

MINUTES OF THE 102ND MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 21ST, 22ND, 23RD, 24TH and 25TH MARCH, 2023.

The 102nd meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 21st, 22nd, 23rd, 24th and 25th March, 2023 under the Chairmanship of Shri Ashok Kumar Singh, IFS (Retd.) in the Conference Room at SEAC, Ranchi.

The following members were present :

1. Shri Ashok Kumar Singh, IFS (Retd.) - Chairman
2. Dr. Kirti Avishek - Member
3. Shri Niranjana Lal Agarwalla - Member
4. Dr. Raju Kumar - Member
5. Dr. Ajay Govind Bhatt - Member
6. Shri Srikant Verma, IFS - Secretary

Day 1 : March 21st, 2023 [Tuesday]

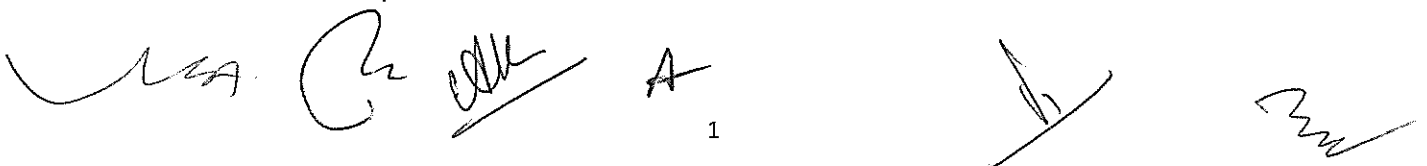
A. Deputy Commissioner, Godda or through authorized representative and M/s Sathi Planners Pvt. Ltd.

i. Final District Survey Report (DSR) of Sand, Godda.

The Final DSR was submitted by Deputy Commissioner, Godda. He was represented by District Mining Officer, Godda Sri Meghlal Tuddu and Assistant Director, Geology, Dumka Sri Niral Dhan at the SEAC meeting on 21.03.2023.

During the meeting the consultant M/s Sathi Planners Pvt. Ltd., Ranchi in the presence of DMO, Godda and Assistant Director, Geology, Dumka presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.

1. The final DSR submitted is duly signed by all members of the Sub Divisional Committee and the Consultant. All the pages of the DSR are signed by the authorized officer of the Sub Divisional Committee.
2. The final DSR consists of the complete potential area and is demarcated as Potential Resource Area (PRA) / Sand Leases / Ghats as per EMGSM guideline 2020.
3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 20.11.2022. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities / active channels of the river.



7. Khata & Khasra numbers of the lease area certified by the concerned Circle Officer (CO) are incorporated in the final DSR.
8. The distance of PRA / Sand Leases / Ghats from the Forest / Wildlife Protected area / Birds Sanctuary/ Wildlife Sanctuary / National Park / Eco Sensitive Zone has been verified and certified by the concerned DFOs of the respective Territorial and Wildlife division.
9. A report detailing the presence of aquatic animal in the river in proximity of the proposed PRA / Sand Leases / Ghats is included in the final DSR.
10. The proposed PRA / Sand Leases / Ghats meet the siting criteria of State Pollution Control Board / SEIAA.
11. High resolution color satellite images of the proposed potential sand mining areas are included in final DSR.
12. Bulk density and specific gravity of sand sample data has been provided by NABL accredited laboratory.
13. Cluster and contiguous cluster formation as per EMGSM guidelines, 2020 has been included in the Annexures.
14. Mining is restricted to 3/4th of the river width and 60% of the mineable reserve.
15. Transportation routes for movement of sand are provided in the final DSR.
16. All the annexures as per EMGSM guidelines, 2020 are included in the final DSR.
17. An undertaking with reference to Point no. 9.3 of the EMGSM guidelines, 2020 regarding monitoring of mining near inter-district or inter-state boundary has been provided.
18. The representative of the Sub Divisional Committee along with the Consultants have affirmed that all the guidelines of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors have been followed in preparation of the final DSR.

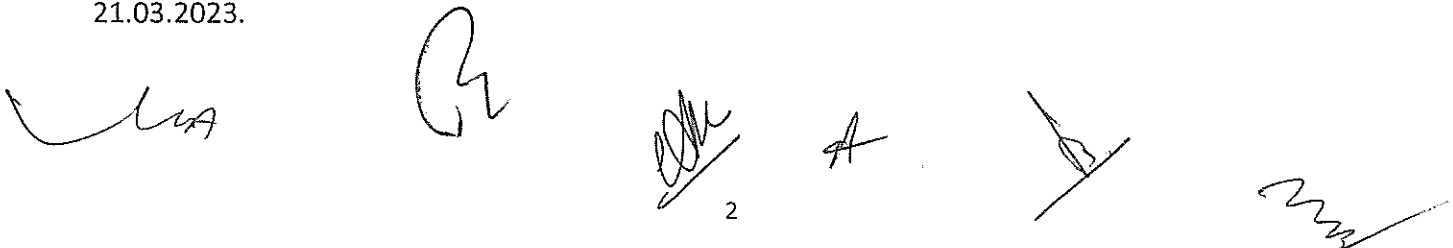
During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District Godda is recommended to SEIAA for approval.

B. Deputy Commissioner –cum- District Magistrate, Latehar or through authorized representative and M/s Sathi Planners Pvt. Ltd.

i. Final District Survey Report (DSR) of Sand, Latehar.

The Final DSR was submitted by Deputy Commissioner –cum- District Magistrate, Latehar. He was represented by District Mining Officer, Godda Sri Anand Kumar at the SEAC meeting on 21.03.2023.



The block contains several handwritten signatures and initials. From left to right: a signature that appears to be 'S.A.', a large stylized 'R', a signature that appears to be 'S.A.', a signature that appears to be 'A', a signature that appears to be 'S.A.', and a signature that appears to be 'S.A.'. Below the signature 'S.A.' (second from left) is the number '2'.

During the meeting the consultant M/s Sathi Planners Pvt. Ltd., Ranchi in the presence of DMO, Latehar presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.

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3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 26.11.2022. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities /active channels of the river.
7. Khata & Khasra numbers of the lease area certified by the concerned Circle Officer (CO) are incorporated in the final DSR.
8. The distance of PRA / Sand Leases / Ghats from the Forest / Wildlife Protected area / Birds Sanctuary/ Wildlife Sanctuary / National Park / Eco Sensitive Zone has been verified and certified by the concerned DFOs of the respective Territorial and Wildlife division.
9. A report detailing the presence of aquatic animal in the river in proximity of the proposed PRA / Sand Leases / Ghats is included in the final DSR.
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16. All the annexures as per EMGSM guidelines, 2020 are included in the final DSR.
17. An undertaking with reference to Point no. 9.3 of the EMGSM guidelines, 2020 regarding monitoring of mining near inter-district or inter-state boundary has been provided.
18. The representative of the Sub Divisional Committee along with the Consultants have affirmed that all the guidelines of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil

Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors have been followed in preparation of the final DSR.

During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District Latehar is recommended to SEIAA for approval.

C. District Magistrate –cum- Deputy Commissioner, Dumka or through authorized representative and M/s Sathi Planners Pvt. Ltd.

i. Final District Survey Report (DSR) of Sand, Dumka.

The DSR submitted was not complete as per the EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors and same has been admitted by the DMO, Dumka Shri Krishna Kumar Kisku and Assistant Director, Geology, Dumka Shri Niraj Dhan.

The DSR should be revised and submit the same for reconsideration.

D. Deputy Commissioner –cum- District Magistrate, Pakur or through authorized representative and M/s Atmos Sustainable Solution Pvt. Ltd., Noida, U.P.

i. Final District Survey Report (DSR) of Sand, Pakur.

The Final DSR was submitted by Deputy Commissioner –cum- District Magistrate, Pakur. He was represented by District Mining Officer, Pakur Shri Pradeep Kumar at the SEAC meeting on 21.03.2023.

During the meeting the consultant M/s Atmos Sustainable Solution Pvt. Ltd., Noida in the presence of DMO, Pakur presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.

1. The final DSR submitted is duly signed by all members of the Sub Divisional Committee and the Consultant. All the pages of the DSR are signed by the authorized officer of the Sub Divisional Committee.



2. The final DSR consists of the complete potential area and is demarcated as Potential Resource Area (PRA) / Sand Leases / Ghats as per EMGSM guideline 2020.
3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 19.12.2022. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities / active channels of the river.
7. Khata & Khasra numbers of the lease area certified by the concerned Circle Officer (CO) are incorporated in the final DSR.
8. The distance of PRA / Sand Leases / Ghats from the Forest / Wildlife Protected area / Birds Sanctuary/ Wildlife Sanctuary / National Park / Eco Sensitive Zone has been verified and certified by the concerned DFOs of the respective Territorial and Wildlife division.
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10. The proposed PRA / Sand Leases / Ghats meet the siting criteria of State Pollution Control Board / SEIAA.
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16. All the annexures as per EMGSM guidelines, 2020 are included in the final DSR.
17. An undertaking with reference to Point no. 9.3 of the EMGSM guidelines, 2020 regarding monitoring of mining near inter-district or inter-state boundary has been provided.
18. The representative of the Sub Divisional Committee along with the Consultants have affirmed that all the guidelines of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors have been followed in preparation of the final DSR.

During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District Pakur is recommended to SEIAA for approval.

E. District Magistrate-cum- Deputy Commissioner, Gumla or through authorized representative and M/s Atmos Sustainable Solution Pvt. Ltd., Noida, U.P.

i. Final District Survey Report (DSR) of Sand, Gumla.

The Final DSR was submitted by District Magistrate-cum- Deputy Commissioner, Gumla. He was represented by Assistant Director, Geology, Ranchi Sri Rakesh Kumar Panna at the SEAC meeting on 21.03.2023.

During the meeting the consultant M/s Atmos Sustainable Solution Pvt. Ltd., Noida in the presence of Assistant Director, Geology, Ranchi presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.

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2. The final DSR consists of the complete potential area and is demarcated as Potential Resource Area (PRA) / Sand Leases / Ghats as per EMGSM guideline 2020.
3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 07.01.2023. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities / active channels of the river.
7. Khata & Khasra numbers of the lease area certified by the concerned Circle Officer (CO) are incorporated in the final DSR.
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12. Bulk density and specific gravity of sand sample data has been provided by NABL accredited laboratory.

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During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District Gumla is recommended to SEIAA for approval.

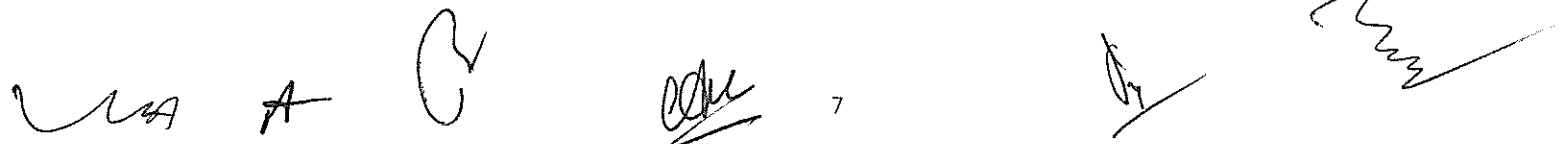
F. District Magistrate–cum- Deputy Commissioner, East Singhbhum or through authorized representative and M/s Atmos Sustainable Solution Pvt. Ltd., Noida, U.P.

i. Final District Survey Report (DSR) of Sand, East Singhbhum.

The Final DSR was submitted by District Magistrate–cum- Deputy Commissioner, East Singhbhum. He was represented by DMO, East Singhbhum Sri Sanjay Kumar Sharma and Assistant Director, Geology, East Singhbhum Shri Karun Kumar Chandan at the SEAC meeting on 21.03.2023.

During the meeting the consultant M/s Atmos Sustainable Solution Pvt. Ltd., Noida in the presence of DMO, East Singhbhum presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.

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3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 26.12.2022. As per the Sub Divisional Committee no comments / observations were obtained.
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During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District East Singhbhum is recommended to SEIAA for approval.

G. District Magistrate –cum- Deputy Commissioner, Dhanbad or through authorized representative and M/s Atmos Sustainable Solution Pvt. Ltd., Noida, U.P.

i. Final District Survey Report (DSR) of Sand, Dhanbad.

The Final DSR was submitted by District Magistrate–cum- Deputy Commissioner, Dhanbad. He was represented by DMO, Dhanbad Shri Mihir Salkar and Assistant Director, Geology, Bokaro & Dhanbad Mrs. Reena Kumari Oreyia at the SEAC meeting on 21.03.2023.

During the meeting the consultant M/s Atmos Sustainable Solution Pvt. Ltd., Noida in the presence of DMO, Dhanbad presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.

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3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 30.12.2022. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities / active channels of the river.
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During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District Dhanbad is recommended to SEIAA for approval.

H. District Magistrate –cum- Deputy Commissioner, West Singhbhum or through authorized representative and M/s Atmos Sustainable Solution Pvt. Ltd., Noida, U.P.

i. Final District Survey Report (DSR) of Sand, West Singhbhum.

The Final DSR was submitted by District Magistrate–cum- Deputy Commissioner, West Singhbhum. He was represented by DMO, West Singhbhum Shri Nishant Abhishek and Assistant Director, Geology, Chaibasa Shri Amendra Kumar Singh at the SEAC meeting on 21.03.2023.

During the meeting the consultant M/s Atmos Sustainable Solution Pvt. Ltd., Noida in the presence of DMO, West Singhbhum presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.

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3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 16.12.2022. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities / active channels of the river.
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During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District West Singhbhum is recommended to SEIAA for approval.



i. District Magistrate –cum- Deputy Commissioner, Saraikela-Kharsawan or through authorized representative and M/s Atmos Sustainable Solution Pvt. Ltd., Noida, U.P.

i. Final District Survey Report (DSR) of Sand, Saraikela-Kharsawan.

