

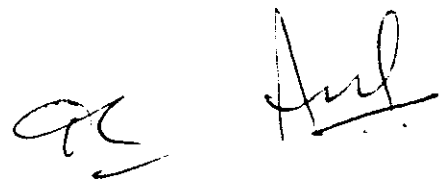
**Based on the information provided and presentation made the Committee recommends that the proposal in respect of Nawadih (Panari) Stone Quarry of M/s Arun Kumar Singh, Vill- Nawadih (Panari), Tehsil- Hunterganj, Dist.- Chatra, Jharkhand. (0.67 Ha.) be recommended for consideration of SEIAA for grant 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 to PP 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 (in case any fauna occurs / is found in the Project area)..
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NOx (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of renewal of lease for the mine (generally 10 years). 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. Pali Stone Quarry of M/s Arun Kumar Singh ,Vill- Pali, Tehsil- Hunterganj,Dist.- Chatra, Jharkhand.(1.66 Ha).**

This is a Stone Mining Project for having an area of 1.66 Ha (Plot Nos 67 and 69). The committee noted that as per Form I it is a proposal for new project for which PP is seeking EC. However the PP was carrying out mining based on Permit (from 04.09.2010 to 06.02.2012) issued by DMO, Chatra. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The Committee during its meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October had noted that as per IBM's letter no KOL/SB(E)/Ky/MP-472 dated 30.07.2013 addressed to GM, JSMDC the name of Dr M K Chakraborty has been withdrawn as key person from list of key persons representing CIMFR. w. e. f. 19.07.2013 Dr Chakraborty has prepared Mine Plans for Minor Minerals for a number of PP's including that for Pali Stone Quarry of M/s Arun Kumar Singh ,Vill- Pali, Tehsil- Hunterganj,Dist.- Chatra, Jharkhand.(1.66 Ha). The Committee had agreed that any other key person from CIMFR can present the cases or alternatively the PP can get the Mine Plan vetted / revised through another RQP who can then present their case. PP has got the Mining Plan prepared by another RQP and submitted the same.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 152365 t

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

1 <sup>st</sup> Year	:	41291 t
2 <sup>nd</sup> Year	:	37068 t
3 <sup>rd</sup> Year	:	39115 t
4 <sup>th</sup> Year	:	38035 t
5 <sup>th</sup> Year	:	37392 t

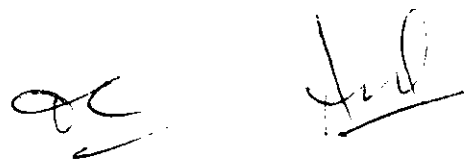
The daily production as per Form 1 is 140 tonnes

The PP has submitted certificates from Circle Officer, DFO and DMO.

**Based on the information provided and presentation made the Committee recommends that the proposal in respect of Pali Stone Quarry of M/s Arun Kumar Singh ,Vill- Pali, Tehsil- Hunterganj, Dist.- Chatra, Jharkhand (1.66 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 grant of mining lease by the Department of Mines, Government of Jharkhand to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.



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

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
  2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 10 years). The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
  3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
  4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
  5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 6. Dalkoma Stone Quarry of M/s Ashutosh Stone Works,Vill- Dalkoma, Tehsil-Hunterganj,Dist.-Chatra, Jharkhand (4.05 Ha.).**

This is a Stone Mining Project for having an area of 4.05 Ha (Plot Nos 223 and 221 / 238). The committee noted that as per Form I it is a proposal for new project for which PP is seeking EC.



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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The Committee during its meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October had noted that as per IBM's letter no KOL/SB(E)/Ky/MP-472 dated 30.07.2013 addressed to GM, JSMDC the name of Dr M K Chakraborty has been withdrawn as key person from list of key persons representing CIMFR. w. e. f. 19.07.2013 Dr Chakraborty has prepared Mine Plans for Minor Minerals for a number of PP's including that for Dalkoma Stone Quarry of M/s Ashutosh Stone Works, Vill- Dalkoma, Tehsil-Hunterganj, Dist.-Chatra, Jharkhand.(4.05 Ha.). The Committee had agreed that any other key person from CIMFR can present the cases or alternatively the PP can get the Mine Plan vetted / revised through another RQP who can then present their case. PP has got the Mining Plan prepared by another RQP and submitted the same.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 1566713 t

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

1 <sup>st</sup> Year	:	150385 t
2 <sup>nd</sup> Year	:	150622 t
3 <sup>rd</sup> Year	:	152226 t
4 <sup>th</sup> Year	:	149032 t
5 <sup>th</sup> Year	:	149901 t

The daily production as per Mine Plan / Form 1 is 516 tonnes

The PP has submitted certificates from Circle Officer, DFO and DMO.

**Based on the information provided and presentation made the Committee recommends that the proposal in respect of Dalkoma Stone Quarry of M/s Ashutosh Stone Works, Vill- Dalkoma, Tehsil-Hunterganj, Dist.-Chatra, Jharkhand(4.05 Ha.) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC are given below.**

#### A. Specific Conditions

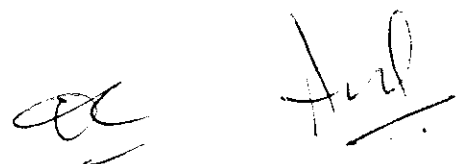
1. The environmental clearance is subject to grant of mining lease by the Department of Mines, Government of Jharkhand to PP and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. No mining shall be undertaken in the forest area without obtaining 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also

be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.

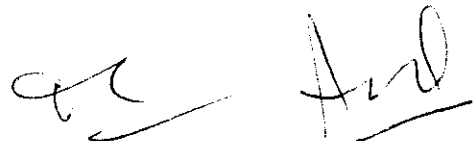
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
  2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 10 years). 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.
7. **Nawadih (Panari) Stone Quarry of M/s Ramiya Construction,Vill- Nawadih (Panari), Tehsil-Hunterganj, Dist.-Chatra, Jharkhand(0.70 Ha).**

This is a Stone Mining Project for having an area of 0.70 Ha (Plot Nos 571 Part). The committee noted that as per Form I it is a proposal for new project for which PP is seeking EC. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The Committee during its meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October had noted that as per IBM's letter no KOL/SB(E)/Ky/MP-472 dated 30.07.2013 addressed to GM, JSMDC the name of Dr M K Chakraborty has been withdrawn as key person from list of key persons representing CIMFR. w. e. f. 19.07.2013 Dr Chakraborty has prepared Mine Plans for Minor Minerals for a number of PP's including that for Nawadih (Panari) Stone Quarry of M/s Ramiya Construction,Vill- Nawadih (Panari), Tehsil-Hunterganj,Dist.-Chatra, Jharkhand.(0.70 Ha). The Committee had agreed that any other key person from CIMFR can present the cases or alternatively the PP can get the Mine Plan vetted / revised through another RQP who can then present their case. PP has got the Mining Plan prepared by another RQP and submitted the same.



The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 119092 t

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

1 <sup>st</sup> Year	:	11275 t
2 <sup>nd</sup> Year	:	11696 t
3 <sup>rd</sup> Year	:	11599 t
4 <sup>th</sup> Year	:	11745 t
5 <sup>th</sup> Year	:	12218 t

The daily production as per Form 1 is 41.41 tonnes

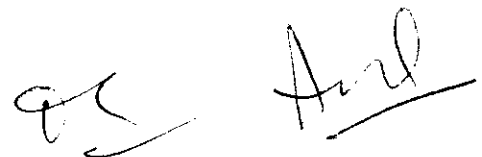
The PP has submitted certificates from Circle Officer, DFO and DMO.

**Based on the information provided and presentation made the Committee recommends that the proposal in respect of Nawadih Panari Stone Quarry of M/s Ramiya Construction, Vill- Nawadih Panari, Tehsil-Hunterganj, Dist.-Chatra, Jharkhand(0.70 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 grant of mining lease by the Department of Mines, Government of Jharkhand to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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.

Two handwritten signatures in black ink are located at the bottom right of the page. The first signature is a stylized, cursive 'AK' with a long horizontal stroke extending to the right. The second signature is a more complex cursive signature, possibly 'Anil', with a long horizontal stroke extending to the right.

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**

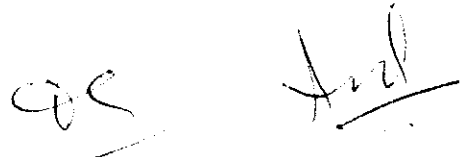
1. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
2. No change in the calendar plan including excavation, quantum 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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NOx (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 10 years). 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

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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. **Purandihi Stone Mines of M/s. Jay Durga Stone Works. at Village Purandihi, Tehsil – Markacho, Dist – Koderma Jharkhand (Area 0.211 Ha).**

This is a Stone Mining Project for having an area of 0.211 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 w.e.f.14.02.2001 for a period of 10 years. Application for renewal was filed on 14.02.2011. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

I. Proved Reserve	:	98,325 t (39,330 cu.m)
II. Probable Reserve	:	49,163 t (19,665 cu.m)
III. Possible Reserve	:	49,163 t (19,665 cu.m)
IV. Total Reserve	:	1,96,651 t (78,660 cu.m)

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

1 <sup>st</sup> Year	:	4,750 t (1,900 cu.m)
2 <sup>nd</sup> Year	:	4,750 t (1,900 cu.m)
3 <sup>rd</sup> Year	:	5,700 t(2,280 cu.m)
4 <sup>th</sup> Year	:	7,125 t(2,850 cu.m)
5 <sup>th</sup> Year	:	21,250 t(8,500 cu.m)

The PP has submitted certificates from Circle Officer and DFO. 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. DMO vide his note No 1480 dated 28.10.2013has informed that there are 4 nos of contiguous plots and the total area is less than 5 Ha.

