

MINUTES OF THE 17th MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD FROM 07th to 10th May 2014

The 17th meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held from 07th to 10th May 2014 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 Kumar Singh - Member
6. Dr Mahendra Mahto - Secretary

Various projects which were received by SEIAA after the previous SEAC meeting held from 14th to 16th April 2014 and forwarded to SEAC for their technical appraisal came up for discussions. Also those Projects which were appraised in SEAC's earlier meetings in which PP's were asked to provide additional information / clarifications were also considered for examination / scrutiny where the Project proponents had submitted replies. Accordingly, the Project proponents were asked to make technical presentation for the appraisal of their project before the committee.

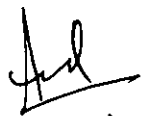
The following observations were made during the Presentation (Project Wise) in brief.

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

1. Brick Clay Mining of M/s Mayur Bricks, Vill-Tordar, Dist.- Lohardaga, Jharkhand (0.90 Ha).

This is a Brick Clay Mining Project for having an area of 0.90 Ha [Plot No-81/94, 82/97 & 83/96]. 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.

The project was reviewed in light of Office Memorandum No. L-11011/47/2011-IA.II(M), dated- 24th June, 2013 issued by MoEF and SEIAA guidelines with respect to proposed Mining Scheme. Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. In view of the size of the pit, production rate and the mineral mined and the assurance given by PP that he will give due consideration to environment by maintaining road from pit to kiln 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



indicated project cost is Rs 6 Lakhs and a provision of Rs 0.30 Lakhs will be kept for Environment management.

PP has submitted certificates information as required under SEIAA guidelines. PP was asked to submit additional information which he has submitted. The informations were examined and found to be satisfactory.

The proposed annual production capacity as per Form I has been indicated as 3230 m³.

Based on the presentation made and information provided the Committee recommends that the proposal for Brick Clay Mining of M/s Mayur Bricks, Vill-Tordar, Dist.-Lohardaga, Jharkhand (0.90 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 permit by the Department of Mines, Government of Jharkhand to PP Latest Minor Mineral Concession Rules of Govt. of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
2. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.
3. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals / Brick Earth Mining.
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 activity associated with borrowing / excavation of 'brick earth' and 'ordinary earth' for purpose of brick manufacturing, construction of roads, embankments etc. shall not involve blasting.
6. The borrowing / excavation activity shall be restricted to a maximum depth of 2 m below general ground level at the site. However – excavation shall not intercept with ground water level at site.
7. The borrowing / excavation activity shall not alter the natural drainage pattern of the area.
8. The borrowing / excavated pit shall be restored by the project proponent for useful purpose (s).
9. Appropriate fencing all around the borrowed / excavated pit shall be made to prevent any mishap.
10. Measures shall be taken to prevent dust emission by covering of borrowed / excavated earth during transportation.
11. Safeguards shall be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing / excavation of earth.
12. Workers / labours shall be provided with facilities for drinking water and sanitation.
13. A considerable space from mine pit shall be left from the boundary of adjoining field, having, minimum width of 5M.
14. A minimum distance of 15 m from any civil structure shall be kept from the periphery of any excavation area.

15. 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.
16. 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.
17. 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.
18. 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.
19. The project proponent should implement suitable conservation measures to augment ground water resources in the area as per guidelines of Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
20. 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.
21. Suitable rainwater harvesting scheme shall be planned and implemented as per guidelines of Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
22. 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.
23. 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.
24. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
25. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
26. Provision shall be made for the housing of 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.
27. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
28. A final mine closure scheme plan of mine pit shall be submitted to concerned DMO in advance of final mine closure for approval.
29. The excavated earth – by such Brick mining pit owner – shall be supplied only to owners of manufacturing of bricks –having “Consent to Operate” under the provision of section 25 and



26 of The water (prevention and control of pollution) Act, 1974 and under section 21 of The Air (prevention and control of pollution) Act, 1981.

30. All haul roads connection to mining pit head to concerned Brick kilns – shall have muram / Brick paved road to avoid fugitive emission during transportation activities. In addition to this there shall be tree plantation in both side along the haul road.
31. Prime agricultural land shall not be used for earth mining – until and unless – permission of conversion of land has been obtained by component authority.