The Final DSR was submitted by District Magistrate–cum- Deputy Commissioner, Saraikela-Kharsawan. He was represented by DMO, West Singhbhum Shri Nishant Abhishek and Assistant Director, Geology, Saraikela Shri Vipin Shushant Gudiya at the SEAC meeting on 21.03.2023.

During the meeting the consultant M/s Atmos Sustainable Solution Pvt. Ltd., Noida in the presence of DMO, West Singhbhum presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.

1. The final DSR submitted is duly signed by all members of the Sub Divisional Committee and the Consultant. All the pages of the DSR are signed by the authorized officer of the Sub Divisional Committee.
2. The final DSR consists of the complete potential area and is demarcated as Potential Resource Area (PRA) / Sand Leases / Ghats as per EMGSM guideline 2020.
3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 19.01.2023. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities / active channels of the river.
7. Khata & Khasra numbers of the lease area certified by the concerned Circle Officer (CO) are incorporated in the final DSR.
8. The distance of PRA / Sand Leases / Ghats from the Forest / Wildlife Protected area / Birds Sanctuary/ Wildlife Sanctuary / National Park / Eco Sensitive Zone has been verified and certified by the concerned DFOs of the respective Territorial and Wildlife division.
9. A report detailing the presence of aquatic animal in the river in proximity of the proposed PRA / Sand Leases / Ghats is included in the final DSR.
10. The proposed PRA / Sand Leases / Ghats meet the siting criteria of State Pollution Control Board / SEIAA.
11. High resolution color satellite images of the proposed potential sand mining areas are included in final DSR.
12. Bulk density and specific gravity of sand sample data has been provided by NABL accredited laboratory.

13. Cluster and contiguous cluster formation as per EMGSM guidelines, 2020 has been included in the Annexures.
14. Mining is restricted to 3/4th of the river width and 60% of the mineable reserve.
15. Transportation routes for movement of sand are provided in the final DSR.
16. All the annexures as per EMGSM guidelines, 2020 are included in the final DSR.
17. An undertaking with reference to Point no. 9.3 of the EMGSM guidelines, 2020 regarding monitoring of mining near inter-district or inter-state boundary has been provided.
18. The representative of the Sub Divisional Committee along with the Consultants have affirmed that all the guidelines of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors have been followed in preparation of the final DSR.

During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District Saraikela-Kharsawan is recommended to SEIAA for approval.

J. District Magistrate –cum- Deputy Commissioner, Simdega or through authorized representative and M/s Atmos Sustainable Solution Pvt. Ltd., Noida, U.P.

i. Final District Survey Report (DSR) of Sand, Simdega.

The Final DSR was submitted by District Magistrate–cum- Deputy Commissioner, Simdega. He was represented by DMO, Simdega Shri Ajeet Kumar and Assistant Director, Geology, Gumla Shri Rakesh Kumar Panna at the SEAC meeting on 21.03.2023.

During the meeting the consultant M/s Atmos Sustainable Solution Pvt. Ltd., Noida in the presence of DMO, Simdega presented the DSR before the Committee. The DSR was assessed considering the following points.

1. The final DSR submitted is duly signed by all members of the Sub Divisional Committee and the Consultant. All the pages of the DSR are signed by the authorized officer of the Sub Divisional Committee.
2. The final DSR consists of the complete potential area and is demarcated as Potential Resource Area (PRA) / Sand Leases / Ghats as per EMGSM guideline 2020.
3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 06.01.2023. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.

6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities / active channels of the river.
7. Khata & Khasra numbers of the lease area certified by the concerned Circle Officer (CO) are incorporated in the final DSR.
8. The distance of PRA / Sand Leases / Ghats from the Forest / Wildlife Protected area / Birds Sanctuary/ Wildlife Sanctuary / National Park / Eco Sensitive Zone has been verified and certified by the concerned DFOs of the respective Territorial and Wildlife division.
9. A report detailing the presence of aquatic animal in the river in proximity of the proposed PRA / Sand Leases / Ghats is included in the final DSR.
10. The proposed PRA / Sand Leases / Ghats meet the siting criteria of State Pollution Control Board / SEIAA.
11. High resolution color satellite images of the proposed potential sand mining areas are included in final DSR.
12. Bulk density and specific gravity of sand sample data has been provided by NABL accredited laboratory.
13. Cluster and contiguous cluster formation as per EMGSM guidelines, 2020 has been included in the Annexures.
14. Mining is restricted to 3/4th of the river width and 60% of the mineable reserve.
15. Transportation routes for movement of sand are provided in the final DSR.
16. All the annexures as per EMGSM guidelines, 2020 are included in the final DSR.
17. An undertaking with reference to Point no. 9.3 of the EMGSM guidelines, 2020 regarding monitoring of mining near inter-district or inter-state boundary has been provided.
18. The representative of the Sub Divisional Committee along with the Consultants have affirmed that all the guidelines of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors have been followed in preparation of the final DSR.

During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District Simdega is recommended to SEIAA for approval.

K. Deputy Commissioner –cum- District Magistrate, Ramgarh or through authorized representative and M/s Rian Enviro Pvt. Ltd., Patna, Bihar.

i. Final District Survey Report (DSR) of Sand, Ramgarh.

The Final DSR was submitted by Deputy Commissioner –cum- District Magistrate, Ramgarh. He was represented by DMO, Ramgarh Shri Nitesh Gupta and Assistant Director, Geology, Hazaribagh Shri Abbu Hussain at the SEAC meeting on 21.03.2023.

During the meeting the consultant M/s Rian Enviro Pvt. Ltd., Patna in the presence of DMO, Ramgarh presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.

1. The final DSR submitted is duly signed by all members of the Sub Divisional Committee and the Consultant. All the pages of the DSR are signed by the authorized officer of the Sub Divisional Committee.
2. The final DSR consists of the complete potential area and is demarcated as Potential Resource Area (PRA) / Sand Leases / Ghats as per EMGSM guideline 2020.
3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 11.11.2022. As per the Sub Divisional Committee 01 comments / observations were received, the response to which has been addressed in the DSR report.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities /active channels of the river.
7. Khata & Khasra numbers of the lease area certified by the concerned Circle Officer (CO) are incorporated in the final DSR.
8. The distance of PRA / Sand Leases / Ghats from the Forest / Wildlife Protected area / Birds Sanctuary/ Wildlife Sanctuary / National Park / Eco Sensitive Zone has been verified and certified by the concerned DFOs of the respective Territorial and Wildlife division.
9. A report detailing the presence of aquatic animal in the river in proximity of the proposed PRA / Sand Leases / Ghats is included in the final DSR.
10. The proposed PRA / Sand Leases / Ghats meet the siting criteria of State Pollution Control Board / SEIAA.
11. High resolution color satellite images of the proposed potential sand mining areas are included in final DSR.
12. Bulk density and specific gravity of sand sample data has been provided by NABL accredited laboratory.
13. Cluster and contiguous cluster formation as per EMGSM guidelines, 2020 has been included in the Annexures.
14. Mining is restricted to 3/4th of the river width and 60% of the mineable reserve.
15. Transportation routes for movement of sand are provided in the final DSR.
16. All the annexures as per EMGSM guidelines, 2020 are included in the final DSR.
17. An undertaking with reference to Point no. 9.3 of the EMGSM guidelines, 2020 regarding monitoring of mining near inter-district or inter-state boundary has been provided.

18. The representative of the Sub Divisional Committee along with the Consultants have affirmed that all the guidelines of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors have been followed in preparation of the final DSR.

During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District Ramgarh is recommended to SEIAA for approval.

L. Deputy Commissioner –cum- District Magistrate, Lohardaga or through authorized representative and M/s Crystal Consultants, Ranchi, Jharkhand.

i. Final District Survey Report (DSR) of Sand, Lohardaga.

The Final DSR was submitted by Deputy Commissioner –cum- District Magistrate, Lohardaga. He was represented by Assistant Director, Geology, Lohardaga Mrs. Jaya Kerketta at the SEAC meeting on 21.03.2023.

During the meeting the consultant M/s Crystal Consultants, Ranchi in the presence of Assistant Director, Geology, Lohardaga presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.

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2. The final DSR consists of the complete potential area and is demarcated as Potential Resource Area (PRA) / Sand Leases / Ghats as per EMGSM guideline 2020.
3. The replenishment study of pre & post monsoon period is included in final DSR.
4. The final DSR has been placed in the public domain for 01 (One) month from the 27.01.2023. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
6. The PRA / Sand Leases / Ghats have not been proposed on the confluence / meanders / concavities / active channels of the river.

7. Khata & Khasra numbers of the lease area certified by the concerned Circle Officer (CO) are incorporated in the final DSR.
8. The distance of PRA / Sand Leases / Ghats from the Forest / Wildlife Protected area / Birds Sanctuary/ Wildlife Sanctuary / National Park / Eco Sensitive Zone has been verified and certified by the concerned DFOs of the respective Territorial and Wildlife division.
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18. The representative of the Sub Divisional Committee along with the Consultants have affirmed that all the guidelines of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors have been followed in preparation of the final DSR.

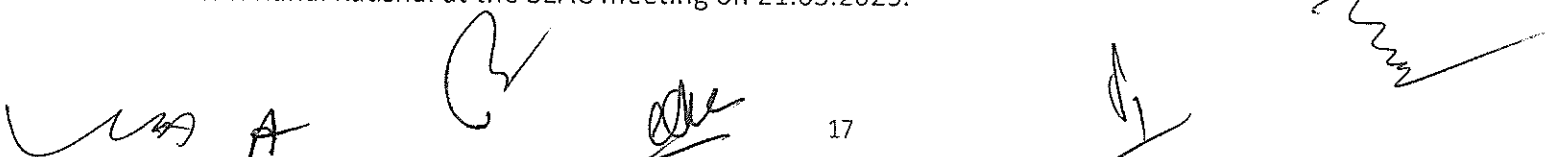
During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District Lohardaga is recommended to SEIAA for approval.

M. Deputy Commissioner –cum- District Magistrate, Giridih or through authorized representative and M/s Crystal Consultants, Ranchi, Jharkhand.

i. Final District Survey Report (DSR) of Sand, Giridih.

The Final DSR was submitted by Deputy Commissioner –cum- District Magistrate, Giridih. He was represented by DMO, Giridih Shri Satish Kumar Nayak and Assistant Director, Geology, Koderma Shri Kunal Kaushal at the SEAC meeting on 21.03.2023.



During the meeting the consultant M/s Crystal Consultants, Ranchi in the presence of DMO, Giridih presented the DSR before the Committee. The DSR was appraised considering the following aspects alongwith other conditions of EMGSM guidelines, 2020 / Hon'ble Apex Court in Civil Appeal no. 3661-3662/2020, Pawan Kumar vs State of Bihar & ors, Hon'ble NGT in O.A. no. 54/2022/EZ, Bhumi Adhigrahan Visthapan Avam Punarvas Kisan Samiti vs State of Jharkhand & ors.


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4. The final DSR has been placed in the public domain for 01 (One) month from the 10.11.2022. As per the Sub Divisional Committee no comments / observations were obtained.
5. Demand and supply of the river bed material has been provided. The future demand for next 05 years is included in the final DSR.
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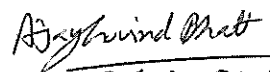
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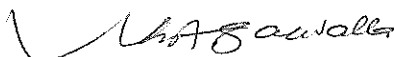
During appraisal, a few shortcomings were observed which were rectified and included in the final DSR.

The final DSR (sand) of District Giridih is recommended to SEIAA for approval.

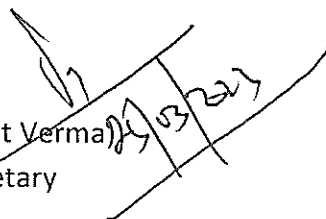
The meeting concluded with thanks to all present.



(Dr. Raju Kumar)
Member


25.03.2023
(Dr. Ajay Govind Bhatt)
Member


(Niranjan Lal Agarwalla)
Member


25/3/23
(Dr. Kirti Avishek)
Member


(Srikant Verma)
Secretary


(Ashok Kumar Singh)
Chairman 25/03/2023

MINUTES OF THE 102ND MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 21ST, 22ND, 23RD, 24TH and 25TH MARCH, 2023.

The 102nd meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 21st, 22nd, 23rd, 24th and 25th March, 2023 under the Chairmanship of Shri Ashok Kumar Singh, IFS (Retd.) in the Conference Room at SEAC, Ranchi.

The following members were present :

1. Shri Ashok Kumar Singh, IFS (Retd.) - Chairman
2. Dr. Kirti Avishek - Member
3. Shri Niranjana Lal Agarwalla - Member
4. Dr. Raju Kumar - Member
5. Dr. Ajay Govind Bhatt - Member
6. Shri Srikant Verma, IFS - Secretary

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 20th, 21st, 22nd, 23rd and 24th February, 2023. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite information / clarifications in the earlier meeting of SEAC, were also considered for appraisal. The Project Proponents have been asked to make technical presentation for the appraisal of their projects before the committee.

The following observations / recommendations were made during the presentation (Project -wise), as under :-

Day 2 : March 22nd, 2023 [Wednesday]

- A. Corrigendum EC letter for Proposed Residential Project "K.B. Tower" of M/s Bhusan Promoters and Developers Private Limited, Village : Hehal, Mauza : Hehal, Thana : Sukhdev Nagar, Distt. : Ranchi, Jharkhand.**

(Proposal no. : SIA/JH/MIS/ 298739 /2023).