In addition PP was asked to submit additional information which he has submitted. He has also submitted an undertaking that he will not violate any conditions in future.

**Based on the information provided and presentation made the Committee recommends that the proposal in respect of Purandihi Stone Mines of M/s. Jay Durga Stone Works. at Village Purandihi, Tehsil – Markacho, Dist – Koderma Jharkhand (Area 0.211 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 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 to PP 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 (in case any fauna occurs / is found in the Project area)..
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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.



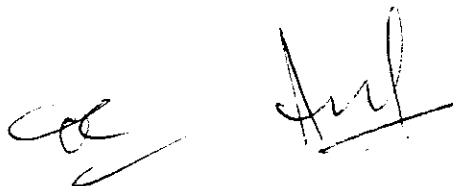
12. Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.



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

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of renewal of lease for the mine (generally 10 years). 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.
9. **Purandihi Stone Mines of Shri Umakant Rana at Village Purandihi, Tehsil – Markacho, Dist – Koderma Jharkhand (Area 0.348 Ha).**

This is a Stone Mining Project for having an area of 0.348 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 w.e.f.06.03.2003 for a period of 10 years. Application for renewal was filed before expiry of lease.

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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Proved Reserve	:	1,25,293 t ( 50,117cu.m)
Probable Reserve	:	83,530 t ( 33,412cu.m)
Possible Reserve	:	83,530 t ( 33,412cu.m)
Total Reserve	:	2,92,353 t (1,16,941 cu.m)

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

1 <sup>st</sup> Year	:	3,560 t ( 1,424 cu.m)
2 <sup>nd</sup> Year	:	4,275 t ( 1,710 cu.m)
3 <sup>rd</sup> Year	:	5,700 t( 2,280 cu.m)
4 <sup>th</sup> Year	:	12,470 t( 4,988 cu.m)
5 <sup>th</sup> Year	:	33,738 t(13,495 cu.m)

The PP has submitted certificates from Circle Officer and DFO. 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. DMO vide his note No 1481 dated 28.10.2013has informed that there are 4 nos of contiguous plots and the total area is less than 5 Ha.

In addition PP was asked to submit additional information which he has submitted. It is noted that he has not complied with some conditions. He has submitted an undertaking that he will not violate any conditions in future.

Based on the information provided and presentation made the Committee recommends that the proposal in respect of Purandih Stone Mines of Shri Umakant Rana at Village Purandih, Tehsil – Markacho, Dist – Koderma Jharkhand (Area 0.348 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 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 to PP 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 (in case any fauna occurs / is found in the Project area)..
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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.

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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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.

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

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

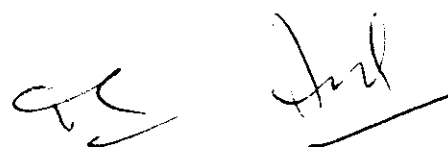
**C. Other points**

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 renewal of lease for the mine (generally 10 years). 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 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.
- 10. Dantua Stone Mines of Shri Anjaneer Kumar, Vill- Dantua, PO & PS Chattarpur, District Palamu, Jharkhand (3.659 Ha).**

This is a Stone Mining Project for having an area of 3.659 Ha (Plot Nos 260 Part). The committee noted that as per Form I it is a proposal for new project for which PP is seeking EC. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 2036113 t



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

1 <sup>st</sup> Year	:	199827 t
2 <sup>nd</sup> Year	:	198272 t
3 <sup>rd</sup> Year	:	205859 t
4 <sup>th</sup> Year	:	213116 t
5 <sup>th</sup> Year	:	215938 t

The daily production as per Form 1 is 140 tonnes

The PP has submitted certificates from Circle Officer, DFO and DMO.

**Based on the information provided and presentation made the Committee recommends that the proposal in respect of Dantua Stone Mines of Shri Anjaneer Kumar, Vill- Dantua, PO & PS Chattarpur, District Palamu, Jharkhand (3.659 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 grant of mining lease by the Department of Mines, Government of Jharkhand to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.

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

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 10 years). 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. **Stone Quarry of M/s Kwality Stone Products [Shri Amandeep Singh Partner], at Village Dhatapara & Fatehpur, PO Kotalpokhar, District Sahebganj, Jharkhand(2.884 Ha).**

This is a Stone Mining Project for having an area of 2.884 Ha (Plot Nos 426 to 433, 541, and 627 to 630). 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 in favor of Smt Balbir Kaur for a period of 10 years w e f 15.10.2002 and subsequently transferred in favor of M/s Kwality Stone Products [Shri Amandeep Singh Partner] on 14.11.2008 for balance period. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 1099800 t

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

1 <sup>st</sup> Year	:	120000 t
2 <sup>nd</sup> Year	:	120000 t
3 <sup>rd</sup> Year	:	120000 t
4 <sup>th</sup> Year	:	120000 t
5 <sup>th</sup> Year	:	120000 t

The daily production as per Mine Plan is 400 tonnes

The PP has submitted certificates from Circle Officer, DFO and DMO. Additional information desired by Committee like cpy of lease deed, undertaking that there will not be any violation in future, distance from forest and commitment for undertaking CSR activities has been submitted by PP vide his letter dated 26.11.2013.

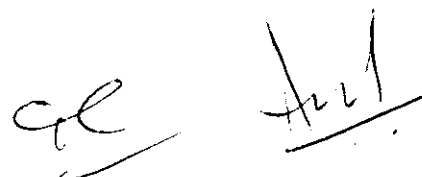
**Based on the information provided and presentation made the Committee recommends that the proposal in respect of Stone Quarry of M/s Kwality Stone Products [Shri Amandeep Singh Partner], at Village Dhatapara & Fatehpur, PO Kotalpokhar, District Sahebganj, Jharkhand (2.884 Ha) be recommended for consideration 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 to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.

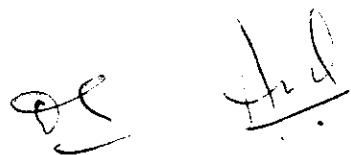


15. The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
16. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, 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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also



be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.

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

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of renewal of lease for the mine (generally 10 years). 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.

**12. Stone Quarry of Md Jamil Akhtar, at Village Khora, Tehsil Gumla, District Gumla, Jharkhand (1.83 Ha).**

This is a Stone Mining Project for having an area of 1.83 Ha (Plot Nos 4458 Part). 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 in favor of Md Jamil Akhtar from 5.09.1993 for a period of 10 years and subsequently renewed for another 10 years from 5.09.2003. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 388550 t

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

1 <sup>st</sup> Year	:	50081 t
2 <sup>nd</sup> Year	:	52100 t
3 <sup>rd</sup> Year	:	50000 t
4 <sup>th</sup> Year	:	50000 t
5 <sup>th</sup> Year	:	50800 t

The daily production as per Mine Plan is 170 tonnes

The PP has submitted certificates from Circle Officer, DFO and DMO. Committee desired that the certificate from DMO be revised to include all contiguous mines. Also PP was asked to submit additional information desired by Committee like copy of lease deed, undertaking that there will not be any violation in future, distance from forest, name of proposed plants for carrying out plantation and commitment for undertaking CSR activities. The same have been submitted by PP vide his letter dated 27.11.2013.

**Based on the information provided and presentation made the Committee recommends that the proposal in respect of Stone Quarry of Md Jamil Akhtar, at Village Khora, Tehsil Gumla, District Gumla, Jharkhand (1.83 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 to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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.

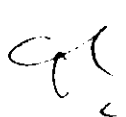

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8. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
9. There shall be no external dump(s). Monitoring and management 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of renewal of lease for the mine (generally 10 years). 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.

**13. Stone Quarry of M/s Jagdish Sahu, at Village Khora, Tehsil Gumla, District Gumla, Jharkhand (0.81 Ha).**

This is a Stone Mining Project for having an area of 0.81 Ha (Plot Nos 4458 Part). 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 in favor of Shri Jagdish Sahu from 3.03.2003 for a period of 10 years. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 120960 t

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

1 <sup>st</sup> Year	:	7150 t
2 <sup>nd</sup> Year	:	7150 t
3 <sup>rd</sup> Year	:	7150 t
4 <sup>th</sup> Year	:	7150 t
5 <sup>th</sup> Year	:	7150 t

The daily production as per Mine Plan is 23 tonnes

The PP has submitted certificates from Circle Officer, DFO and DMO. Committee desired that the certificate from DMO be revised to include all contiguous mines. Also PP was asked to submit additional information desired by Committee like undertaking that there will not be any violation in future, distance from forest, name of proposed plants for carrying out plantation and commitment for undertaking CSR activities. The same have been submitted by PP vide his letter dated 27.11.2013.