B. General conditions

1. No change in mining methodology 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 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. 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. 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).
10. 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.
11. 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 its concerned Regional Office and to SEIAA.
12. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO₂ ,NO_x (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored

and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.


13. 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.
14. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along the status of compliance of EC conditions and shall also be submitted to the concerned Regional Office of JSPCB by e-mail.
15. 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 will be valid till the period of land lease and subject to renewal of mining permit which are generally granted for period of 6 month at one time. 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. Mangalashahi Stone Quarry & Crushing Project of M/s East Coast Mining Pvt. Ltd., Vill- Mangalashahi, Block- Potka, Dist.- East Singhbhum, Jharkhand. (1.00 Ha).

This is a Stone Mining Project for having an area of 1.00 Ha (Plot No- 323 (P)): 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 valid w.e.f. 27.09.2011 for a period of 05 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.

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. 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 indicated project cost is Rs 35 Lakhs and a provision of Rs 1.70 Lakhs will be kept for Environment management.

The details of mine capacity as provided in Mining Plan are

Mineable Proved Reserve : 1,82,000 t

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

1 st Year	:	15000 t
2 nd Year	:	39000 t
3 rd Year	:	39000 t
4 th Year	:	39000 t
5 th Year	:	39000 t

The daily production as per Form 1 is 130 tonnes.

PP was asked to submit additional information which he has submitted. The informations were examined and found to be satisfactory.

Based on the presentation made and information provided the Committee recommends that the proposal for Mangalashahi Stone Quarry & Crushing Project of M/s East Coast Mining Pvt. Ltd., Vill- Mangalashahi, Block- Potka, Dist.- East Singhbhum, Jharkhand. (1.00 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. 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.
2. 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.

3. 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.
4. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
5. 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).
6. 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.
7. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.



15. 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.
16. 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.
17. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
18. 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.
19. 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.
20. Drills shall either be operated with the dust extractors or equipped with water injection system.
21. 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.
22. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
23. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
24. 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.
25. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
26. 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.
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 / monitoring 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,SO₂ ,NO_x (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986.as amended



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

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

C. Other points

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for the period of renewal of lease that is upto 26.09.2016. 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 at Goalmara of M/s Vikash Kumar Singh Stone Chips, Vill-Goalmara, P.O-Pragha, P.S-Baliapur, Dist.-Dhanbad, Jharkhand (1.82 Ha) .

This is a Stone Mining Project for having an area of 1.82 Ha (Plot No- 989 & 991). 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 valid w.e.f. 24.07.2003 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.

The project was reviewed with respect to proposed Mining Plan, Environmental protection measures proposed to be adopted, proposal for carrying out CSR activities for socio-economic development, development of green belt, due consideration of occupational health, etc. 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 indicated project cost is Rs 20 Lakhs and a provision of Rs 0.80 Lakhs will be kept for Environment management.

The details of mine capacity as provided in Mining Plan are

Mineable Proved Reserve : 761443 t

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

1 st Year	:	84960 t
2 nd Year	:	84234 t
3 rd Year	:	85144 t
4 th Year	:	84376 t
5 th Year	:	84376 t

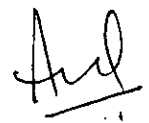
The daily production as per Form 1 is 200 tonnes.

PP has submitted all information. The informations were examined and found to be satisfactory.

Based on the presentation made and information provided the Committee recommends that the proposal for Stone Quarry at Goalmara of M/s Vikash Kumar Singh Stone Chips, Vill- Goalmara, P.O-Pragha, P.S-Baliapur, Dist.-Dhanbad, Jharkhand (1.82 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. 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.
2. 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.
3. 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.
4. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
5. 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).
6. 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.

7. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
18. 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.

19. 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.
20. Drills shall either be operated with the dust extractors or equipped with water injection system.
21. 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.
22. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
23. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
24. 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.
25. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
26. 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.
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 / monitoring 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,SO₂ ,NO_x (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
15. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
16. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
17. All statutory clearances shall be obtained before start of mining operations.