The PA's vide online application no. SIA/JH/MIS/ 298739 /2023 has requested for necessary correction in Environmental Clearance issued vide letter no. EC/SEIAA/2022-23/2654/2022/309, dated 13.12.2022 with regard to correction in Khata number, the revised details is being given below :

Project Category: 8 (a) Category B2 – Application for Environment Clearance

EC Application for: Proposed Residential project: Total built-up area is 48386.69 sq m.

Project and Location details :

Parameters	Description
Plot Area	10006.65 sq. m. (approx. 2.47 acre)
Project Cost	INR 76 Crores

[Handwritten signatures and initials: A, B, C, D, E, F, G]

Built-up Area (@ 2.87 F.A.R)	48386.69 sq. m.
Green Area (@ 40.98 % of plot area)	4054.99 sq m
Population	1139
Water Requirement	122KLD
Fresh Water Requirement	73 KLD
Wastewater Generation	89 KLD
STP Capacity	100 KLD
Total Municipal Waste	533 kg/day
Power Requirement	2000 KVA (Jharkhand State Electricity board)
DG Sets	3 no. of DG set of Total 740 KVA (1*380+2*180)
RWH Pits	05 no.
Parking Area	591 ECS (2-wheelers:295 , Car parking: 268, Visitor's Car Parking : 25, Other vehicles : 3)
Connecting road	Itki Road (0.13 km,N) Ranchi Road (0.55 km,N) SH 2 (2.72 km , E)
National Highway	NH 20 (5.92 km, E)
Nearest Railway Station	Ranchi Junction Railway Station (5.75 km, SE)
Airport	Birsa Munda Airport (7.66 km, SE)
Nearest Hospitals	Vivekananda Hospital (1.91 km, NE)
Nearest Water Bodies	Dhurwa Dam (9.29 km, SW) Ranchi Lake (2.91 km, SE) Kanke Dam (2.45 km, NE) Subernrekha River (5.72 km, SE) Jumar River (8.51 km, N) Chota Jharna (5.17 km, N)

CO-ORDINATES :

S.No	Latitude	Longitude
1	23°22'41.76"N	85°17'19.27"E
2	23°22'45.50"N	85°17'20.51"E
3	23°22'46.08"N	85°17'20.64"E
4	23°22'45.39"N	85°17'20.70"E
5	23°22'40.98"N	85°17'20.98"E

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6	23°22'47.67"N	85°17'21.22"E
7	23°22'41.23"N	85°17'21.73"E
8	23°22'46.36"N	85°17'21.81"E
9	23°22'47.74"N	85°17'21.95"E
10	23°22'45.42"N	85°17'23.10"E
11	23°22'44.79"N	85°17'23.13"E

Area Summary :

S. No.	Description	Area (Sq M)
A.	Total plot area	10006.65
B.	Deduction for Balance Plot Area(from Gross Plot Area)	112.73
C.	Net Plot Area	9893.92
D.	Proposed Ground Coverage (@26.22% of plot area)	2594.31
E.	Permissible FAR/ FSI (3.00)	30019.95
F.	Proposed FAR (@ 2.87)	28781.3
G.	Non FAR Area (Strain case, Lift, Balcony, Ramp, Accessory Use, Basement Parking)	19605.39
H.	Built-up Area (F+G)	48386.69
I.	Green Area (@40.98% of net plot area)	4054.99
J.	Drive way & Open Area/paved area	839.43
K.	Height (m)	43.75
L.	No of Dwelling Units	220

Block Wise Dwelling Units Details :

S. No.	Building Blocks (Residential Building)	Number of Floors	DU'S
1.	Residential Block A (B1+B2+GF+13)	14	220
	Total		220

LAND DETAILS :

Khata No.	Plot No.
03	398
128	268
180	265
187	267

STATUTORY CLEARANCES :

1	DFO Forest Distance	DFO, Ranchi Forest division vide letter no. 3662, dated 29.08.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
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2	DFO wildlife	:	DFO, Wildlife Ranchi vide letter no. 735, dated 24.08.2022 certified that the proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
3	CO certificate	:	The CO, Hehal, Ranchi vide letter no. 740 (ii), dated 10.09.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani & Register II.
4	AAI NOC	:	Airport authority of India issued NOC vide NOC ID RANC/EAST /B/073118/323962, dated 21.08.2018.
5	Fire Department	:	A fire advisory has been issued by Fire Department, Jharkhad, Ranchi vide vide letter no. 1237/Tech./2020, dated 09.06.2020.
6	Building Plan	:	Conceptual Plan submitted.

Water and waste water Requirement Details

Category	Population/ Area (sq m)/Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
Domestic					
Residents	990	100	99	69	30
Staff	50	45	3	2.1	0.9
Visitors	99	15	2	1.4	0.6
Total Domestic Water Demand			104	73	31
Landscape	4054.99 sqm	3 ltr/sqm	12	-	12
Fire Fighting			1	-	1
DG cooling	740 KVA(1*380+ 2*180)	0.9 l/kVA/hr	5	-	5
Total		-	122	73	49

Category	Total Quantity (KLD)
Domestic water Req.	73
Flushing water Req.	31
Sewage generation (@80% of the Domestic + 100% flushing water requirement)	89
Capacity of STP	100
Recovered water from STP (90% of Waste water)	80
1. Flushing	31
2. Landscaping	12
3. Fire Fighting	1
4. DG cooling	

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5. Road washing/sewer	5
	31

Solid Waste Requirement

S. No	Description	Occupancy/ Area	kg/capita/ day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non- Recyclable (kg/day)
1.	Residents	990	0.5	495	396	99
2.	Staff	50	0.25	12.5	10	2.5
3.	Visitors	99	0.15	14.85	11.88	2.97
4.	Landscape waste	1.002 acres	1 kg/acres	1	1	-
5.	STP sludge	150 KLD	--	10	8	2
Total Waste Generated				533	427	106

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Total green area provided at the site is 4054.99 sq m (40.98 % of the net plot area). Out of which Green belt area is 1544.27 sq.m i.e. 16% of the net plot area and landscape area is 2510.72 sq.m i.e. 25.37% of the net plot area which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.







Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.

- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Laborers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 100 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG/HVAC cooling, flushing, fire fighting.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 73 KLD of fresh water is required during operational phase of the project.

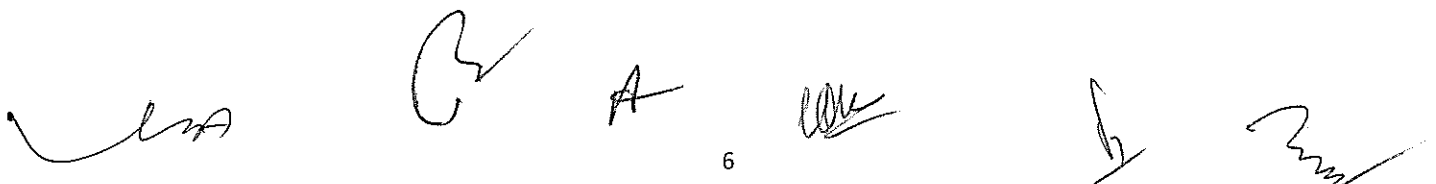
Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

- Energy will be conserved via solar power & LED of at least 5 % of the total power requirement.

The SEAC considered the same and recommends for issuance of corrigendum EC with corrected details as stated above. Rest other terms & conditions mentioned in the previous EC letter no. EC/SEIAA/2022-23/2654/2022/309, dated 13.12.2022 shall remain the same.



B. Consideration of Proposals

1. Residential Group Housing Project “ATC Ultima” of M/s Rukmani Property Project Pvt. Ltd., Village :Hurlung, Jamshedpur, Distt. : East Singhbhum, Jharkhand.

(Proposal No. : SIA/JH/INFRA2/ 408128 /2022)

Name of the consultant : Oceao-Enviro Management Solutions (India) Pvt. Ltd., Ghaziabad, U.P.

This is a new project which has been taken for appraisal on 22.03.2023.

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1, 50,000 m² and development area is less than 50 ha.

The proposed project is construction of Group housing project “ATC Ultima” by M/s Rukmani Property Projects Private Limited. Located Village-Hurlung, PS- Birsanagar, Town-Jamshedpur, Jharkhand – 83101. The total plot area of the project is **7850.18 m²** or 1.939 acres. The Built-up area for project is **64375.23 Sq. m.**

Background :

- The proposed project is construction of Group housing project “ATC Ultima” by M/s Rukmani Property Projects Private Limited. Located Village-Hurlung, PS- Birsanagar, Town-Jamshedpur, Jharkhand – 83101.
- The total plot area of the project is **7850.18 m²** or 1.939 acres. The Built-up area for project is **64375.23 Sq. m.** (including FAR + NON FAR + Services)
- The proposed project is consists of single podium with 2 towers for which application has been submitted for Environment Clearance.
- Approved building drawing for the project is yet to be obtained.
- That, Project Proponent had not started any construction activities in the project part which comes under preview of the environmental clearance.
- Total estimated cost of the project is approx.. Rs. 90 Crores.

Salient features of the project:

S.No.	Area Details	AREA (sq.mt.)
1	Total plot area	7850.18
2	Net Plot Area	7850.18
3	Permissible Coverage Area (@40% of Net Plot Area)	3140.072
4	Proposed Coverage Area (@35 % of Net Plot Area)	2747.563
5	Total Proposed Coverage Area (@35 % of Net Plot Area)	2747.563
6	Total Proposed FAR Area	37947.3
7	Basement + Services	22427.99

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8	Miscellaneous Area	4000
9	Built-up area	64375.23
10	Green Area (@20.001 % of Plot Area)	1570.036
11	No. of Rain Water Harvesting pit	03 Pits
12	Height of the building	125 m

LAND DETAILS :

Khata No.	Plot No.
226	157, 158, 159, 132, 237, 229, 230 & 380
230	236
227	381 & 382
228	226

Floor Wise Area Details:

S. No.	Floor Name	Building Name-A (Ultima)	
		Proposed Built-up Area (sq.mt.)	Proposed FAR Area (sq.mt.)
1	Ground Floor	4318.2	2404.59
2	First Floor	5354.98	2219.63
3	Second Floor	5529.79	0
4	Third Floor	5529.79	0
5	Fourth Floor	1105.85	1037.48
6	Fifth Floor	1041.56	872.64
7	Sixth Floor	1041.52	872.56
8	Seventh Floor	1041.57	872.67
9	Eighth Floor	1041.52	872.56
10	Ninth Floor	1041.52	872.56
11	Tenth Floor	1041.52	872.56
12	Eleventh Floor	1041.52	872.56
13	Twelfth Floor	1041.57	872.67
14	Thirteenth Floor	1041.52	872.56
15	Fourteenth Floor	1041.52	872.56
16	Fifteenth Floor	1041.52	872.56

17	Sixteenth Floor	1041.52	872.56
18	Seventeenth Floor	1041.57	872.67
19	Eighteenth Floor	1041.52	872.56
20	Nineteenth Floor	1041.52	872.56
21	Twentieth Floor	1041.52	872.56
22	Twenty first Floor	1041.52	872.56
23	Twenty second Floor	1041.57	872.67
24	Twenty third Floor	1041.52	872.56
25	Twenty Four Floor	1041.52	872.56
26	Twenty five floor	1041.52	872.56
27	Twenty six floor	1041.52	872.56
28	Twenty Seven Floor	1041.57	872.67
29	Twenty Eighth Floor	1041.52	872.56
30	Twenty Ninth Floor	1041.51	872.59
31	Thirtieth Floor	1041.52	872.56
32	Thirty first Floor	1041.52	872.56
33	Thirty-second Floor	1041.57	872.67
34	Thirty third Floor	1041.52	872.56
35	Thirty Fourth Floor	1041.52	872.56
36	Thirty Fifth Floor	1041.52	872.56
37	Thirty Sixth Floor	1041.52	872.56
38	Thirty Seventh Floor	1041.57	872.67
39	Thirty Eighth Floor	1041.52	872.56
40	Thirty Ninth Floor	1041.52	872.56
41	Fortieth Floor	1041.52	872.56
42	Forty-first Floor	1041.52	872.56
43	Terrace Floor	0.00	0.00
	Total	60375.23	37947.30

Latitude & Longitude:

Pillars	Latitude	Longitude
a	22 47 43.11"N	86 16 01.55"E

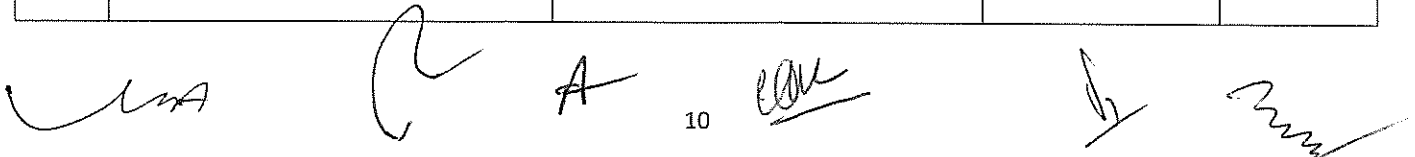
b	22 47 43.10"N	86 16 02.20"E
c	22 47 43.65"N	86 16 02.41"E
d	22 47 43.61"N	86 16 03.62"E
e	22 47 45.17"N	86 16 04.29"E
f	22 47 46.37"N	86 16 04.63"E
g	22 47 46.18"N	86 16 05.53"E
h	22 47 46.04"N	86 16 06.34"E
i	22 47 44.80"N	86 16 06.06"E
j	22 47 42.77"N	86 16 05.49"E
k	22 47 40.88"N	86 16 05.16"E
l	22 47 41.31"N	86 16 02.14"E
m	22 47 42.99"N	86 16 01.41"E

Population Break up:

S. No.	Particulars	No. of Flats	PPU/No. of person/m2	Total
1	Residents	302	@6 Person Per Unit	1812
2	Staff	-	@10% of Residential	181
3	Visitors	-	@ 10% of Residential	181
	Total			2174

Site Surroundings:

S.No	Particulates	Name of Places	Distance (Km)	Direction
1.	Nearest Airport	Sonari Airport	9.50	WNW
2.	Nearest Railway Station	Tata Nagar Railway Station	7.39	SW
3.	Nearest Bus Stand	Jamshedpur Mango Bus Stand	6.24	NW
4.	Nearest State Highway/ Any other road	SH-6	7.29	SW
5.	Nearest National Highway	NH- 18	3.40	NE
6.	Nearest School/College	H S Public School	1.77	NW


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		Gulmohar Primary School	2.39	SW
7.	Nearest Temple/Masjid	Hari Mandir Das Para	1.45	SW
		Shiv Mandir	1.10	SW
		Vaishnow Mandir	1.37	SW
		Masjid E Raza	3.06	S
8.	Nearest Hospital	Mercy Hospital	2.04	W
		Ardeshir Dalal Memorial Hospital	2.03	NW
9.	Nearest Police Station	Sidhgora Police Station	3.22	W
		Golmuri Police Station	4.29	WSW
10.	Nearest Fire Station	CRM Bara Fire Station	3.30	NW
		Fire Station	5.19	W
11.	Commissioner Office	District Labour Commissioner Office	4.81	W
12.	Gram Panchayat	Godabandha Gram Panchayat	2.70	SSE
13.	Nearest Pond	Tank	3.14	SW
14.	Nearest River/Nallah/ Canal	Subarnarekha River	0.70	N
15.	Wild Life Sanctuary	Jamshed Ji Tata Wildlife Sanctuary, Jamshedpur	11.44	NNW
16.	Zoological Park	Tata Steel Zoological Park	7.63	NW
17.	Nearest Defence Installation	Civil Defence Office	8.45	W

Water Requirement:

The water requirement will be met by Municipal Supply. The total water requirement for operational phase is approx. 197 KLD. Fresh water requirement is approx. 127 KLD.