**Based on the information provided and presentation made the Committee recommends that the proposal in respect of Stone Quarry of M/s Jagdish Sahu, at Village Khora, Tehsil Gumla, District Gumla, Jharkhand (0.81 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 to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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.

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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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom

suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.

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

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
  2. The Environmental Clearance accorded shall be valid for the period of renewal of lease for the mine (generally 10 years). 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
- 14. Stone Mining Project of M/s Maa Gayatri Stone Works, Village Dundu, P.S. Hunterganj, District - Chatra, Jharkhand (1.74Ha) .**

This is a Stone Mining Project for having an area of 1.74 Ha (Plot Nos 185 Part). The committee noted that as per Form I it is a proposal for new Project for which PP is seeking EC. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 805600 t



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

1 <sup>st</sup> Year	:	50000 t
2 <sup>nd</sup> Year	:	50000 t
3 <sup>rd</sup> Year	:	50000 t
4 <sup>th</sup> Year	:	50000 t
5 <sup>th</sup> Year	:	50000 t

The PP has submitted certificates from Circle Officer, DFO and DMO. During the presentation the Committee wanted certain additional information like details of local flora and fauna, landuse details and commitment regarding CSR. PP has submitted the above information vide his letter dated 27<sup>th</sup> November 2013.

**Based on the presentation made and information provided the Committee recommends that the proposal for Stone Mining Project of M/s Maa Gayatri Stone Works, Village Dundu, P.S- Hunterganj, District - Chatra, Jharkhand (1.74Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC are given below. 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. Anal Kumar Sinha 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 grant of mining lease by the Department of Mines, Government of Jharkhand to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 10 years). The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
3. The RQP Dr. Anal Kumar Sinha 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 Trans 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.
15. **Raj Stone Mine of M/s Raj Engineering Stone Company, Village Kulgo, P.O- Dumri, District - Giridih, Jharkhand (0.81Ha) .**

This is a Stone Mining Project for having an area of 0.81 Ha (Plot Nos 3034, 3035 & 3038). The committee noted that as per Form I it is a proposal for new Project for which PP is seeking EC. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 105000 t

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

1 <sup>st</sup> Year	:	21000 t
2 <sup>nd</sup> Year	:	21000 t
3 <sup>rd</sup> Year	:	21000 t
4 <sup>th</sup> Year	:	21000 t
5 <sup>th</sup> Year	:	21000 t

The PP has submitted certificates from Circle Officer, DFO and DMO. During the presentation the Committee wanted certain additional information like details of development of Green Belt, details of local flora and fauna, cost of project and commitment regarding CSR. PP has submitted the above information vide his letter dated 23<sup>rd</sup> November 2013.

**Based on the presentation made and information provided the Committee recommends that the proposal of Raj Stone Mine of M/s Raj Engineering Stone Company, Village Kulgo,**

P.O- Dumri, District - Giridih, Jharkhand (0.81Ha) 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 grant of mining lease by the Department of Mines, Government of Jharkhand to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available

within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.

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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or

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critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.

15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 10 years). 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.

**16. Alagdesi Stone Mine of M/s Lallan Kumar Mehta, Vill- Ektarwa, Tehsil-Dhanwar, Dist.- Giridih, Jharkhand.(Area 0.355 Ha)**

This is a Stone Mining Project for having an area of 0.355 Ha. The committee noted that as per Form I it is a proposal for new Project for which PP is seeking EC. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due

consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

During the meeting PP and RQP informed that their Mine Plan has been modified and submitted copies of same and Form I also. They informed that earlier the production rate considered was 40 tpd which has been modified to 25 tpd

The details of mine capacity as provided in Mining Plan Report are

I.	Proved Reserve	:	70,118 t
II.	Probable Reserve	:	1,36,000 t
III.	Possible Reserve	:	19,742 t
IV.	Total Reserve	:	2.25,860 t

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

1 <sup>st</sup> Year	:	8,924 t
2 <sup>nd</sup> Year	:	5,584 t
3 <sup>rd</sup> Year	:	5,579 t
4 <sup>th</sup> Year	:	4,374 t
5 <sup>th</sup> Year	:	3,847 t

The PP has submitted certificates from Circle Officer, DFO and DMO. During the meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October the Committee went through the documents and was satisfied with the replies except for non clarity in certificate issued by DMO. PP was also asked to submit additional information which he has submitted the above information vide his letter dated 22.11.2013. The revised certificate of DMO (No 3427 dated 4.12.2013) has also been submitted by PP.

**Based on the presentation made and information provided the Committee recommends that the proposal of Alagdesi Stone Mine of M/s Lallan Kumar Mehta, Vill- Ektarwa, Tehsil-Dhanwar, Dist.- Giridih, Jharkhand.(Area 0.355 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 grant of mining lease by the Department of Mines, Government of Jharkhand to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS Guidelines.

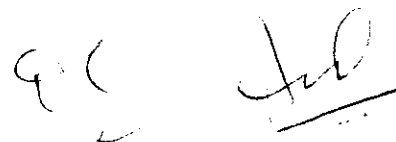
6. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
7. The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
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 / Central Ground Water Board.
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.

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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.
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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 10 years). 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.
17. **Kalichahatan Stone Mine of M/s Ganesh Minerals and Crusher Pvt. Ltd. ,Vill- Kalichahatan, P.O. Bagodar,Dist.- Giridih, Jharkhand.(1.862 Ha).**

This is a Stone Mining Project for having an area of 1.862 Ha (Plot No 10). The committee noted that as per Form I it is a proposal for new project for which PP is seeking EC. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 691368 t

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

1 <sup>st</sup> Year	:	68947 t
2 <sup>nd</sup> Year	:	73703 t
3 <sup>rd</sup> Year	:	70617 t
4 <sup>th</sup> Year	:	73221 t
5 <sup>th</sup> Year	:	70215 t

The daily maximum production based on 295 working days as per Mine Plan is 250 tonnes

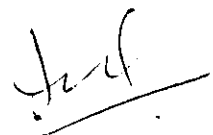
The PP has submitted certificates from Circle Officer, DFO and DMO.

**Based on the information provided and presentation made the Committee recommends that the proposal in respect of Kalichahatan Stone Mine of M/s Ganesh Minerals and Crusher Pvt. Ltd. ,Vill- Kalichahatan, P.O. Bagodar, Dist.- Giridih, Jharkhand.(1.862 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 grant of mining lease by the Department of Mines, Government of Jharkhand to PP 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 (in case any fauna occurs / is found in the Project area).
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 / Central Ground Water Board 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. Safety measures shall be adopted in line with DGMS 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. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.

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 / Central Ground Water Board.
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. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or atleast Rs 1 per ton whichever is higher.
12. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
13. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
14. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It

shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.

15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently , shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

**C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of grant of lease for the mine (generally 10 years). 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 Trans 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.

**18. Low Ash Hard Coke cum Coal washery unit of M/s Ma Chhinmastika Sponge Iron Ltd at Village Harway, P O Karma, District Ramgarh, Jharkhand**

The project proponent proposes to set-up a low ash hard coke (10,000 MTPA) plant & coal washery (12000 MTPA) plant. EIA Notification September, 2006 lists coke oven plant at Sl. No. 4 (b) & coal washery at 2 (a). As per notification, both units are category "B2" project that require environmental clearance from State Level Impact Assessment Authority (SEIAA) . Since SEIAA for Jharkhand State was not constituted at that time PP had to apply for Environmental Clearance to MOEF, Govt. of India. Accordingly, project proponent submitted prescribed Form I & Pre-Feasibility project report to MOEF for determination of Terms of Reference for environmental studies for the project.



The MOEF after presentation of Form I in the 11th Expert Appraisal Committee-1 (Industry) Meeting held on 24th June, 2010, determined Terms of Reference (TOR) for environmental studies for the project. This EIA/EMP Report has been prepared in compliance to Terms of Reference. A copy of TOR has been enclosed as Annexure - I. As directed the structure of EMP is in line with Appendix III of EIA Notification 2006. This EIA/EMP was submitted to SEIAA, Jharkhand for grant of environmental clearance for the proposed project. Being a category B2 Project, it does not require Public Hearing. This EIA/EMP includes a report on description of environment in study area through generation of baseline environment data for one season. This Report includes an assessment of impact on environmental attributes in study area due to project activities. The Report also contains appropriate pollution mitigation measures to be taken to minimize the pollution & confine their level below the level prescribed by regulatory authorities.

After presentation the Committee desired the following clarifications which after review will have to be incorporated in the EIA / EMP Report

- i. The proposed technology has to be modified and replaced with latest technology.
- ii. Scheme for Rain Water Harvesting has to be included.
- iii. Requirement of water for the plant seemed to be high. This has to be rechecked and justification given.
- iv. Water required for Quenching has to be rechecked. Scheme for treatment of Effluent from Quenching tower and its subsequent discharge is to be included in EIA / EMP Report.