C. Other points

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

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

1. M/s Balmukund Sponge & Iron Ltd., Vill.-Manjhiladih, Tehsil- Giridih, Dist.-Giridih, Jharkhand (10.669 Ha).

M/s. Balmukund Sponge Iron Limited at present operates Mini Blast Furnace Unit 110 TPD, Induction Furnace of 60 TPD capacity each, & Rolling Mill of capacity 50 TPD and Ferro Alloy Plant 35 TPD at Vill.-Manjhiladih, Tehsil- Giridih, Dist.-Giridih, Jharkhand and has received Consent to Operate from Jharkhand State Pollution Control Board vide Letter No. PC/Air/HBG/B-60/07/D-436(C), dated 18/02/2014. They now propose to install Iron Ore Beneficiation plant 94000TPA by 2x7 MT, 1x15 MT Induction Furnace with 2 strand of Continuous Casting Machine. No extra land is required for the proposed expansion. (Existing: 26.354 Acres and Additional area: Nil). The latitude and longitude of the project site is 24° 07' 14.03" N and 86°21' 16.31" E respectively. No Forest land is involved. No national park/wild life sanctuary/ecologically sensitive area located within 10 km radius of the project site. The cost of the project is Rs. 19 Crores.

The status of existing and proposed expansion units are as given below:-

Existing Units :-

S. No.	Plant details	Capacity (TPD)
1.	Mini Blast Furnace	110 TPD
2.	Induction Furnace Unit	60TPD
3.	Rolling Mil	50 TPD
4.	Ferro Alloys Plant	35 TPD

Proposed Units

S. No.	Plant details	Capacity
1.	Steel Melting shop (Induction Furnace with 2 strand CCM)	290 TPD (2 X 7 MT, 1 X 15 MT)
2.	Iron Ore Beneficiation	94000 TPS (throughput)

The project authorities along with their consultant M/s. Visiontek Consultancy Services Pvt. Ltd., Bhubneswar gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Terms of Reference for preparation of EIA / EMP report.

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 07th to 10th May 2014 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study.

- 1 Executive summary of the project.
- 2 Photographs of the existing and proposed plant area.
- 3 A certified report of the status of compliance of the conditions stipulated in the environmental clearance and Consent to Operate for the existing operation of the project from JSPCB.
- 4 Recent monitoring report which shall include data on AAQ, stack emission data, water quality, solid waste etc. shall be submitted.
- 5 Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, compliance to the notice(s).
- 6 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.
- 7 Present land use should be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quick bird, 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.
- 8 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.
- 9 Details and classification of total land (identified and acquired) should be included. Necessary documents indicating acquisition of land should be included.
- 10 Coordinates of the plant site with topo sheet co-ordinates should also be included.
- 11 A list of industries within 10 km radius of the plant area.
- 12 Residential colony should be located in upwind direction.
- 13 Action plan for the green belt development plan in 33 % area should be included.
- 14 Ecological status (Terrestrial and Aquatic) is vital. Detailed description of the flora and fauna (terrestrial and aquatic) should be given with special reference to rare, endemic and endangered species and various issues addressed and included.

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

Process Related:

- 18 A line diagram / flow sheet for the process and EMP shall be submitted.
- 19 Project site layout plan showing raw materials and other storage plans, bore well or water storage, aquifers (within 1 km.) green areas, water bodies and rivers/drainage passing through the project site should be included.
- 20 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".
- 21 Mass balance for the raw material and products should be included.
- 22 Studies for slurry, sludge material and solid waste generated should also be included, if the raw materials used has trace elements and a management plan. Manufacturing process details for all the process units should be included.
- 23 Possibility of installation of WHRB will be explored and details included.
- 24 Energy balance data for all the components should be incorporated.

Air Environment

- 25 Site-specific micro-meteorological data like temperature, relative humidity, hourly wind speed and direction, rainfall etc.
- 26 Ambient air quality at monitoring should be carried out adequately as per NAAQS 2009. Ambient air quality monitoring along with cumulative impact should be included for the day (24 hrs) for maximum GLC along with following:
 - i. Emissions (g/second) with and without the air pollution control measures.
 - ii. Meteorological inputs (wind speed, m/s), wind direction, ambient air temperature, cloud cover, relative humidity & mixing height using SODAR on hourly basis.
 - iii. Model input options for terrain, plume rise, deposition etc.
 - iv. Print-out of model input and output on hourly and daily average basis.
 - v. A graph of daily averaged concentration (MGLC scenario) with downwind distance at every 500 m interval covering the exact location of GLC.
 - vi. Details of air pollution control methods used with percentage efficiency that are used for emission rate estimation with respect to each pollutant.
 - vii. Applicable air quality standards as per LULC covered in the study area and % contribution of the proposed plant to the applicable Air quality standard. In case of expansion project, the contribution should be inclusive of both existing and expanded capacity.