Construction phase :

The total water requirement during construction phase is approx.. 20 KL/day for 240 days / year considering construction for 03 years. For domestic purpose for workers @ 45 lpcd for 50 workers = 2.25 KLD.

Calculations for Daily Water Demand:

S. No.	Particulars	Occupancy/ Area/ No's	Fresh Water Demand		Treated Water Demand		Total
			LPCD	Quantity	LPCD	Quantity	

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1	Residents	1812	67	121.404	33	59.796	181.2
2	Staff	181	25	4.525	20	3.62	8.145
3	Visitors	181	5	0.905	10	1.81	2.715
4	Landscape	1570	NIL	NIL	3l/sqm	4.710108	4.710108
Total Water Requirement				126.83 ~ 127		69.93611 ~ 70	196.77011 ~ 197

Summary of Water and Waste water:

S. No.	Particulars	In KLD
1	Total Water Requirement	197
2	Water Requirement met by Fresh Water	127
3	Water Requirement met by Treated Water	92
4	Water requirement for flushing	86.97~87
5	Wastewater Generated (80% of Fresh + 100% Flushing)	221
6	STP Capacity (20% higher than the wastewater generated)	265

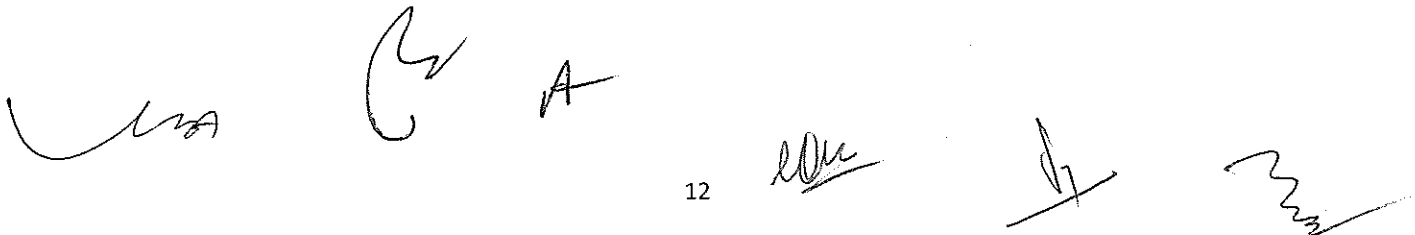
Power Requirement:

There is requirement of 1500 kVA power supply. 2 DG sets of capacity of 500 kVA are proposed to be used as backup power supply. The DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.

Calculation of Solid Waste generation:

S. No.	Category	Kg per capita per day	Waste generated (kg/day)
1	Residents	1812 @ 0.5 kg/day	906
2	Staff	181 @ 0.25 kg / day	45.25
3	Visitor	181 @ 0.15 kg /day	27.15
4	Landscape waste (1570.036 m ²)	0.388 @ 0.2 kg/acres	0.077
Total Solid Waste Generated			978.48 kg/day

STATUTORY CLEARANCES :



1	DFO Forest Distance		DFO, Jamshedpur Forest division vide letter no. 2447, dated 12.10.2022 certified that the distance of notified forest is 242 m from proposed project site. This is a building project hence distance criteria from RF/PF is not applicable.
2	DFO wildlife	:	DFO, Dalma Elephant Project vide letter no. 85, dated 07.01.2023 certified that the proposed project site is outside Eco Sensitive Zone Dalma Wildlife Sanctuary.
3	CO certificate	:	The CO, Jamshedpur, East Singhbhum vide letter no. 2208, dated 14.11.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyar & Register II.
4	AAI NOC	:	Airport authority of India issued NOC vide NOC ID JAMS/EAST /B/092722/700233, dated 21.10.2022.
5	Fire Department	:	PAs have submitted an Affidavit stating that the approval of Fire Advisory will be submitted to SEIAA / SEAC, Jharkhand on receipt of the same.
6	Building Plan	:	Conceptual Plan submitted.

During the presentation the following documents were sought:

- I. Undertaking affirming that :
 - a. In case there is any mismatch between the approved building plan and the submitted conceptual plan, amendment in EC will be obtained accordingly.
 - b. The Municipal water supply will be used after the due permission of Competent Authority. No Ground water will be used without permission from CGWA.
 - c. MSW will be treated through JNAC as per SWM Rules, 2016.

The Project Authorities have submitted the above mentioned undertaking.

Based on the presentation made and information provided, the Committee decided that the proposal for Residential Group Housing Project "ATC Ultima" of M/s Rukmani Property Project Pvt. Ltd., Village : Hurlung, Jamshedpur, Distt. : East Singhbhum, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.

- III. PAs to offset (upto20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.
- XI. Sufficient number of EV fast charging points to be installed.
- XII. MSW Collection centre should be located in isolated and preferably unmanned area. Movement of the vehicle carrying waste should be under tarpaulin covered condition only. Route of vehicle should be such that it avoids residential areas as far as practical.
- XIII. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr management.
- XIV. A cycling tract to be provided in residential complex so as to save on fuel and make in campus movement environment friendly.

2. Thambh Stone Deposit of M/s Anand Mines & Minerals, Village :Thambh, Thana : Chandwara, Distt. : Koderma, Jharkhand (0.57 Ha).

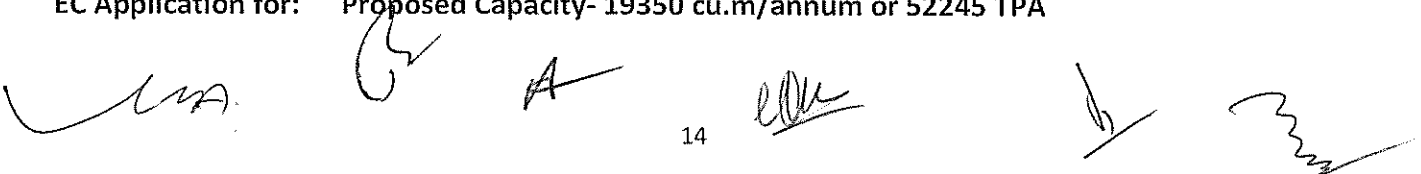
(Proposal No : SIA/JH/MIN/ 422438/2023).

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 22.03.2023.

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 19350 cu.m/annum or 52245 TPA

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Project and Location Details :

Sl	Parameter	Details	
1	Project Name	: Thambh Stone Deposit	
2	Lessee:	: M/s Anand Mines & Minerals Prop. -Sri Anand Rajesh S/o- Sri Captain Anand, At+P.O. -Jhumritilaiya, P.S.-Tilaiya, District-Koderma, Jharkhand	
3	Lease Address	: Village – Thambh, Thana-Chandwara, District – Koderma, State :- Jharkhand.	
4	Lease Area	: 0.57 ha	Acre- 1.4025 Acre
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 20 Lakhs	
7	EMP Budget	: Capital: 3.48 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.40 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 193500 cum	Tonnes: 522450
11	Mine Life	: 10 years	
12	Man power	: 16	
13	Water Requirement	: 5.61 KLD (Drinking: 0.16 KLD, Dust Suppression: 2.60 KLD, Plantation: 2.85 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: 100 KVA	
16	Crusher	: No	
17	Nearest Water Body	: Margoja Nadi, Approx. 2.5 km towards WNW direction of mine site. Tilaiya Reservoir, Approx. 3.50 km towards SSW direction of mine site.	
18	Nearest Habitation	: Chandwara, 6.5 km	
19	Nearest Rail Station	: Urwan Railway station, approx. 7.50 km towards SE direction.	
20	Nearest Air Port	: Gaya Airport, approx. 61.0 km towards NW direction.	
21	Nearest Forest	: Protected Forest Approx. 0.4 km towards NNW direction of mine site.	
22	Road & Highways	: NH-20, Approx. 7.0 km. in EAST direction. NH-19, Approx. 9.0 km in SSW direction.	

CO-ORDINATES

1	Latitude	From 24°24'07.28"N	To 24°24'13.15"N
2	Longitude	From 85°24'53.48"E	To 85°24'56.99"E

LAND DETAILS :

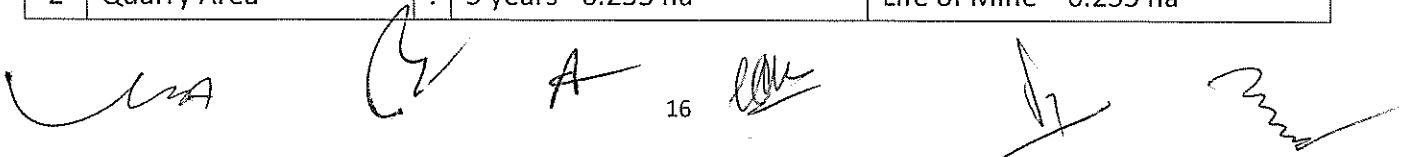
Khata No.	Plot No.
38	68 & 69
45	64 (P)
53	61
76	63 (P)
96	60 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (Lol) has been issued by DMO, Koderma vide memo no. 469/M, dated 04.03.2023.
2	CO	:	The CO, Chandwara vide letter no. : 661, dated 08.09.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Koderma vide memo no. 479/M, dated 06.03.2023 certified that 01other mining lease area (0.92 Acre) exists within 500 m radius from proposed project site and total area is 2.3225 Acre.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. : 1789, dated 10.09.2022 certified that the proposed project site is outside Eco Sensitive Zone of Koderma Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Koderma Forest Division vide letter no. : 863, dated 24.02.2023 certified that the distance of reserved / protected forest is 252 m from proposed project site.
6	DSR	:	The DC – cum – District Magistrate, Koderma vide letter no. 480/M, dated 06.03.2023 has informed that this project is part of District Survey Report (DSR) of Koderma district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Gram Sabha conducted on 28.08.2022.
8	Mine Plan Approval	:	DMO, Koderma vide letter no. 520, dated 13.03.2023.

Working Details

1	Mining Method	:	Opencast mechanized mining method
2	Quarry Area	:	5 years– 0.255 ha Life of Mine – 0.255 ha



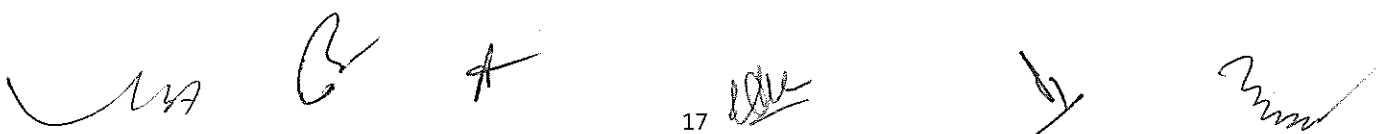
3	Waste Generation	:	5 years– 1495 cu.m
4	Stripping Ratio	:	0: 0.2
5	Working Days	:	300
6	Benches: size & No	:	3 m x 3 m
7	Elevation of Mine	:	402 AMSL to 403 AMSL
8	Ground Level Elevation	:	402 AMSL
9	Ultimate Working Depth	:	386 AMSL (8 mbgl)
10	Water Table	:	380 AMSL (15 mbgl)
11	Topography of Mine	:	Area represents a flat terrain
12	Explosive Requirement	:	Class – III (special gelatin 80% strength) & Class –VI explosive (detonator/electric detonator and safety length) shall be used.
13	Diesel/Fuel requirement	:	120 Lt/Day

Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 st	17800.00	48060.00	750.00	403 mRL – 399 mRL
2 nd	19000.00	51300.00	745.00	403 mRL – 399 mRL
3 rd	19200.00	51840.00	-	399 mRL – 396mRL
4 th	19350.00	52245.00	-	399 mRL – 396 mRL
5 th	19350.00	52245.00	-	396 mRL – 393 mRL
Total	94700.00	255690.00	1495.00	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.255	0.255 (Entire area shall be left as water reservoir for rain water harvesting).
Road	0.006		
Plantation	Nil	0.315	0.315
Total	0.006	0.57	0.57
Unused Area	0.564	0	0.000
Total applied area	0.57	0.57	0.57



ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.315 ha	900
2	Haul /Approach Road	:	0.525 km	525

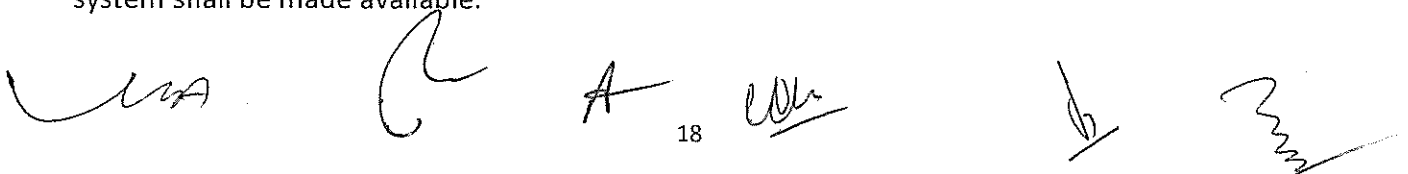
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Waste Generation will be 1495cum during the plan period. The generated waste shall be used in making and maintenance of haul road and village road, so there is no requirement of waste dumping Plan for this mining plan period.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 11m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

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Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Thambh Stone Deposit of M/s Anand Mines & Minerals, Village :Thambh, Thana : Chandwara, Distt. : Koderma, Jharkhand (0.57 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II.