PP has complied with the observations made in the previous meeting and submitted additional desired information and also made a presentation. After detailed deliberation, the Committee recommends the project i.e. Low Ash Hard Coke cum Coal washery unit of M/s Ma Chhinmastika Sponge Iron Ltd at Village Harway, P O Karma, District Ramgarh, Jharkhand for consideration of SEIAA for grant of EC. The various conditions for grant of EC are given below.

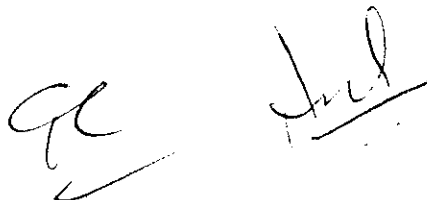
#### A. Special Conditions

1. Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided.
2. Stack monitoring facilities for all the major stacks and adequate air pollution control systems viz. dust catchers or cyclones, Multi stage scrubber, bag filters etc. to control particulate emissions to within the prescribed limits from coke oven shall be provided. Carbon mono-oxide (CO) shall also be monitored along with other parameters and standards notified under E (P) Act shall be followed. The reports shall be submitted to the Ministry's Regional Office at the Bhubaneswar, CPCB and SPCB.
3. Multi stage scrubber shall be installed to control gaseous and dust emission from the coke oven stack. Measures shall be taken to prevent leakages from the coke oven plant.
4. The prescribed emission standards for coke oven plants, as notified vide notification no. GSR 46 (E) dated 3<sup>rd</sup> February, 2006 and subsequently amended shall be complied with.
5. In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant and coke



sorting plant of coke oven plant. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.

6. Secondary fugitive emissions shall be controlled within the prescribed limits, regularly monitored and records maintained. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.
7. Total requirement of the water shall not exceed 30 m<sup>3</sup>/day. All the treated wastewater shall be recycled for dust suppression and green belt development. Domestic wastewater shall be treated in septic tank followed by soak pit and used for green belt development. Zero effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
8. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources. Rain water harvesting as proposed in the Report will be implanted in two nearby villages. The scheme has to be got approved from Ground Water Directorate, Government of Jharkhand / Central Ground Water Authority / Board.
9. Waste from the hard coke unit, shall be provided to the briquette manufacturing units. Coal and coke fines shall be recycled and reused in the process. Coal washery rejects will be used judiciously. The bag filter dust shall be used for land filling. The waste oil shall be properly disposed off as per the Hazardous Waste (Management, Handling, Handling and Transboundary Movement) Rules, 2008.
10. 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.
11. Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product. Efforts shall also 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 including fly ash and washery rejects shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions shall be regularly monitored and records kept.
12. 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.
13. As proposed, green belt shall be developed in 33% of plant area within and around the project site to mitigate the impact of fugitive emissions as per the CPCB guidelines in consultation with local DFO.
14. The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Coke Oven Plants shall be implemented.

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15. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the JSPCB within 3 months of issue of environment clearance letter.
16. 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.
17. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

#### **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.
12. 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.

13. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office. The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NO<sub>x</sub> (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
14. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad / 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.
15. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
16. All statutory clearances shall be obtained before start of plant operations.

**C. Other points**

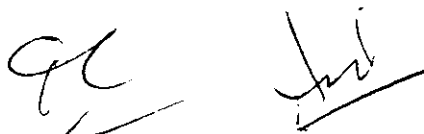
1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall 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. **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 has 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.

PP has provided the information desired by the Committee in the previous meeting. On seeing the records of production it is observed that the mining continued after expiry of mining lease on 03.06.2006 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 as desired by Committee an undertaking by the Management stating that that there will not be any violation in future has been submitted.

The committee during the meeting held on 20.09.2013 had decided that a team visits site. Accordingly a team consisting of Shri S B S Chauhan, Prof (Dr) M C Mahata and Shri R P S Sangu Members, SEAC Jharkhand visited Pakhar Bauxite mines on 26<sup>th</sup> October 2013. The site visit report has been submitted. As mentioned in the Report TOR may be issued.

**Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meetings held during 20<sup>th</sup> to 22<sup>nd</sup> September, 2013, 22<sup>nd</sup> to 25<sup>th</sup> October and 20<sup>th</sup> to 23<sup>rd</sup> November 2013, site visit and discussions 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.
10. Land use plan of the mine lease area should be prepared to encompass Pre-operational, operational and post operational phases and submitted. Plan for development of garland drains should be included in EIA Report.
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. In case Forest Land has been surrendered then relevant document from competent authority stating that the surrendered Forest Land has been accepted by it has to be included in EIA Report. The Report should clearly state the the Mine Plan has been prepared in non Forest area.
16. 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.
17. 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.
18. The vegetation in the RF / PF area with necessary details should be given. Details of Flora and Fauna in the study area is to be included in EIA Report.
19. A study shall be got done to ascertain the impact of the mining project on wildlife of the area including elephant population if any, and details furnished. Distance of nearest elephant corridor is to be indicated in EIA Report.
20. 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.

21. 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.
22. Impact, if any, of change of land use should be given.
23. 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.
24. The villages located on the periphery of mine-lease area should be protected and if necessary be relocated as per State / Central Government Policy.
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 mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10 particularly for free silica should be given. Since there are contagious mines monitoring should be made to cover them as well.
26. 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.
27. 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.
28. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
29. Details of water conservation measures proposed to be adopted in the project should be given. Sanitary waste water will be treated and used. Scheme should be included in EIA Report.
30. 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.
31. 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.

32. 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.
33. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand / Central Ground Water Board / Authority.
34. 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.
35. 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).
36. 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. Plantation should be taken up urgently.
37. 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. Approach road and internal roads are to be made pucca and scheme for water sprinkling to avoid dust generation is to be included in EIA Report.
38. Details of the infrastructure facilities to be provided for the mine workers should be included in the EIA report.
39. 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.
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 species selected should be able to thrive on low nutrient soil. They should be able to adapt to local conditions and should be resistant to drought and extreme temperatures. PP should take up this activity immediately and the details of plantation done should be given in EIA Report.
41. 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. This should also include plan for periodical health checks and safety of staff and workers.
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. Drinking water and health facilities are to be considered as a part of CSR activities. PP should take up same immediately.
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.
45. 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.
46. Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
47. 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

- I. surface plan of the area indicating Contours of main topographic features, drainage and mining area,



- II. geological maps and sections and
- III. 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. Rangamatia Pyrophyllite Mine of M/s Rungta Mines Ltd. Village Rangamatia, Tehsil Saraikela, District Saraikela – Kharsawan, Jharkhand Area (8.866 Ha)**

Rangamatia Pyrophyllite Mine over 8.866 hectares of M/s Rungta Mines Ltd. is located in the Saraikela – Kharsawan district of Jharkhand State. Mining lease was granted to M/s Rungta Mines Limited by the Mining and Geology Department, Directorate of Mine, Government of Jharkhand vide letter no.3/BM-4-01/97/933/M, Ranchi dated 01.09.2003. As per Form I they have mentioned a proposed production figure of 8,590 tonnes of Pyrophyllite per year. As per Executive Summary the proved reserves are 4,45,856 tonnes. The life of mine has been indicated as 52 years based on current reserves and 300 working days. The mine lease area located at latitude 22°45'39.27" to 22°45'27.33" and longitude 86°01'33.64" to 86°01'19.34". It is a semi-mechanized open cast mine with the presence of medium to high grade Pyrophyllite industrial mineral.

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 along with Photographs.
4. Brief write up on present Environmental conditions w.r.t air and water environment along with data if available.
5. Year-wise production details since grant of lease should be given. clearly It may also be categorically informed whether there had been any increase in production after the EIA Notification, 1994 came into force.
6. Name of Agent since 2003.
7. Undertaking from the Board / Management that there will not be any violation in future.

PP has submitted the above information

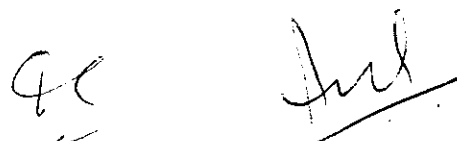


The committee was not satisfied with the details furnished during the presentation made in the meeting held in October 2013 and decided that a team consisting of Shri S B S Chauhan, Prof (Dr) M C Mahata and Shri R P S Sangu Members, SEAC Jharkhand visited the Pyrophyllite mine on 24<sup>th</sup> November.

**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 during 22<sup>nd</sup> to 25<sup>th</sup> October and 20<sup>th</sup> to 23<sup>rd</sup> November 2013, site visit and discussions 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.
10. Land use plan of the mine lease area should be prepared to encompass Pre-operational, operational and post operational phases and submitted. Plan for development of garland drains should be included in EIA Report.
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. In case Forest Land has been surrendered then relevant document from competent authority stating that the surrendered Forest Land has been accepted by it has to be included in EIA Report. The Report should clearly state the the Mine Plan has been prepared in non Forest area.
16. 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.
17. 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.
18. The vegetation in the RF / PF area with necessary details should be given.
19. A study shall be got done to ascertain the impact of the mining project on wildlife of the area including elephant population if any, and details furnished. Distance of nearest elephant corridor is to be indicated in EIA Report.
20. 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.
21. 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.
22. Impact, if any, of change of land use should be given.
23. 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.