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- viii. No. I-VII are to be repeated for fugitive emissions and any other source type relevant and used for industry.
 - ix. Graphs of monthly average daily concentration with down-wind distance.
 - x. Specify when and where the ambient air quality standards are exceeded either due to the proposed plant alone or when the plant contribution is added to the background air quality.
- 27 Fugitive dust protection or dust reduction technology for workers within 30 m of the plant active areas.
 - 28 Determination of atmospheric inversion level at the project site and assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features.
 - 29 Air pollution control measures during charging of raw materials into the Induction Furnace and during operation of the furnace shall be detailed.
 - 30 Air Quality Impact Predication based on CPCB/MoEF approved model(s) shall be presented.
 - 31 Impact of the transport of the raw materials and end products on the surrounding environment should be assessed and provided.
 - 32 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 30th May, 2008.

Water Environment

- 33 Presence of aquifer/aquifers within 1 km of the project boundaries and management plan for recharging the aquifer should be included.
- 34 If surface water is used from river, rainfall, discharge rate, quantity, drainage and distance from project site should also be included.
- 35 Ground water analysis at 8 locations with bore well data, litho-logs, drawdown and recovery tests to quantify the area and volume of aquifer and its management.
- 36 'Permission' for the drawl of water should be obtained from concerned authorities. Water balance data must be provided.
- 37 Action plan for rainwater harvesting measures should be prepared and the same should be got duly approved from Ground Water Directorate, Government of Jharkhand .
- 38 Surface water quality at 8 locations must be ascertained.
- 39 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.
- 40 Pre-treatment of raw water, treatment plant for waste water should be described in detail. Design specifications may be included.

Solid Waste Management

- 1 Action plan for solid/hazardous waste generation, storage, utilization and disposal particularly slag from all the sources should also be included.
- 2 Identification and details of land to be used for all type of slag disposal in the secured land fill as per CPCB guidelines should be included.
- 3 End use of solid waste/slag and its composition should be covered.
- 4 Toxicity should be assessed following standard leaching procedures particularly the Toxicity Characteristic Leachate Procedure (TCLP) test for the slag.

Safety and Health

- 41 Risk/Disaster Management needs to be provided.
- 42 Occupational Health:
 - a) Details of existing Occupational & Safety Hazards. What are the exposure levels of above mentioned hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
 - b) Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analysed data of abovementioned parameters as per age, sex, duration of exposure and department wise.
 - c) Annual report of health status of workers with special reference to Occupational Health and Safety.
 - d) Plan and fund allocation to ensure the occupational health & safety of all contract and sub-contract workers.
- 43 Corporate Environment Policy
 - I. 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.
 - II. 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.
 - III. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
 - IV. Does the company have 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.
- 44 Public hearing.

The following general points should be noted:

- I. Properly indexed, page numbered.
- II. Period/date of data collection should be clearly indicated. (non monsoon).
- III. Authenticated English translation of all material in Regional languages should be provided.




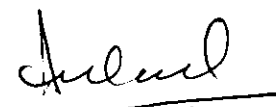
- IV. The letter/application for environmental clearance should quote the SEIAA, Jharkhand file No. and also attach a copy of the letter.
- V. The copy of the letter received from the Ministry should be also attached as an annexure to the final EIA-EMP Report.
- VI. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report
- VII. 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.
- VIII. The consultants involved in the preparation of EIA / EMP report after accreditation with Quality Council of India (QCI) / National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA /EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc.

It was decided that 'TORs' prescribed by the State level Expert Appraisal Committee should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Where the documents provided are in a language other than English, an English translation should be provided. The final EIA report shall be submitted to the SEIAA for obtaining environmental clearance.

The TORs prescribed shall be valid for a period of two years for submission of the EIA/EMP Report.

The meeting concluded with thanks to all present.


(Dr. Mahendra Mahato)
Secretary


(A K Saxena)
Chairman