3. Kowali Brick Clay Deposit of M/s Baba Bricks (Marka - Baba) (Prop. : Shri Bidyadhar Sahu),
Village : Kowali, Thana/Circle : Potka, Distt. : East Singhbhum, Jharkhand (1.39 Ha).

(Proposal No : SIA/JH/MIN/422176/2023).

Name of the consultant : P & M Solution, Noida

This is a new project which has been taken for appraisal on 22.03.2023.

Project Category : B2 – Application for Environment Clearance

EC Application for : Proposed Capacity- 1627.00 cum/annum or 2928.6 MT/annum

Project and Location Details :

Sl	Parameter	Details
1	Project Name	: Kowali Brick Clay Deposit
2	Lessee:	: M/S Baba Bricks (Marka- Baba) (Prop - Shri Bidyadhar Sahu)
3	Lease Address	: Village + P.O.- Kowali, Thana – Potka, District- East Singhbhum, State- Jharkhand .
4	Lease Area	: 1.39 ha Acres-3.45 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 20 Lakhs
7	EMP Budget	: Capital: 2.3625 Lakhs Recurring: 2.82 Lakh / year
8	CSR / CER Budget	: NA
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 19806 Tonnes: 35650.8
11	Mine Life	: 5 years
12	Man power	: 26
13	Water Requirement	: 4.40 KLD(Drinking: 0.26 KLD, Dust Suppression: 0.70 KLD, Plantation: 3.45 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Dosimani Nadi, approx. 1.06 km, NE direction Ramgarh Nadi, approx. 4.33 Km, NW direction
18	Nearest Habitation	: Kowali, 0.60 km
19	Nearest Rail Station	: Haludpukur Railway Station at a distance of 10.68 km towards NNW direction
20	Nearest Air Port	: Birsa Munda Airport, Ranchi at a distance of 125 km in NW direction
21	Nearest Forest	: Asurghati Reserve Forest, Approx 4.58 km towards SE direction. Jhapan Protected Forest, Approx 3.10 km towards SW direction.
22	Road & Highways	: Bahalda – Kuali road, approx, 0.70 km towards East direction

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CO-ORDINATES

1	Latitude	From 22°57'56.55"N	To 22°57'59.80"N
2	Longitude	From 86°17'19.85"E	To 86°17'25.56"E

LAND DETAILS :

Khata No.	Plot No.
439	543
553	555
128	553

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	Land agreement made.
2	CO	:	The CO, Potka, East Singhbhum vide letter no. : 825, dated 22.12.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide letter no. 97/Khanan, dated 03.02.2022 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. : 304, dated 26.02.2021 certified that the proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Jamshedpur Forest Division vide letter no. : 2984, dated 20.11.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The project is already mentioned in page no. 37 of District Survey Report (DSR) of District East Singhbhum.
7	Gram Sabha	:	BDO, Potka vide letter no. 1008, dated 01.10.2018 informed that Gram Sabha conducted on 19.09.2018.
8	Mine Plan Approval	:	Deputy Director, Geology, Daltonganj, Palamau vide memo no. 254/G, dated 05.10.2018.



Working Details

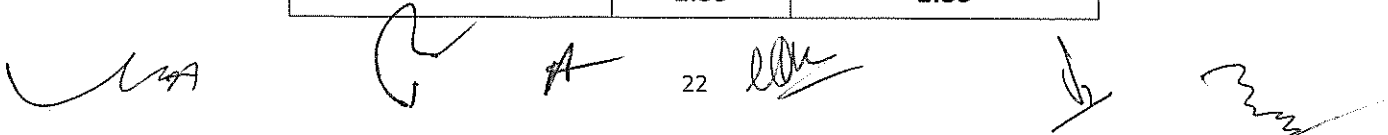
1	Mining Method	:	Opencast Manual Mining method
2	Quarry Area	:	5 years–1.39 Ha. Life of Mine – 5 years
3	Waste Generation	:	5 years–0.0 cu.m
4	Stripping Ratio	:	1: 0
5	Working Days	:	150
6	Benches: size & No	:	2m x 2.5m
7	Elevation of Mine	:	199 AMSL to 200.10 AMSL
8	Ground Level Elevation	:	199AMSL
9	Ultimate Working Depth	:	From top surface upto a depth of 2.00mbgl
10	Water Table	:	27 AMSL (20mbgl)
11	Topography of Mine	:	Area represents almost flat land
12	Explosive Requirement	:	--
13	Diesel/Fuel requirement	:	90 litre/day

Production Details

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.8
1 st	1627	600000	2928.6
2 nd	1536	568888	2764.8
3 rd	1620	600000	2916.0
4 th	1603	600000	2885.4
5 th	1416	524444	2548.8
Total	7802	2893332	14043.6

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)
Brick Kiln	Nil	0.15 inside the lease plots
Quarrying	Nil	1.12
Top Soil Storage	Nil	0.001
Green belt	Nil	0.11
Storage of casted brick	Nil	0.009
Unused Area	1.39	0.0
Total Area	1.39	1.39



ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.11 ha	275
2	Haul /Approach Road	:	25 m	25
3	Plantation in Anganwadi, School, etc	:	-	850

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

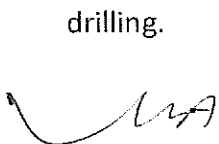
- It is proposed that the total wastes will be dumped at site & will be used in maintenance of road.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.



- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kowali Brick Clay Deposit of M/s Baba Bricks (Marka - Baba) (Prop. : Shri Bidyadhar Sahu), Village : Kowali, Thana/Circle : Potka, Distt. : East Singhbhum, Jharkhand (1.39 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II.








4. Proposed Residential & Commercial Project of M/s Vicint Homes Pvt. Ltd., Mouza :Bheetha, Tehsil : Hehal, Distt. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/INFRA2/ 419548 /2023)

Name of the consultant : P & M Solution, Noida, Uttar Pradesh.

This is a new project which has been taken for appraisal on 22.03.2023.

Project Category: 8(a) Category B2 – Application for Environment Clearance

EC Application for: Proposed Residential project: Total built-up area 45925.14 sq m.

Project and Location Details :

Parameters	Description
Plot Area	7691.77 sq m (0.769 ha/1.9006 acres)
Project Cost	INR 70 Crores
Built-up Area (@3.21 F.A.R)	45925.14 sq. m.
Green Area (@ 33 % of plot area)	2538.31 sq m
Population	1013
Water Requirement	90 KLD
Fresh Water Requirement	50 KLD
Wastewater Generation	76 KLD
STP Capacity	85 KLD
Total Municipal Waste	415 kg/day
Power Requirement	Maximum power demand for the project during operation phase is estimated to be 1500 kVA respectively. Source of power will be Jharkhand State Electricity board. 500 KVA of
DG Sets	2 nos. of DG set of 500 KVA
RWH Pits	4 no.
Parking Area	11668.93 sqm
Connecting road	Road adjacent to the site is Morabadi Road (0.18, E) Morabadi Road (0.18, E) Kanke-Ormanjhi Road (1.07 km,N) SH 2 (2.64 km , W)
National Highway	NH 20 (6.46 km, E)

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Nearest Railway Station	Ranchi Junction Railway Station (7.60 km, S)
Airport	Birsa Munda Airport (11.16 km, S)
Nearest Hospitals	Hill View Hospital & Research Centre (2.10 km, S)
Nearest Water Bodies	<ul style="list-style-type: none"> • Kanke Dam (3.68 km, SSW) • Ranchi Lake (2.77 km, S) • Dhruwa Dam (15 km, SSW) • Getalsud Dam (14.25, NE) • Subernrekha River(9.75 km, E) • Jumar River (4.29 km, NE)

CO-ORDINATES

Point	Latitude	Longitude
A	23°25'3.75"N	85°20'37.56"E
B	23°25'4.37"N	85°20'37.78"E
C	23°25'3.19"N	85°20'37.94 "E
D	23°25'3.40"N	85°20'38.04"E
E	23°25'5.26"N	85°20'38.17"E
F	23°25'2.46"N	85°20'38.80"E
G	23°25'2.51"N	85°20'40.13"E
H	23°25'4.56"N	85°20'40.32"E
I	23°25'2.03"N	85°20'41.86"E
J	23°25'3.58"N	85°20'43.10"E

LAND DETAILS :

Khata No.	Plot No.
89	1072, 1073 & 1074

Area Summary :

S. NO.	DESCRIPTION	AREA (SQ M)
A.	Total plot area	7691.77
B.	Road Widening Area	212.99
C.	Plot Area After Road Widening	7478.78
D.	Proposed Ground Coverage (@ 38.59 % of plot area)	2968.25
E.	Proposed FAR (@ 3.21)	26915.2

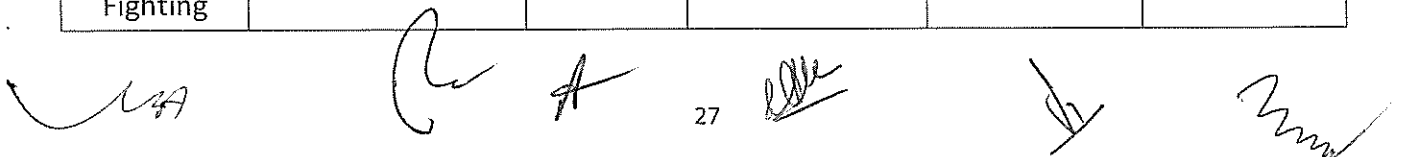
F.	Non FAR Area (Strain case, Lift, Balcony, Ramp, Accessory Use, Basement Parking)	7341.01
G.	Basement Parking area	11668.93
H.	Built-up Area (E+F+G)	45925.14
I.	Green Area (@ 33 % of plot area)	2538.31
J.	Drive way & Open Area/paved area	3415.91
K.	Height (m)	55
L.	No of Dwelling Units	143

Block Wise Dwelling Units Details :

S. NO.	BUILDING BLOCKS (RESIDENTIAL BUILDING)	NUMBER OF FLOORS	DU'S
1.	Residential BLOCK A(B1+B2+G+14+Terrace)- Duplex	15	7
2.	Residential BLOCK A(B1+B2+G+14+Terrace)- 4bhk +1	15	28
3.	Residential BLOCK A(B1+B2+G+14+Terrace)- 3bhk +1	15	26
4.	Residential BLOCK A(B1+B2+G+14+Terrace)- 3bhk	15	26
5.	Studio/EWS	-	15
	Total		143

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
Domestic					
Residents	644	100	65	45	20
Staff	32	45	2	0.6	1.4
Visitors	64	15	1	0.3	0.7
Commercial Area (Staff)	273	45	13	3.9	9.1
Total Domestic Water Demand			81	50	31
Landscape	1307.60 sqm	3 ltr/sqm	4	-	4
Fire Fighting			1	-	1



DG cooling	500 KVA(1*250+1*250)	0.9 l/kVA/hr	4	-	4
Total		-	90	50	40

(D.G. sets operation period is 8 hrs.)

Wastewater Calculations

Category	Total Quantity (KLD)
Domestic (fresh) water Req.	50
Flushing water Req.	31
Sewage generation (@90% of the Domestic + 100% flushing water requirement)	76
Capacity of STP	85
Recovered water from STP (90% of Waste water)	68
1. Flushing	31
2. Landscaping	4
3. Fire Fighting	1
4. DG cooling	4
5. road washing/sewer	28

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non-Recyclable (kg/day)
1.	Residents	644	0.5	322	258	64
2.	Staff	32	0.25	8	6.4	1.6
3.	Visitors	64	0.15	10	8	2
4	Commercial Area (Staff)	273	0.25	69	55	14
4.	Landscape waste	0.32 acres	1 kg/acres	1	1	-
5.	STP sludge	85 KLD	--	5	5	-
Total Waste Generated				415	333	82

ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.

- Total green area provided at the site is 2538.31 sq m (33 % of the plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

Water Quality Management

During Construction Phase



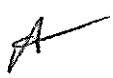



- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Laborers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 85 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG/HVAC cooling, flushing, fire fighting.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 50 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material




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- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

- Energy will be conserved via solar power & LED of at least 5 % of the total power requirement.