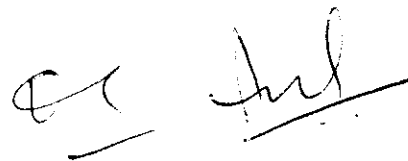


24. The villages located on the periphery of mine-lease area should be protected and if necessary be relocated as per State / Central Government Policy.
25. Collection of one season (non-monsoon) primary baseline data on ambient air quality, water quality, noise level, soil and flora and fauna. Site-specific 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 mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10 particularly for free silica should be given.
26. 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.
27. 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.
28. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
29. Details of water conservation measures proposed to be adopted in the project should be given. Sanitary waste water will be treated and used. Scheme should be included in EIA Report.
30. 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.
31. 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.
32. 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.
33. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand / Central Ground Water Board / Authority.
34. 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.
35. 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).

36. 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. Plantation should be taken up urgently.
37. 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. Approach road and internal roads are to be made pucca and scheme for water sprinkling to avoid dust generation is to be included in EIA Report.
38. Details of the infrastructure facilities to be provided for the mine workers should be included in the EIA report.
39. 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.
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 species selected should be able to thrive on low nutrient soil. They should be able to adapt to local conditions and should be resistant to drought and extreme temperatures. PP should take up this activity immediately and the details of plantation done should be given in EIA Report.
41. 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. This should also include plan for periodical health checks and safety of staff and workers.
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. Drinking water and health facilities are to be considered as a part of CSR activities. PP should take up same immediately.
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.
45. 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.
46. Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
47. 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.

Handwritten signatures and initials in black ink, appearing to be official approvals or signatures.

- 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

- i. surface plan of the area indicating Contours of main topographic features, drainage and mining area,
- ii. geological maps and sections and
- iii. 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 Jai Hanuman Cement 50 tpd Cement Grinding at Village Ghutjora, P.O. & P.S. Nirsa, District Dhanbad, Jharkhand.**

M/s. Jai Hanuman Cement have proposed setting up of a Cement Grinding unit of 50tpd Capacity by grinding of Clinker, Gypsum and Blast Furnace Slag at Village Ghutjora, P.O. & P.S. Nirsa, District. Dhanbad, Jharkhand. The total Plant area is 2.02 acres which has already been acquired. 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. 1,24 Crores.

PP informed that he will procure Clinker, Blast Furnace Slag and Gypsum through local agents / suppliers. To control particulate emissions, all major sources of air pollution shall be provided with Bag filters. . .

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

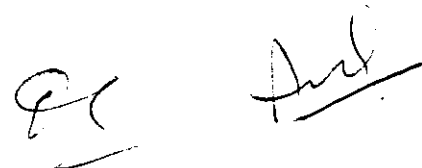
The proposal was exempted from public hearing due to use of energy efficient technology, no clinker manufacturing at the proposed site, 'zero' effluent discharge, utilization of all the solid waste in the process itself including utilization of fly ash etc.

The PP and their consultant, M/s. Enviro Consultants (Technical person), Ranchi gave a presentation on the salient features of the project and proposed environmental protection measures to be undertaken. PP made a request to treat this Project under B2 Category. The Committee considered the request of PP and keeping in view that MOEF had granted B2 Category to a similar project i.e. M/s Mittal Cement agreed to the same. The Committee exempted the proposal from Public Hearing by categorizing it as B2 Category. However for other issues the Project will be treated as B1 Category.

In the joint meeting of SEIAA and SEAC held on 24<sup>th</sup> September 2013 the following decision was taken vide point 10 Quote " In case of B1 category project the EIA / EMP may be presented only by NABET / QCI registered / accredited consultants and presentation made by specific EIA co – ordinator or functional area expert and not by any other representatives of EIA consultant organizations. As far in respect of issue of TOR is concerned the presentation can be made by Project Proponent alongwith a technical person" Unquote. Considering the above the committee agreed to allow the PP to proceed with the presentation.

**Based on the information contained in the documents submitted and presentation made before the State Level Expert Appraisal Committee (SEAC) during its Meeting held from 20<sup>th</sup> to 23<sup>rd</sup> November, 2013 the Committee suggests the following TORs for the Cement Grinding Unit of M/s Jai Hanuman Cement for consideration of SEIAA for undertaking detailed EIA / EMP study. Further PP be advised to get the EIA / EMP Report prepared by NABET / QCI registered / accredited consultants and presentation of same be made by specific EIA co – ordinator or functional area expert and not by any other representatives of EIA consultant organizations.**

1. Executive summary of the project.
2. All documents including should be compatible with one another in terms of the 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 project 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. Photographs of the proposed plant area.
9. **A line diagram/flow sheet for the process and EMP**
10. Proposal should include necessary documents indicating acquisition of land.
11. **A site location map on Indian map of 1:10, 00,000 scale followed by 1:50,000/1:25,000 scale on an A3/A2 sheet with at least next 10 Kms of terrains i.e. circle of 10 kms and further 10 kms on A3/A2 sheets with proper longitude/latitude/heights with min. 100/200 m. contours should be included. 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. A site location map on Indian map of 1:10, 00,000 scale followed by 1:50,000/1:25,000 scale on an A3/A2 sheet with at least next 10 Kms of terrains i.e. circle of 10 kms and further 10 kms on A3/A2 sheets with proper longitude/latitude/heights with min. 100/200 m. contours should be included. 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site.**
12. Present land use should be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10Km radius area from proposed site. The same should be used for land used/land-cover mapping of the area.
13. Location of national parks / wildlife sanctuary / reserve forests within 10 km. radius should specifically be mentioned. A map showing land use/land cover, reserved forests, wildlife sanctuaries, national parks, tiger reserve etc in 10 km of the project site.
14. A list of industries within 10 km radius of the plant area should be included in the EIA / EMP Report.
15. Details and classification of total land (identified and acquired) should be included.
16. Project site layout plan showing raw materials and other storage plans, bore well or water storage, aquifers (within 1 km.) dumping, waste disposal, green areas, water bodies, rivers/drainage passing through the project site should be included.
17. List of raw material required and source along with mode of transportation should be included. All the trucks for raw material and finished product transportation must be "Environmentally Compliant"
18. Quantification & Characterization of solid /hazardous waste & its action plan for management should be included.
19. Mass balance for the raw material and products should be included.
20. Collection of one season (non-monsoon) primary baseline data on ambient air quality (PM 2.5 & PM 10, SO<sub>2</sub> and NO<sub>x</sub>), 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. There should be at least one monitoring station within 500 m of the plant in the pre-dominant downwind direction.
21. 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.



22. Impact of the transport of the raw materials and end products on the surrounding environment should be assessed and provided.
23. An action plan to control and monitor secondary fugitive emissions from all the sources as per the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30<sup>th</sup> May, 2008.
24. Presence of aquifer/aquifers within 1 km of the project boundaries and management plan for recharging the aquifer should be included.
25. Source of surface / ground water level, site (GPS), cation, anion (Ion Chromatograph), metal trace element (as above) chemical analysis for water to be used. If surface water is used from river, rainfall, discharge rate, quantity, drainage and distance from project site should also be included.
26. Ground water analysis with bore well data, litho-logs, drawdown and recovery tests to quantify the area and volume of aquifer and its management.
27. 'Permission' for the drawl of water should be obtained. Water balance data must be provided. A note on the impact of drawl of water on the nearby River during lean season.
28. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand / Central Ground water Board.
29. Surface water quality of nearby River (60 m upstream and downstream) and other surface drains at eight locations must be ascertained.
30. If the site is within 10 km radius of any major river, Flood Hazard Zonation Mapping is required at 1:5000 to 1:10,000 scale indicating the peak and lean river discharge as well as flood occurrence frequency.
31. Pretreatment of raw water, treatment plant for waste water should be described in detail.
32. Action plan for solid/hazardous waste generation, storage, utilization and disposal from all the sources should also be included.
33. Action plan for the green belt development plan in 33 % area should be included. The species selected should be able to thrive on low nutrient soil. They should be able to adapt to local conditions and should be resistant to drought and extreme temperatures. PP should take up this activity immediately (since land has already been procured ) and the details of plantation done should be given in EIA Report.
34. Detailed description of the flora and fauna (terrestrial and aquatic) should be given with special reference to rare, endemic and endangered species.
35. Disaster Management Plan including risk assessment and damage control needs to be addressed and included
36. Details regarding expected Occupational & Safety Hazards. Protective measures for Occupational Safety & Health hazards so that such exposure can be kept within permissible exposure level so as to protect health of workers. Health of the workers with special reference to Occupational Health. Plan of exposure specific health status evaluation of workers; pre placement and periodical health status of workers; plan of evaluation of health of workers by pre designed format, chest x ray, Audiometry, Spirometry Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations and plan of monthly and yearly report of the health status of workers with special reference to Occupational Health and Safety.

*ET*  
*And*

37. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be included. Socio-economic development activities need to be elaborated upon.
38. Total capital cost and recurring cost/annum for environmental pollution control measures should also be included.
39. Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof should be included in the EIA Report.

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) All statutory clearances obtained for the project shall be included in the EIA Report.
- f) 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.
- g) 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.

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.

### **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 Committee in its previous meeting had desired certain information which has been submitted by PP on 28.10.2013. As informed by PP Certificates from DFO as per Annexure 1 of SEIAA guidelines, distance of nearest mine and forest and Certificate from DMO stating that there are no contiguous mining patches having total area more than 5 Ha are under process.PP has to provide copies of his various leases.

During the meeting PP informed that there are contiguous mines and he will proceed for getting TOR followed by EIA / EMP studies. SEAC will, after examining the new proposal will refer the matter to SEIAA for consideration for further action

**2. Manglashahi Stone Quarry & Crushing Project of M/s. East Coast Mining Pvt. Limited at Village Manglashahi, Block Potka, Dist – East Singhbhum, Jharkhand (Area 1.0 Ha).**

This is a Stone Mining Project for having an area of 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 w.e.f.27.09.2011 for a period of 5 years. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Proved Reserve	:	182000 t
Inferred Reserve	:	273000 t

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

1 <sup>st</sup> Year	:	15000 t
2 <sup>nd</sup> Year	:	39000 t
3 <sup>rd</sup> Year	:	39000 t
4 <sup>th</sup> Year	:	39000 t
5 <sup>th</sup> Year	:	39000 t

The PP has to obtain certificates from Circle Officer and DFO. 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. PP has submitted the same on 28.10.2013 (DMO letter No 2282 dated 22.10.2013).

PP has also submitted the Mine Plan to Department of Mines, Government of Jharkhand for approval.

During the meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October PP was asked to submit 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 CSR activities and Plantation carried out alongwith Photographs.
4. Requirement of water and its source
5. Distance from nearest Forest
6. Undertaking from the Board / Management that there will not be any violation in future.

PP has submitted part information.

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. Dumerbera / Poradih Stone Quarry & Crushing Project of M/s. East Coast Mining Pvt. Limited at Villages Dumerbera & Poradih, Block Potka, Dist – East Singhbhum, Jharkhand (Area 1.57 Ha).**

This is a Stone Mining Project for having an area of 1.57 Ha (0.66 Ha in Village Dumerbera and 0.91 Ha in Village Poradih) . The committee noted that as per Form I it is a proposal for renewal of lease for which PP is seeking EC. The leases for Dumerbera and for Poradih were executed w.e.f.11.02.2006 for a period of 5 years separately. The leases for Dumerbera and for Poradih are contiguous (part of one hillock) and total area is 1.57 Ha. Two separate applications were filed by PP as the land fell in two different villages. PP had applied to MOEF for grant of EC vide his letter dated 25<sup>th</sup> July 2012 wherein he has mentioned that he had filed a revision petition with Commissioner of Mines, Government of Jharkhand and had got relief. DMO vide his letter no 1597 dated 04.06.2012 in respect of area under Village Poradih and vide his letter no 1670 dated 14.06.2012 in respect of area under Village Dumerbera asked PP to obtain EC from MOEF. Accordingly as mentioned above PP has applied to MOEF. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Proved Reserve	:	66800 t (Village Dumerbera) 91000 t (Village Poradih)
Inferred Reserve	:	65800 t (Village Dumerbera) 77500 t (Village Poradih)

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

1 <sup>st</sup> Year	:	24000 t
2 <sup>nd</sup> Year	:	24000 t
3 <sup>rd</sup> Year	:	24000 t
4 <sup>th</sup> Year	:	24000 t
5 <sup>th</sup> Year	:	24000 t

The PP has to obtain certificates from Circle Officer. Certificate obtained from DFO was furnished by PP.

The PP has to obtain certificates from Circle Officer and DFO. 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. PP has submitted the same on 28.10.2013 (DMO letter No 2283 dated 22.10.2013).

PP has also submitted the Mine Plan to Department of Mines, Government of Jharkhand for approval. Since the mine plan involves two mining leases and the safety zone will not be left at

the common boundary between the two leases PP was advised to get the Mine plan approved by Department of Mines, Government of Jharkhand before EC can be considered.

During the meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October PP was asked to submit 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 CSR activities and Plantation carried out alongwith Photographs.
4. Requirement of water and its source
5. Distance from nearest Forest
6. Undertaking from the Board / Management that there will not be any violation in future.

PP has submitted part information

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

**4. Duniser Stone Mine of M/s Sumeet Stone Works ,Village Duniser, P.S-Deori, District Giridih, Jharkhand.(1.61Ha).**

This is a Stone Mining Project for having an area of 1.61 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 w.e.f.25.09.2001 for a period of 10 years. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

I. Mineable Proved Reserve	:	7,90,004 t
II. Mineable Probable Reserve	:	24,948 t
III. Total Reserve	:	8,14,952 t

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

1 <sup>st</sup> Year	:	64,481 t
2 <sup>nd</sup> Year	:	69,190 t
3 <sup>rd</sup> Year	:	70,133 t
4 <sup>th</sup> Year	:	77,279t
5 <sup>th</sup> Year	:	75,713 t

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The PP has submitted certificates from Circle Officer, DFO and DMO. In the meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October 2013 PP was asked to submit 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 CSR activities and Plantation carried out alongwith Photographs.
4. Requirement of water and its source
5. Distance from nearest Forest
6. Year-wise production details since grant of lease and details of Challans issued by Mining authorities.
7. Undertaking from the Board / Management that there will not be any violation in future.

PP has submitted part information vide his letter dated 23.11.2013.

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

**5. Iligara Stone Mine of M/s Ram Kripal Singh Construction Pvt. Ltd ,Village Iligara, P.S-Hatgamaria, District West Singhbhum, Jharkhand.(1.837Ha).**

This is a Stone Mining Project for having an area of 1.837 Ha. The committee noted that as per Form I it is a proposal for new Project for which PP is seeking EC. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

I. Mineable Proved Reserve	:	1,80,114 t
II. Mineable Probable Reserve	:	28,817 t
III. Total Reserve	:	2,08,931 t

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

1 <sup>st</sup> Year	:	20,763 t
2 <sup>nd</sup> Year	:	22,475 t
3 <sup>rd</sup> Year	:	21,254 t
4 <sup>th</sup> Year	:	20,892t
5 <sup>th</sup> Year	:	20,606 t

The PP has submitted certificates from Circle Officer and DFO. The Committee was satisfied with the replies except for mention of Singhbhum Elephant reserve in the certificate issued by DFO. PP was advised to submit an undertaking to DFO that he would make contribution towards Saranda Action Plan as decided by DFO and get a letter from DFO giving Do's and Don'ts to be followed by PP.

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.

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. Stone Quarry at Saharpura of M/s Balendra Kumar Singh Stone Mine, Vill-Saharpura, P.O - Sarkardeeh, P.S- Govindpur, Dist.-Dhanbad, Jharkhand.(1.16 Ha)**

This is a Stone Mining Project for having an area of 1.16 Ha (Plot Nos 289 Part). The committee noted that as per Form I it is a proposal for renewal of lease for which PP is seeking EC. As per documents the lease expired on 31<sup>st</sup>, January 2012. PP has applied for renewal which is pending due to PP obtaining EC. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The Committee during its meeting held from 22<sup>nd</sup> to 25<sup>th</sup> October had noted that as per IBM's letter no KOL/SB(E)/Ky/MP-472 dated 30.07.2013 addressed to GM, JSMDC the name of Dr M K Chakraborty has been withdrawn as key person from list of key persons representing CIMFR. w. e f. 19.07.2013 Dr Chakraborty had come for presentation for which the committee did not agree The Committee had agreed that any other key person from CIMFR can present the case in the next meeting. However the PP has got the Mining Plan prepared by another RQP and submitted the same. The RQP came for presentation.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 707265 t

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

1 <sup>st</sup> Year	:	Not indicated
2 <sup>nd</sup> Year	:	37500 t
3 <sup>rd</sup> Year	:	37500 t
4 <sup>th</sup> Year	:	37500 t
5 <sup>th</sup> Year	:	37500 t

In the first year the exposed surfaces will be cleaned and no production has been indicated. The daily production as per Mine Plan is 125 tonnes

The PP has submitted certificates from Circle Officer, DFO and DMO. It was noted that mine is 10 m from mine. PP was asked to give an undertaking that he will not mine further for a distance of 40 m. RQP has to confirm that he has while preparing the Mine Plan taken the above matter into consideration. PP was asked to submit Form I as per revised Mine Plan. Also he was advised that RQP gets himself registered with the Department of Mines, Government of Jharkhand.

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

**7. Banspahari Stone Mine of M/s Vijay Pandey ,Village Banspahari, P.S-Madhupur, District Deoghar, Jharkhand.(0,785 Ha).**

This is a Stone Mining Project for having an area of 0.785 Ha (Plot No 140). 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 w.e.f.12.04.2013 for a period of 10 years. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Proved Reserve : 157843 t

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

1 <sup>st</sup> Year	:	18152 t
2 <sup>nd</sup> Year	:	16497 t
3 <sup>rd</sup> Year	:	15694 t
4 <sup>th</sup> Year	:	16308t
5 <sup>th</sup> Year	:	17592 t

The PP has submitted certificates from Circle Officer, DFO and DMO. During the meeting PP was asked to submit following additional information.