Undertaking

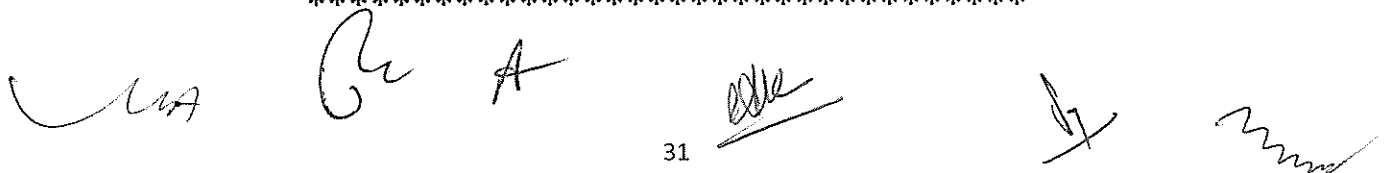
1. An affidavit stating that no construction work.
2. An undertaking that 68 m³/day recycles waste water generated at Proposed Residential and Commercial Project located at Khata no. 89, Plot no.1072, 1073 and 1074, Mauza-Bheetha Circle Office-Helal, District-Ranchi, State-Jharkhand.
3. An undertaking that 1500 kVA Power requirement in Proposed Residential and Commercial Project located at Khata no. 89, Plot no.1072, 1073 and 1074, Mauza-Bheetha Circle Office-Helal, District-Ranchi, State-Jharkhand.

STATUTORY CLEARANCES

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. : 706, dated 23.02.2023 certified that the distance of reserved/protected forest is more than 250 m from project site.
2	DFO wildlife	:	DFO, Wildlife division, Ranchi vide letter no. 140, dated 23.02.2023 certified that proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
3	CO certificate	:	The CO, Hehal (Ranchi) vide vide letter no. 09, dated 23.02.2023 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyan & Register II.
4	AAI NOC	:	Airport authority of India issued NOC vide NOC ID RANC/EAST / B/112722/728865, dated 15.12.2022.
5	Fire Department	:	A fire advisory has been issued by Fire Department, Jharkhad, Ranchi vide vide memo no. 4738/Tech./2022, dated 10.12.2022.
6	Building Plan	:	Conceptual Plan submitted.

Based on the presentation made and information provided, the Committee decided that the proposal for Proposed Residential & Commercial Project of M/s Vicint Homes Pvt. Ltd., Mouza :Bheetha, Tehsil : Hehal, Distt. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I alongwith the following specific conditions :

- I. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. All raw material to be stored only under covered shed.
- III. PAs to offset (upto20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- IV. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
- V. Trees should be developed & maintained not less than 15% of project area.
- VI. Organic Waste Converter (OWC) to be installed of sufficient capacity such that all organic waste (bio degradable) generated is composted at source only.
- VII. Developers/Company to install STP of sufficient capacity such that all the sewer produced is treated and reused.
- VIII. Developers/Company to install Rain water harvesting structures such that all the roof top water runoff is collected and harvested including reuse on 100% basis.
- IX. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
- X. Water runoff originating from open non constructed areas of project premises to be harvested /guided in such a way that it does not create water logging condition outside.
- XI. Sufficient number of EV fast charging points to be installed.
- XII. MSW Collection centre should be located in isolated and preferably unmanned area. Movement of the vehicle carrying waste should be under tarpaulin covered condition only. Route of vehicle should be such that it avoids residential areas as far as practical.
- XIII. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr management.
- XIV. A cycling tract to be provided in residential complex so as to save on fuel and make in campus movement environment friendly.

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5. Residential Cum Commercial Project “Faii Residency” of M/s R.K. Builder and Developers, Village : Bhitha, Thana : Gonda, Tehsil : Ranchi, Thana no. : 187, Distt. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/INFRA2/ 422229/2023)

Name of the consultant : P & M Solution, Noida

This is a case of violation which has been taken for reappraisal on 22.03.2023

The project is a violation case since the project proponent has started the construction without prior Environmental Clearance from State Environment Impact Assessment Authority (SEIAA), Jharkhand.

However, The Honourable Supreme court in its order dated 9th December 2021 In the matter of the Civil appeal No 7576-7577 of 2021 in the Electro steel Steels Limited Vs Union of India and Ors in its para 93 has inter- alia observed the following :

“The interim order passed by the Madras high Court appears to be misconceived. However, this court is not hearing an Appeal from that interim order. The interim stay passed by the Madras High court can have no application of operations of the Standard Operating Procedure to the projects in territories beyond the territorial jurisdiction of Madras High court. However, final decision may have been taken in accordance with the Orders/ Rules prevailing prior to 7th July, 2021.”

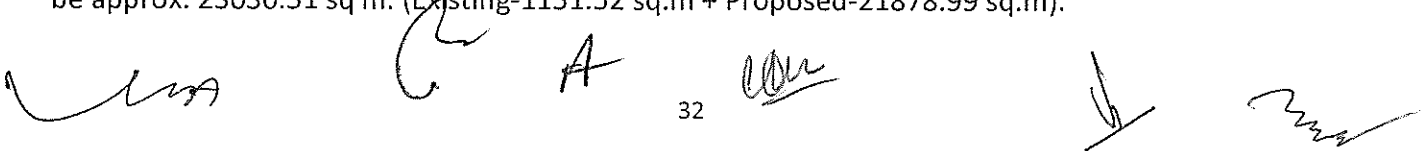
Thus, the SEIAA, Jharkhand, in the light of Ho’ble Supreme Court order dated 9th December 2021, Office Memorandum no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India and Standard Operating Procedure (SOP) issued by MoEF&CC, Govt. of India vide its file number 22-21/2020-IA-III, dated 07.07.2021, the matter has been taken for consideration & recommendation of EC for violation projects.

Project Category : 8 (a) Category B2 – (at par with B1 being violation case)

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 96th meeting held on 16-19.08.2022 and SEIAA, Jharkhand has approved the violation ToRs in 97th meeting held on 25th & 26th August, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2022-23/2624/2022/253, date 02.09.2022. The final EIA / EMP submitted by PP to SEIAA on 17.03.2023 and which was forwarded to SEAC on 18.03.2023.

Application for: Commercial buildings : Total built-up area is 23030.51 sq m.

M/s RK Builder and Developers has planned to develop a residential cum commercial project “Faii Residency” located at Village Bhitha, Thana No. 187, Thana Gonda, District Ranchi, Jharkhand. Project site is spread on area of 6935.96 sq m. Project involves development of 3 nos. of residential blocks (Block B: LG+G+6, C:G+7 & D: G+6) and 1 No of residential cum commercial block (Block A: B+LG+G+8) along with the allied facilities like waste management system, storm water management system, water supply system, sewerage system, adequate parking facility and green area. Commercial area is available only in Block A. Built-up area of project after development will be approx. 23030.51 sq m. (Existing-1151.52 sq.m + Proposed-21878.99 sq.m).

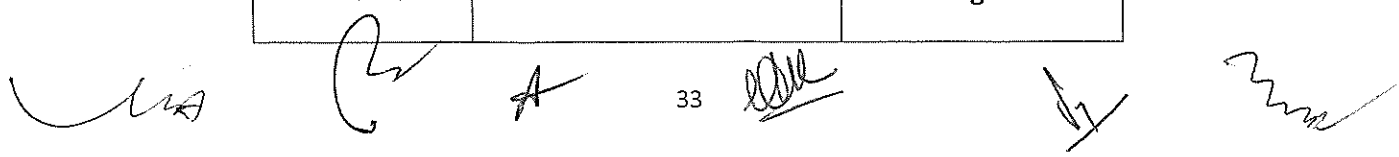
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Project and Location Details :

Parameters	Description
Plot Area	6935.96 m ² (approx. 1.71 Acre/0.69 Ha)
Project Cost	INR 22 Crore
Built-up Area	23030.51 m ²
Green Area (@16 % of plot area)	1103.65 sq m
Population	1352
Water Requirement	160 KLD
Fresh Water Requirement	77 KLD
Wastewater Generation	103 KLD
STP Capacity	110 KLD
Total Municipal Waste	452 kg/day
Power Requirement	Maximum power demand for the project during construction and operation phase is estimated to be 50 kVA and 400 kVA respectively. Power supply will be taken from Jharkhand State Power Corporation Limited.
DG Sets	DG set of 125 kVA
No. of RWH Pits	09 pits
Parking	Area - 7786.9 m ² , 507 parking space Car - 240(218 residents and 22 Visitor's) Two- wheeler - 261, Other – 6
Connecting road	Kanke Patratu road/SH-2 (Abuts site, W)
National Highway	NH-75 (4 km, S)
Nearest Railway Station	Ranchi Junction Railway Station (8 km, SSE)
Airport	Birsa Munda Airport (11 km, S)
Nearest Hospitals	Hill View Hospital & Research Centre (3.8 km, SE) Vivekanand Hospital (3.6 km, S)
Nearest Water Bodies	Ranchi Lake (5.4 km, S) Kanke Dam (1.5 km, SSW)

CO-ORDINATES

Point	Latitude	Longitude
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1	23°24'54.84"N	85°19'7.43"E
2	23°24'54.06"N	85°19'6.97"E
3	23°24'54.52"N	85°19'3.05"E
4	23°24'53.56"N	85°19'2.86"E
5	23°24'53.88"N	85°19'1.48"E
6	23°24'54.73"N 23°24'55.04"N	85°19'1.39"E 85°18'59.75"E
7	23°24'55.34"N	85°18'59.74"E
8	23°24'55.25"N	85°19'1.96"E
9	23°24'55.68"N	85°19'1.94"E

Area Summary :

S. No.	Description	Area (sq m)
1.	Plot Area	6935.96
2.	Surrendered for road widening	38.11
3.	Net Plot Area	6897.85
4.	Common Plot	720.32
5.	Balance plot area (1-2-4)	6177.53
6.	Permissible Ground Coverage (@35% of net plot area)	2414.24
7.	Proposed Ground Coverage (@33.96% of net plot area)	2342.22
8.	Permissible FAR (@3.0 of plot area)	20807.0
9.	Proposed FAR (@2.47 of plot area)	17164.86
10.	Non FAR Area	5,865.65
11.	Built-up Area	23030.51
12.	Green Area (@5% of balance plot area)	308.9
13.	Height	29.35
14.	No of Dwelling Units	131

Land Details :

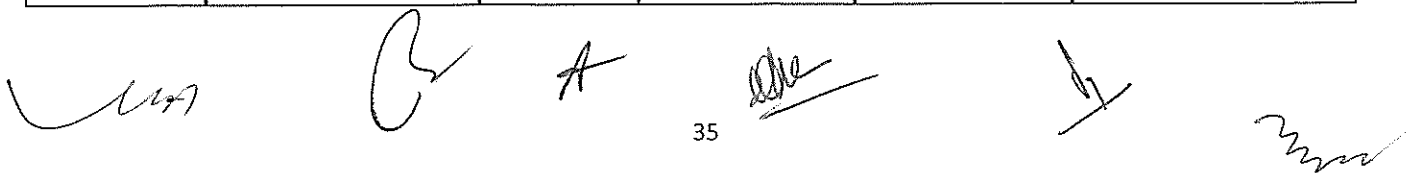
Khata No.	Plot No.
18	30 & 31
83	34
110	32 & 33

STATUTORY CLEARANCES

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 5055, dated 28.12.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide memo no. 763, dated 27.10.2020 certified that the proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
3	CO certificate	:	The CO, Hehal, Ranchi vide letter no. 848(ii), dated 31.10.20 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatian.
4	Fire Department	:	A Fire Advisory has been issued by Fire Department, Jharkhand, Ranchi vide memo no. 1920/tech. dated 26.04.2019
5	Building Plan	:	Ranchi Municipal Corporation has approved building plan vide memo no. RMC/BP/1647/W01/2019, dated 31.03.2022
6	AAI	:	Project Authority has undertaken that building height is below of 30 m. Hence approval of Airport Authority of India (AAI) is not required. In future if it is required the same will be obtained from Airport Authority of India.

Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
Domestic					
Residents	655	135	88	62	26
Staff	78	45	4	2	2
Visitors	619	15	19	13	6



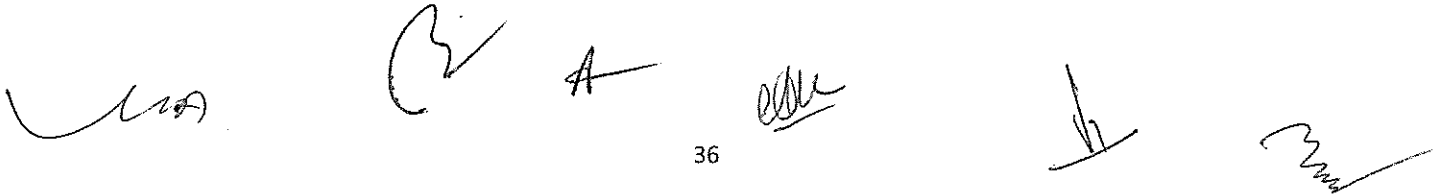
Total Domestic Water Demand			111	77	34
Landscape	308.9 sq m	1 l/day	1	0	1
HVAC Cooling	--	--	48	0	48
Total		-	160	77	83

Wastewater Calculations

Category	Total Quantity (KLD)
Fresh water Req.	77
Flushing water Req.	34
Sewage generation (@80% of the water consumption)	103
Capacity of STP	110
Recovered water from STP (80% of Waste water)	83
1. Flushing	34
2. Landscaping	1
3. HVAC Cooling	48

Solid Waste Requirement

S. No	Description	Occupancy /Area	kg/capita/ day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	655	0.5	328	98	230
2.	Staff	78	0.25	20	6	14
3.	Visitors	619	0.15	93	28	65
4.	Landscape waste	0.07 acres	0.2 kg/acres	1	0	1
5.	STP sludge	103 KLD	--	10	0	10
Total Waste Generated				452	132	320



ENVIRONMENT MANAGEMENT

Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Total green area provided at the site is 1103.65 sq m (16 % of the net plot area). which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

Solid Waste Management

During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or SPCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

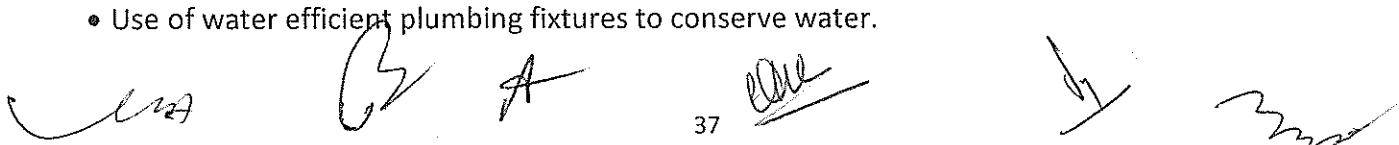
Water Quality Management

During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Laborers.
- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

During Operation Phase

- STP of capacity i.e. 110 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Landscaping, Flushing, and HVAC Cooling.
- Use of water efficient plumbing fixtures to conserve water.