- i. Compliance Report on conditions stipulated by DMO at the time of granting of lease
- ii. Compliance Report on conditions stipulated by JSPCB at the time of granting of consent.
- iii. Details of CSR activities and Plantation carried out alongwith Photographs.



- iv. Undertaking from the Board / Management that there will not be any violation in future.

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

**8. M/s Mahaprabhu Stone Mine, Village Dalabar, P.S-Nala, District Jamtara, Jharkhand.(0.607Ha).**

This is a Stone Mining Project for having an area of 0.607 Ha (Plot No 70 Part). The committee noted that as per Form I it is a proposal for new Project for which PP is seeking EC. As informed by PP he was carrying mining on permit basis. Subsequently he has got the Mine Lease w.e.f. 21.05.2012 for a period of 10 years. 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. In view of the size of the mine, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining haul roads and water sprinkling on same, carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health of persons engaged in mining the committee felt that the operation of the mine will have not have any major impact on the surroundings.

The details of mine capacity as provided in Mining Plan Report are

Mineable Reserve : 55499 t

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


1<sup>st</sup> Year : Nil  
2<sup>nd</sup> Year : 5549,90 t  
3<sup>rd</sup> Year : 5549,90 t  
4<sup>th</sup> Year : 5549,90 t  
5<sup>th</sup> Year : 5549,90 t

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

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

**9. Expansion of Mosabani Copper Ore Concentration Plant from 0.612 MTPA to 0.9 MTPA of M/s Hindustan Copper Limited at Village Badia, Block Mosabani District, East Singhbhum, Jharkhand.**

The Project is for expansion of Mosabani Copper Ore Concentration Plant from 0.612 MTPA to 0.9 MTPA which is spread over an area of 38.45 Ha. The original application was submitted to EAC of Mining Projects vide letter no HCL/HO/EIA/EEMP/MSB CONC/ MoEF/2012 dated 3<sup>rd</sup> October 2012 which has been forwarded to SEIAA for consideration at State Level. The salient details of the Project are as follows:

4.5  


1. Plant started operations in 1978
2. Plant Processing Capacity of Copper Ore
 

Prior to 1994 (Maximum)	8,88,255 TPA (1988 – 89)
After 1994 (Maximum)	7,78,306 TPA (1996 – 97)
Present (Existing)	6,12,000 TPA
Proposed	9,00,000 TPA
3. Production of Concentrate
 

Existing	23,000 TPA
Proposed	33,800 TPA
4. Method of work / processCrushing, Grinding followed by Froth Floatation
5. Waste Generation (Tailings) 8,66,200 TPA

The Committee noted that as per EIA Notification 2006 item 2(b) Mineral Beneficiation Projects having throughput of less than 0.1 MTPA fall under B Category and above 0.1 MTPA fall under A Category. Under item 3(a) Metallurgical Industries (ferrous and non – ferrous) Secondary metallurgical processing industry i) All toxic and heavy metal producing units having capacity less than 20,000 TPA fall under B category and more than 20,000 TPA fall under A Category. The Project is for expansion of Mosabani Copper Ore Concentration Plant from 0.612 MTPA to 0.9 MTPA (increase of production of concentrate from 23,000 TPA to 33,800 TPA i.e by 10,800TPA). The Committee felt that this Project should be considered as Category A Project. This has also been mentioned in Form I submitted alongwith the application. However since this proposal has been forwarded by MOEF for consideration at State level the Committee asked the PP and their Consultant M/s MECON Limited to make the presentation.

It was learnt that the Surda Mine which is the primary source of raw material is operating without EC and is a case of violation. It was learnt that PP was issued closure notice and was also told by JSPCB to stop mining from this mine. PP pleaded that closure will lead to technological problems and informed that the case of renewal of mining lease is under process and they have applied for EC to MOEF.

In view of the various issues like discharge of tailings, water source and discharge, etc. the committee felt that a site visit is essential to assess the situation prior to recommendation of TOR's. The visit will be undertaken by a team consisting of Prof (Dr) Shatrunjay Singh and Shri S K Singh Members, SEAC and Shri A K Saxena, Chairman SEAC along with the next meeting of SEAC in November. PP was also asked to get an Environmental audit carried out so that remedial measures can be taken up during the expansion of the Concentrator Plant. Site visit was carried out on 24<sup>th</sup> November 2013. During the visit the team had desired additional information which the PP has submitted. It was also learnt that PP had filed a case for stay on closure of Surda Mine. It was informed by PP that stay has been granted on 21.11.2013.

**SEAC will, after deliberating on the site visit Report will refer the matter to SEIAA for consideration for further action. It was also decided to request SEIAA to obtain clarification regarding category of project that whether it is Category A or Category B from MOEF. This will help avoid complications at a later stage.**

**10. Proposed Residential Complex" Anantara" of M / s Ashiana Housing Ltd at Pardih Mango, NH33, District East Singhbhum, Jharkhand.**

The Project Proponent (PP) alongwith his Consultant M / s Grass Roots Research & Creation India (P) Ltd presented the case.

The Residential Project "Anantara" involves construction on a plot area of 19,829.60 Sq.m (or 4.9 acres). Total built up area of the project is 54,205.00 Sq.m. Parking of 484 ECS is proposed against the requirement of 480 ECS. The total water requirement is 220 KLD (Fresh water requirement = 146 KLD). The source of the water is Private water Tanker during construction and MNAC (Mango Notified Area Committee) during operation phase. The sewage generation is about 155 KLD and capacity of STP is about 220 KLD. Treated water will be used for flushing/horticulture/DG cooling. The total power requirement is 1,400 KVA. Two number of DG sets of total capacity 375 KVA (i.e. 1x125+1x250) are proposed. Total solid waste generation will be 1,085 kg/day. The total cost of the project is about Rs. 65.23 Crores.

The EAC for Infrastructure, Miscellaneous Projects and CRZ in its meeting held on 18<sup>th</sup> & 19<sup>th</sup> October 2012 recommended the proposal for Environment Clearance after the PP submits information under (i) to (v) below, with the above condition in the Clearance letter for strict compliance by the project proponent.

- (i) Green belt of 6-9 meters width as committed by the proponent should be provided all around the boundary of the project.
- (ii) As committed by the proponent, 5-7 year O&M of STP should be the responsibility of the contractor.
- (iii) Minimum road width of 9 m should be adopted within the project area.
- (iv) Explore the possibility of developing Kaccha road for the use of residents.
- (v) Obtain and submit permission regarding source of water from Municipality

The file was forwarded by MOEF to SEIAA, Jharkhand and was received by them on 27<sup>th</sup> August 2013. The matter came up for discussion during the 10<sup>th</sup> Meeting of SEAC held during 22 to 25<sup>th</sup> October 2013. During the discussion / presentation following points emerged:

- A) PP was asked to submit the above details / replies along with relevant papers / documents / drawings in a consolidated form.
- B) A copy of Project Report along with copy of approved Plans and copy of Permission / Consent letter from appropriate authority (MNAC or concerned Municipal Corporation) to establish the residential Complex.
- C) Permission for supply of water from MNAC or Central Ground Water Board as applicable may be submitted.
- D) Scheme for Rain Water Harvesting has to be prepared and PP has to get the same approved by Ground Water Directorate, Government of Jharkhand/ Central Ground Water Board.
- E) Details of all Statutory Clearances like from Fire Department, Airport Authority, Explosive handling, etc as may be required /obtained for establishing the residential Complex are to be submitted.
- F) A Disaster Management Plan has to be prepared and submitted.
- G) Scheme for disposal of Sludge from STP is to be provided. Also scheme for discharge of waste water is to be provided.
- H) PP has to Maximize use of Solar Lighting. Details are to be furnished.

PP has submitted part information. Regarding balance information PP has to furnish the same. Issues identified during site visit and pending matters will be discussed in next SEAC meeting before taking further decision.

Once the PP submits the above SEAC shall examine the same and forward its recommendations to SEIAA for consideration of grant of EC.

**11. 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 4<sup>th</sup> October. The members after visit have submitted their Report.

During the meeting a number of points based on observations made were discussed and PP was asked to submit replies to same. PP has submitted his replies vide its letter nos 3020 dated 2.12.2013. The same will be discussed in the forthcoming meeting in November. In the meeting PP has requested for carrying out monitoring prior to issue of TOR. The committee was in favor for permitting PP for carrying out monitoring provided SEIAA approves of same.

**SEAC will, after examining the replies, will refer the matter to SEIAA for consideration for further action. In the meantime SEIAA may allow the PP to carry out monitoring at its own risk and cost for which SEIAA will not be responsible.**

**12. Chirodih Bauxite Mine Project of M/s P S Garg (Shri Vivek Garg), Village Chirodih, P.S. Bishnupur, Dist.-Gumla, Jharkhand (Area 16.59 Ha).**

This is a Bauxite Mining Project having a lease area of 16.59 Ha. As recorded in MOM of 21<sup>st</sup> meeting of EAC for Mining Projects, MOEF held on 28<sup>th</sup> to 30<sup>th</sup> November 2011 is for renewal of Mining lease which fell due in 2003. PP had applied to MOEF for grant of TOR. TOR's were issued to PP vide MOEF letter No J – 11015/212/2012- IA.II (M) dated 3<sup>rd</sup> October 2012, Since this project falls under 'B1' Category MOEF has forwarded the file to SEIAA, Jharkhand for n.a. It is also noted that PP has informed MOEF vide his letter dated 28.01.2013 that he has surrendered 7.97 Ha of Forest Land. It was also observed that this is a case of Violation. The PP alongwith his Consultant M / s Grass Roots Research and Creation India (P), Ltd, New Delhi made a presentation for grant of EC.

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 BSPCB / 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. Details of local flora and fauna and conservation plan for endangered species. Confirm that there is no elephant corridor in the study area.
5. Letter of acceptance of surrender (7.97 Ha) of Forest Land / Jungle / Jhari land by competent authority.
6. Based on Year-wise production details since 1994 it is a case of violation an undertaking from the Board / Management that there will not be any violation in future is to be submitted.

Once PP submitsthe above documents SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action. Also SEIAA is requested to write to the State Government to take credible action under EP Act for the above violation.

**13. Tuimu Bauxite Mine Project of M/s Beena Pani Agrawal, Village Tuimu & Hurmur, P.S. Senha, Dist.- Lohardaga, Jharkhand (Area 46.9 Ha).**

This is a Bauxite Mining Project having a lease area of 46.9 Ha. As recorded in MOM of 21<sup>st</sup> meeting of EAC for Mining Projects, MOEF held on 28<sup>th</sup> to 30<sup>th</sup> November 2011 is for renewal of Mining lease which fell due in 2005. PP had applied to MOEF for grant of TOR. TOR's were issued to PP vide MOEF letter No J – 11015/211/2011- IA.II (M) dated 30.04.2012. Since this project falls under 'B1' Category MOEF has forwarded the file to SEIAA, Jharkhand for n.a. It is noted that they have surrendered 0.13 Ha of Forest Land. It was also observed that this is a case of ViolationThe PP alongwith his Consultant M / s Grass Roots Research and Creation India (P), Ltd, New Delhi made a presentation for grant of EC.

Based on the information contained in the documents submitted and the presentation made 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 BSPCB / 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. Details of local flora and fauna and conservation plan for endangered species. Confirm that there is no elephant corridor in the study area.
5. Copy of letter of acceptance of surrender (0.13 Ha) of Forest Land / Jungle / Jhari land by competent authority (C.O.).
6. Copy of MOEF letter No J – 11015/211/2011- IA.II (M) dated 30.04.2012 whereby TOR's were issued.

Once PP submitsthe above documents SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action. MOEF vide its lletter No J – 11015/211/2011- IA.II (M) dated 31<sup>st</sup> January 2012 written to Secretary, Department of Environment, Government of Jharkhand to take credible action against PP. SEIAA may write to the State Government to find out the credible action taken by them under EP Act for the above violation.

The page contains two handwritten signatures or initials. On the left, there are initials that appear to be 'G.C.' with a checkmark below them. On the right, there is a larger, more stylized signature that appears to be 'Anil'.

**14. Amtipani Bauxite Mine Project of M/s B N Mahendru, Village Amtipani, P.O. Bishnupur, Dist.-Gumla, Jharkhand (Area 26.30 Ha).**

This is a Bauxite Mining Project having a lease area of 26.30 Ha. As recorded in MOM of 22<sup>nd</sup> meeting of EAC for Mining Projects, MOEF held on 22-23 December 2011 is for renewal of Mining lease which fell due in 2005. PP had applied to MOEF for grant of TOR. TOR's were issued to PP vide MOEF letter No J – 11015/212/2012- IA.II (M) dated 15.05.2012, Since this project falls under 'B1' Category MOEF has forwarded the file to SEIAA, Jharkhand for n.a. It is also noted from the above mentioned MOM that PP has informed MOEF that he has surrendered 8.74 Ha of Forest Land. It was also observed that this is a case of Violation. The PP alongwith his Consultant M / s Grass Roots Research and Creation India (P), Ltd, New Delhi made a presentation for grant of EC.

Based on the information contained in the documents submitted 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 BSPCB / 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. Details of local flora and fauna and conservation plan for endangered species. Confirm that there is no elephant corridor in the study area.
5. Letter of acceptance of surrender (8.74 Ha) of Forest Land / Jungle / Jhari land by competent authority.
6. Copy of MOEF letter No J – 11015/211/2011- IA.II (M) dated 15.05.2012 whereby TOR's were issued.

Once PP submitsthe above documents SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action. MOEF vide its lletter No J – 11015/211/2011- IA.II (M) dated 31<sup>st</sup> January 2012 written to Secretary, Department of Environment, Government of Jharkhand to take credible action against PP. SEIAA may write to the State Government to find out the credible action taken by them under EP Act for the above violation.

**15. New Amtipani Bauxite Mine Project of M/s Awadhesh Kumar Singh, P.O. Chandwa, Dist.- Latehar, Jharkhand (Area 49.069 Ha).**

This is a Bauxite Mining Project having a lease area of 49.069Ha. As recorded in MOM of 22<sup>nd</sup> meeting of EAC for Mining Projects, MOEF held on 22-23 December 2011 is for renewal of Mining lease which fell due in 2005. PP had applied to MOEF for grant of TOR. TOR's were issued to PP vide MOEF letter No J – 11015/212/2012- IA.II (M) dated 30.03. 2012, Since this project falls under 'B1' Category MOEF has forwarded the file to SEIAA, Jharkhand for n.a. It is also noted from the above mentioned MOM that PP has informed MOEF that he has surrendered 9.44 Ha of Forest Land. It was also observed that this is a case of Violation. The PP alongwith his Consultant M / s Grass Roots Research and Creation India (P), Ltd, New Delhi made a presentation for grant of EC.

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.

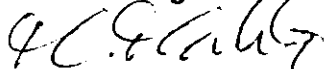
2. Compliance Report on conditions stipulated by BSPCB / JSPCB at the time of granting of Consent to establish and Consent to Operate.
3. Details of Plantation carried out and CSR activities carried out by the Mine owner in the past alongwith Photographs.
4. Details of local flora and fauna and conservation plan for endangered species. Confirm that there is no elephant corridor in the study area.
5. Letter of acceptance of surrender (9.44 Ha) of Forest Land / Jungle / Jhari land by competent authority.
6. Copy of MOEF letter No J – 11015/211/2011- IA.II (M) dated 30.03.2012 whereby TOR's were issued.

Once PP submitsthe above documents SEAC will, after examining the same, will refer the matter to SEIAA for consideration for further action.MOEF vide its lletter No J – 11015/211/2011- IA.II (M) dated 1<sup>st</sup> February 2012 written to Secretary, Department of Environment, Government of Jharkhand to take credible action against PP. SEIAA may write to the State Government to find out the credible action taken by them under EP Act for the above violation.

**D. Projects for which PP could not attend / have requested SEAC for deferment of date of presentation.**

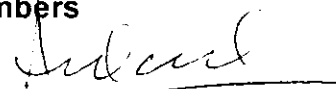
1. Ektarva & Parodih Stone Quarry of M/s Maa Tara Stone Works, Village - Ektarva & Parodih, Tehsil- Dhanwar, Dist.-Giridih, Jharkhand.(0.36 Ha)
2. Ektarwa Stone Quarry of M/s Shiv Jyoti Stone Minerals,Vill- Ektarwa, Tehsil-Dhanwar, Dist.- Giridih, Jharkhand. (Area 0.809 Ha)
3. Stone Quarry of M /s Bandana Stone Works Mouza Lohanda, Anchal Borio, District Shahibgunj, Jharkhand (Area 3 496 Ha)
4. Stone Quarry of Shri Ramesh Kumar Khandelwal at Village Mandardih, Block Bengabad, Dist Giridih, Jharkhand (Area 0.364 Ha).
5. Kodiai Stone Quarry of M/s Raju Kumar Mehta & Manoj Kumar Mehta, Vill- Kodiai, Tehsil-Giridih ,Dist - Giridih, Jharkhand. (Area 0.538 Ha)
6. 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.
7. Gourangkocha Stone Deposit of M/s Sun Eco Trading Pvt. Ltd.,Village Gourangkocha, Taluka- Ichagarh , Dist.- Saraikela-Kharsawan, Jharkhand. (Area 1.2146 Ha).
8. Pavitra Dharti Stone Quarry Works at Village Dhab, PO Chandwara Jhumri Telaiya, Dist – Koderma Jharkhand (Area 1.41 Ha).
9. Surjabasa Limestone Mine of M/s Narsinh Hirji. Village Surjabasa, PS Chaibasa, District West Singhbhum, Jharkhand Area (16.70 Ha)

**The meeting concluded with thanks to all the members**



(M. Mahto)  
Secretary

15.01.2014



(A K Saxena)  
Chairman