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- Approx. 77 KLD of fresh water is required during operational phase of the project.

Air Quality Management

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by water sprinkling.
- Adequate maintenance of construction equipment & vehicles.
- Wheel wash facility at the entry/exit of the site to prevent dust emissions.
- Periodical Ambient Air Quality Monitoring.
- PUC Certified vehicles.
- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

Energy conservation

Energy will be conserved via solar power & LED of at least 5 % of the total power requirement.

During the presentation it was observed that the technical presentation of the EIA was not as per ToR points. Hence, the project is being deferred to be taken up after receipt of request for reconsideration.

Day 3 : March 23rd, 2023 [Thursday]

Consideration of Proposals

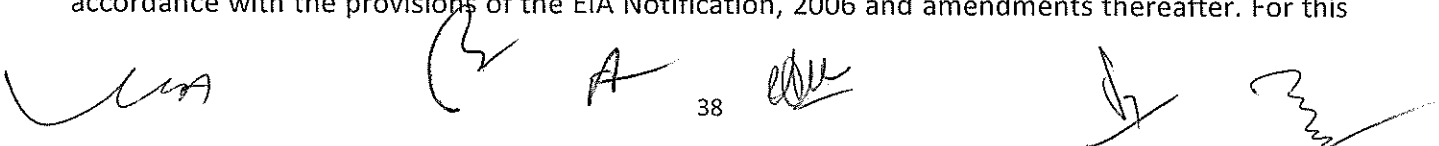
1. Brahmandungri Soapstone Mine of M/s Ganga Engineering, Village : Brahmandungri, Tehsil : Rajnagar, Distt. : Saraikela-Kharsawan, Jharkhand (31.36 Ha).

(Proposal No : SIA/JH/MIN/417227/2023)

Name of the consultant: Vardan Environet, Haryana.

This is a **violation project** which has been taken for appraisal on 23.03.2023 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this



purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 1 (a) Mining of minerals as per EIA Notification, 2006.

Mining lease was granted to M/s Ganga Engineering and the mining lease Brahmandungri Soapstone mine lease deed was executed on 07.03.2005 for a period of 20 years over an extent of 31.36 Ha. The mining lease area cover 25.31 Ha of private land and 6.05 Government land. The application for renewal of mining lease was made by M/s Ganga Engineering for exploitation of Soapstone. M/s Ganga Engineering was in possession of the entire lease and was performing the mining operation from the subject mines.

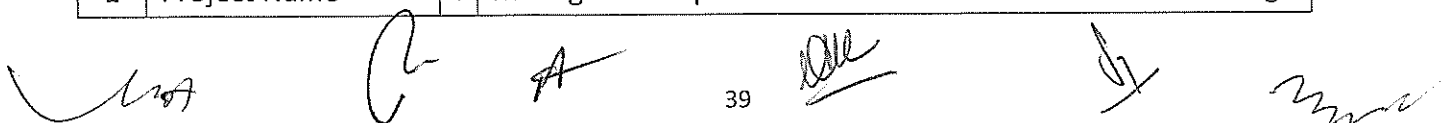
Previously the Mining Plan of the said mine was approved by the Regional Controller of Mines, Indian Bureau of Mines, Ranchi Region, Ranchi. The approval was given under the Letter No. CAL/SARKHAR/SST/MP-634 dated 22.11.2004. Scheme of mining is prepared for the period of 2020-21 to 2024-25. Mining operation is being carried out in the area since 18.04.2007 without granting the mining lease and the mining lease is closed Since 2013.

Past production has been certified by Mining officer, Saraikela Kharsawan, Jharkhand vide letter no 243/M, dated 29.03.2019, Letter also states that the mining activity has been stopped since 2013.

Sr. No.	Previous Years	Production (MT)
1	2004-05	0.00
2	2005-06	0.00
3	2006-07	0.00
4	2007-08	83.00
5	2008-09	355.00
6	2009-10	362.00
7	2010-11	1736.00
8	2011-12	4040.600
9	2012-13	1400.00
10	2013-14	0.00
11	2014-15	0.00
12	2015-16	0.00
13	2016-17	0.00
14	2017-18	0.00

Project and Location Details:

Sl.	Parameter	Details
1	Project Name	: Mining of Soapstone minor mineral from Brahmandungri









			Soapstone mine with 42822.00 TPA Production capacity over a ML area of 31.36 ha located at Village– Brahmandungri, Tehsil- Rajnagar, District – Saraikela-Kharsawan, State- Jharkhand, Proposed by M/s Ganga Engineering.
2	Lessee:	:	M/s Ganga Engineering, Authorized Signatory- Mr. Jitendra Agarwal Garg
3	Lease Address	:	Village– Brahmandungri, Tehsil- Rajnagar, District – Saraikela-Kharsawan, State- Jharkhand
4	Lease Area	:	Ha: 31.36 Acres: 77.49
5	Type of Land	:	Non-Forest
6	Project Cost	:	Rs. 1.518 Crore
7	EMP Budget	:	Capital: Rs. 15.80 Lakhs Proposed
8	New or Expansion	:	Violation
9	Mineable Reserves	:	Cu.M.: 309114.2 Tonnes: 695506.95
10	Mine Life	:	17 Years
11	Manpower	:	Direct- 50 Indirect- 100-150
12	Water Requirement	:	26.9 KLD (Drinking: 2.0 KLD, Dust Suppression: 24 KLD & Plantation: 0.9 KLD)
13	Water Source	:	Supplied through authorized tankers
14	DG Set / power	:	Not Applicable
15	Crusher	:	Not Applicable
16	Nearest Water Body	:	Kharkai River - 3.5 km N Sitarampur Reservoir – 6.7 km NW Bhangbanga Nadi – 8.1 km SW
17	Nearest Habitation	:	Bamdih – 0.46 km NW
18	Nearest Rail Station	:	Adityapur Railway Station – 6.5 km NNE Direction
19	Nearest Airport	:	Sonari Airport: 10 km in NNE Direction Birsa Munda Airport: 108 km in NW Direction
20	Nearest Forest	:	Nandu PF – 1.6 km NE Kudada RF – 0.47 km SE Gotigoratola – 4.9 km SE Daraimachh PF – 1.5 km SW
21	Road & Highways	:	SH 6 – 4.7 km NE Rajnagar Jugsalai Road – 2.0 km NW

CO-ORDINATES

1	Latitude	:	From 22°43' 8.204"N	To 22°43' 33.860"N
2	Longitude	:	From 86° 08' 52.810"E	To 86° 08' 53.837"E

LAND DETAILS :

Khata No.	Khasra No.	Khata No.	Khasra No.
1	354, 355, 363, 365	27	316, 341, 343
4	338, 348	38	357, 358
8	302, 369, 370	41	339, 345, 259, 260, 261, 262, 263, 264, 323, 330, 334, 335, 356
10	272, 277, 282, 289, 307	54	238, 239
11	293, 294	57	241
12	290, 276	58	303, 304, 305, 310, 361, 362
13	292	59	318, 360
14	321, 322, 324, 325, 336, 236, 237, 242	60	344, 351, 352
16	340	61	328, 342, 327, 353, 371, 372
17	243	64	373
20	273, 274, 288, 295, 297, 300	65	271
20	279, 280, 284, 283, 287, 306, 308	66	376
21	268, 281	67	375
25	245, 347, 349, 337, 244, 256, 257, 258, 265, 346, 251, 252, 253, 254, 255, 246, 247, 248, 249, 250	76	319, 320, 326, 359, 367, 374, 315, 377, 240, 266, 267, 275, 298, 301, 309, 311, 317, 350

STATUTORY CLEARANCES :

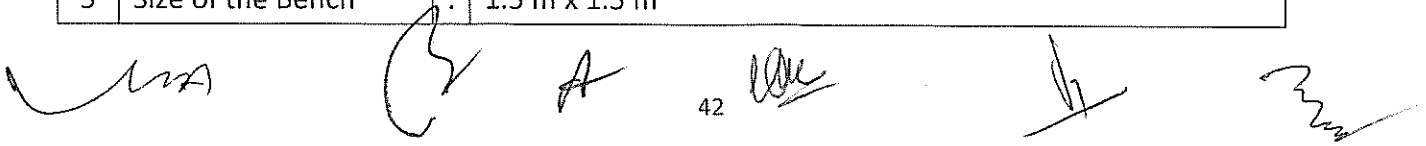
1	LOI/Lease docs	:	Mining lease was granted to M/s Ganga Engineering and the mining lease Brahmandungri Soapstone mine lease deed was executed on 07.03.2005 for a period of 20 years over an extent of 31.36 Ha.
2	CO	:	<p>The CO, Gamharia vide letter no. : 1097, dated 29.10.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II. CO, Gamharia has also mentioned that the 15 houses exist at a distance of 200 m in North side, 15 houses at a distance of 25 m in East side and 08 houses at a distance of 35 m in West side.</p> <p>The total lease area is 77.46 acre whereas the mining quarry area at conceptual stage will be 23.71 acres.</p> <p>The PAs have submitted as follows :</p>

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		<p>Mitigation measures for nearby habitation :</p> <ul style="list-style-type: none"> • Obtained NOC from gram sabha for operation of the Soap Stone Mines. • Mine pit even at ultimate stage is more than 100 m from the mine boundary in direction of nearby habitations. • Green belt of minimum 30 m (including safety zone of 7.5 m) will be developed along the mine boundary in the said directions. • Only manual mining is proposed. No drilling or blasting – thus minimum noise & vibration envisaged at habitations. • Regular water sprinkling will be done for dust suppression due to mining activities. • Transportation of materials will not be done on the roads passing through these habitations.
3	DMO	: DMO, Saraikela-Kharsawan vide letter no. 341/M, dated 06.06.2019 certified that no other mining lease area exists within 500 m radius from project site.
4	DFO Wild Life	: DFO, Dalma Elephant Project vide letter no. : 87, dated 29.01.2022 certified that the proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
5	DFO Forest Distance	: DFO, Seraikela Forest Division vide letter no. : 164, dated 27.01.2022 certified that the distance of notified forest is more than 250 m from project site.
6	DSR	: The project is already mentioned in District Survey Report of West Singhbhum.
7	Gram Sabha	: Gram Sabha conducted on 05.01.2022.
8	Mine Plan Approval	: Mine plan approved by Deputy Director Mines, Kolhan Circle, Chaibasa vide letter no. 14/DDM, dated 06.01.2023.

WORKING DETAILS

1	Mining Method	: Opencast Manual Mining
2	Quarry Area	: End of Life – 9.60 ha Life of Mine – 17 Year
3	Waste Generation	: 5 years–31736 m ³
4	Stripping Ratio	: 1:0.19
5	Size of the Bench	: 1.5 m x 1.5 m



6	Working Days	:	300 days/year
7	Elevation range of the mine site	:	Minimum- 213 m RL Maximum- 945 m RL
8	Topography of Mine	:	Gently Slope
9	Explosive Requirement	:	Not applicable
10	Diesel/Fuel requirement	:	Not applicable due to manual mining

Production Details:

Year	Soil in m ³	O.B. in m ³	Wastes in m ³	Total Wastage in m ³	Total Soapstone in Tonnes
2020-21	00	00	00	00	00
2021-22	00	00	00	00	00
2022-23	9790.50	3916.20	00	13706.70	35245.80
2023-24	00	4300.50	00	4300.50	38704.50
2024-25	00	4758.00	00	4758.00	42822.00
Total	9790.50	12974.70	00	22765.20	116772.30

LAND USE

Sr. No	Activity	Present Land Use (ha)	After Five Year Land Use (ha)	At the end of lease period ha.
1.	Quarry	0.35	0.86	9.60
2.	Soil Dump	0.05	0.27	Nil
3.	Waste Dump including Parapet Wall & Garland Drain	Nil	0.59	Nil
4.	O.B Dump	0.07	Nil	Nil
5.	Mineral Stack	0.22	0.22	Nil
6.	Road	0.56	0.65	0.12

7.	Green Belt	Nil	1.08	2.89
8.	Total area in use	1.25	3.67	12.61
9.	Gairmazarua & Raiyati Land	30.11	27.69	18.75
Grand Total		31.36	31.69	31.36

ENVIRONMENT MANAGEMENT

Green Belt Development


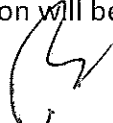




Year	Location	No. of Sapling to be Planted	Species	Place of Plantation
2020-21	Along Safety Barrier	Nil	Neem, Peepal, Mango, Shisham, Sirish, Babool, Gulmohar	Along the roads, safety barrier, on dumps
2021-22	Along Safety Barrier	Nil		
2022-23	Along Safety Barrier	200		
2023-24	Along Safety Barrier	200		
2024-25	Along Safety Barrier	200		

Solid Waste Management

Year	Soil in m ³	O.B. in m ³	Wastes in m ³	Total Wastage in m ³
2020-21	3559	1109	1119	5787
2021-22	00	6968	1039	8007
2022-23	00	8636	1127	9763
2023-24	4167	7797	1112	13076
2024-25	3569	7226	1104	11899
Total	11295	31736	5501	48532

Water Pollution Control Measures:

- The Ultimate Area of the Quarry will be 9.60 Ha at the end of life.
- Mining operation will be restricted to the depth of 25 meter from surface level.

- The clogged water during rainy season will be pumped out from the quarries and will be tested before discharge to nearby cultivated field. Apart from this, there is no change on water environment.
- There will be no wastewater generated from the mining operations. Only domestic waste water will be generated, which will be treated in septic tank/soak pits.

SW & GW Management:

1. Mining will not intersect the ground water table during the plan period.
2. The mining will not have any impact on the topography and the natural drainage of the surrounding area.

Air Pollution Control Measures:

- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation, through village roads, emphasis will be given on the following points:

1. Tractors-dumper will be well maintained from time to time and PUC certified vehicles will be used.
2. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
3. Minimum use of horns in the village area and silence zone (if any) as applicable.

Noise Pollution Control Measures:

1. Proper maintenance of all machines will be carried out, which help in reducing the generation of noise during operations.
2. Only transportation vehicles, for loading will be allowed.
3. Noise generated by equipments is intermittent and does not cause much adverse impact.
4. Periodical monitoring of noise will be done to adopt corrective actions wherever needed.
5. Plantation will be taken up along the approach roads. The plantation minimizes propagation of noise and also arrests dust.

Topsoil Management:

Yearly generation of soil/ fines will be used for plantation and as a upper layer on the dumps. Top soil (if any) will be stacked in the area in area earmarked for stacking.

There are no toxic elements present in the mineral which may contaminate the soil or water.

Undertaking submitted affirming :

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.

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- b. The district survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. The plantation work will be completed within the third year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- f. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- g. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- h. If tree falling is required permission from computed authority should be obtained.

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 21, 22, 23, 24 & 25.03.2023, the Committee recommends for issuing of TOR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III.

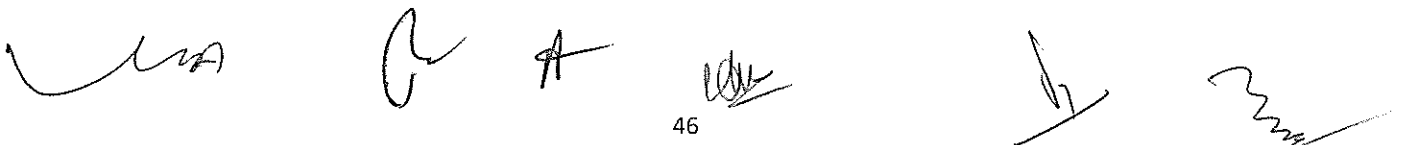
2. Residential Building / Apartment Project "Aastha Valley" of M/s Kamini Kaushal Construction, Village :Tamolia, Distt. : Saraikela Kharsawan, Jharkhand.

(Proposal No. SIA/JH/INFRA2/422412 /2023)

Name of the consultant: Oceao-Enviro Management Solutions (India) Pvt. Ltd., Ghaziabad, Uttar Pradesh.

The PA's has requested for withdrawal of the proposal vide letter dated 23.03.2023 citing the reason that there are changes in project features / configuration in the submitted application. Hence, the PAs is requested to recommend the proposal no. **SIA/JH/INFRA2/422412 /2023** for delisted to SEIAA.

The Committee recommends delisting of the proposal to SEIAA.



3. Noamundi Township of M/s Tata Steel Limited, Village : Mahudi, Tehsil : Noamundi, Distt.: West Singhbhum, Jharkhand.

(Proposal No. : SIA/JH/INFRA2/420076/2023).

Name of the consultant : Crystal Consultants, Ranchi

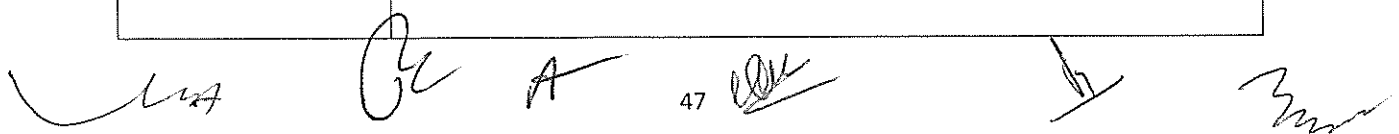
This is a case of violation which has been taken for appraisal on 23.03.2023 in the light of OM no. F.No.22-21/2020-IA.III [E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Noamundi Township of Tata Steel Ltd. is a building construction project under schedule 8(a) of EIA Notification, 2006 & it comprises of four residential building block and one community building.

Project Category : 8 (a) Category B2 – (at par with B1 being violation case).

Project Proponent have already built all building blocks having built-up area 34492.04 Sq.m. as per approved building plan without obtaining Environment Clearance.

PARTICULAR	DETAILS
Project Name	Noamundi Township
Proponent	Tata Steel Ltd.
Type of Building	Residential Building
Latitude	22°9'32.86"N
Longitude	85°30'11.57"E
Mauza	Mahudi
Tehsil	Noamundi
Thana	Mahudi
Thana No.	744
District	West Singhbhum
State	Jharkhand
Plot Area	14281.89 Sq. m.
Plantation	Greenbelt (Tree) :2090.76 Sq. m. (15%) Greencover (Grass) : 220 Sq. m.
Permissible FAR	2.50



Consumed FAR	2.10				
Permissible Ground Coverage	50.00 % i.e. 7140.94 Sq.m.				
Consumed Ground Coverage	28.57 % i.e. 4080.76 Sq.m.				
Project Cost	Rs. 113.00 Crores				
Total Built-Up Area	34492.04 sq.m.				
	Tower 1	Tower 2	Tower 3	Tower 4	Community Building
Break- Up of Built – Up Area (sq. m.)	7581.6	8915.481	7581.6	8915.481	1330.442
Number of Floor	9	9	9	9	2
Building Height	31.13 m	31.13 m	31.13 m	31.13 m	7.87 m
Building Configuration	Total Dwelling Units: 288 (2 BHK) 8 Units per floor i.e. 72 Units X 4 Blocks				
Population	1584 including 10% floating population				
Parking	96 Car Parking 288 Two Wheeler Parking Area : 4,237.85 m ²				
Municipal Solid Waste	Total Municipal Solid Waste = 864.00 Kg / Day Bio-Degradable = 345.60 Kg / Day Non-Biodegradable= 518.40Kg / Day				
Power Requirement	549 KVA Source : JSEB Power Back – Up Source with Capacity				
RWH Pits	4 Pits				
Total Domestic Water Demand	142.56 KLD				
Source of Fresh Water	Existing Water Supply System				
Reuse of treated water for flushing	71.28 KLD				

Volume of Waste Water	185.32 KLD
Capacity of STP	200.00 KLD
Utilization of Treated Water	148.26 KLD Reuse of Treated Water from STP Flushing : 71.28 KLD Dust Suppression : 10 KLD Horticulture : 10 KLD Horticulture usage (TSL sites) : 56.98 KLD
Total Water Requirement	Treated Water 91.28 + Fresh Water 142.56 = 233.84 KLD
<u>Connectivity</u>	
Railway	Noamundi Railway Station 2 Km
Airport	Sonari Airport, Airport 126 Km away & Bisra Munda Airport Ranchi 221 Km away.
Road	Kolebira – Hat Gamharia Road (SH – 04) adjacent to the project site.

LAND DETAILS :

Khata No.	Plot No.
02	597

POPULATION ESTIMATION

Construction Phase : 150 labors will attend during construction phase.

Operational Phase

Number of Residential Building Block = 4

Number of 2 BHK unit in each Block = 72

i.e. Total 2 BHK Unit = 288

As per NBC 2016 norms **5 person** can be accommodate in **2 BHK** Residential Unit;

Hence Estimated population = 5 X 288 = 1440

10 % Floating Population = 1440 X 10% = 144

Total Population = 1440 + 144 = **1584**

ESTIMATION OF MUNICIPAL SOLID WASTE

Building Type	Municipal Solid Waste @0.2 Kg per Person per Day	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)
Construction	30 Kg / Day	12 Kg / Day	18 Kg / Day


Phase			
Operational Phase	864.00 Kg / Day	345.6 Kg / Day	518.40 Kg / Day

WATER & WASTE WATER



Water Balance (KLD)		Source
Domestic	142.56	Existing Water Supply System
Flushing	71.28	Treated Water
Horticulture	10.00	Treated Water
Dust Suppression	10.00	Treated Water
Total	233.84	
Fresh Water Demand	142.56	Existing Water Supply System
Treated Water Demand	148.26	From STP

STP Calculation (KLD)			
Total Domestic Water	142.56	114.04	80% of Domestic Water is Waste Water
Total Flushing Water	71.28	71.28	100% of Flushing Water is Waste Water
<i>Total Volume of Waste Water</i>		185.32	
STP Capacity		200.00	
Waste Water Management (KLD)			
Volume of Treated Water from STP i.e., 80% of Waste Water		148.26	
Break-Up			
Flushing		71.28	
Horticulture		10.00	
Dust Suppression		10.00	
Horticulture usage in TSL sites		56.98	

STATUTORY CLEARANCES :





1	DFO Forest Distance	:	DFO, Chaibasa Forest Division vide letter no. : 139, dated 19.01.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO wildlife	:	DFO, Dalma Elephant Project vide letter no. : 319, dated : 25.02.2023 certified that proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
3	CO certificate	:	The CO, Noamundi vide vide letter no. 48, dated 01.02.2023 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyon & Register II.
4	AAI NOC	:	Airport authority of India issued NOC vide NOC ID ROUR/EAST / B/030620/451377, dated 20.04.2020.
5	Fire Department	:	A fire advisory has been issued by Fire Department, Jharkhad, Ranchi vide vide memo no. 1577/Tech., dated 26.06.2019.
6	Building Plan	:	Building approved by West Singhbhum Zila Parishad vide memo no. 0002, dated 10.09.2019.

One month additional data to be done for the month April, 2023.

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 21, 22, 23, 24 & 25.03.2023, the Committee recommends for issuing of TOR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

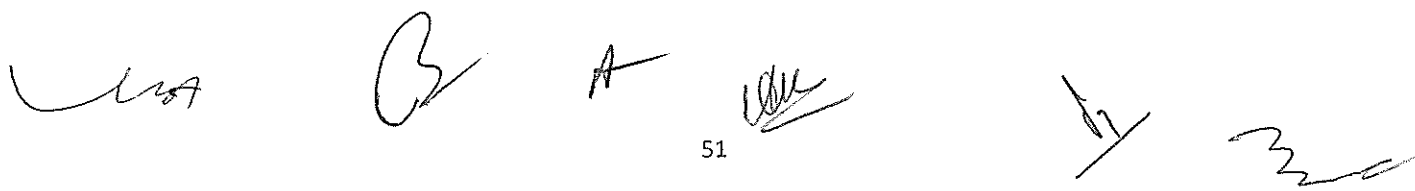
4. "Vinayak Square" of M/s Vidhi Developers Pvt. Ltd., Village :Dobo, Tehsil :Chandil, Distt.: Seraikela-Kharsawan, Jharkhand.

(Proposal No. : SIA/JH/INFRA2/ 412489/ 2022).

Name of the consultant : Crystal Consultants, Ranchi

This is a case of violation which has been taken for appraisal on 23.02.2023 in the light of OM no. F.No.22-21/2020-IA.III [E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

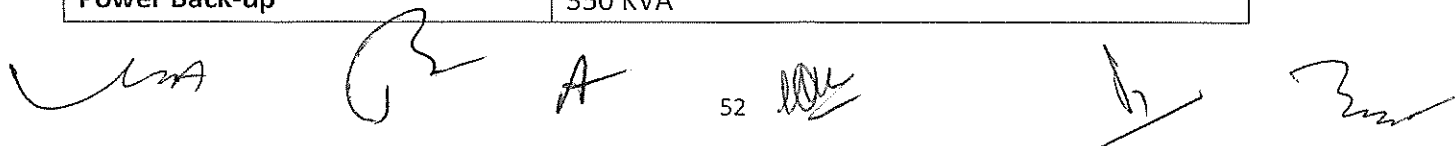
Project Category: 8 (a) Category B2 – (at par with B1 being violation case)



Vinayak Square of M/s Vidhi Developers Pvt. Ltd. is a proposed building construction project under schedule 8(a) of EIA Notification, 2006 & it comprises two residential building blocks.

Details of the project :

Particular	Details
Project Name	VINAYAK SQUARE
Proponent	M/s Vidhi Developers Pvt. Ltd. Vinayak Garden, Tata Kandra Main Road, Opp. Sudha Diary, Dhirajganj, Gamharia, Seraikela – Kharsawan – 832108 (Jharkhand).
E-mail	info@vidhidevelopers.com
Type of Building	Residential
Coordinate	22° 50' 34.08" N 86° 10' 3.49" E
Mauza	Dobo
Tehsil	Chandil
District	Seraikella Kharsawan
State	Jharkhand
Plot Area	10515.91 Sq. m.
Ground Coverage Permissible	35.00 %
Ground Coverage Consume	28.73%
FAR Permissible	3.00
FAR Consume	3.00
Height	43.34 mtr
Total Built-Up Area	43781.41 Sq. m.
No. of Floor	Tower 1 : G + 12 Tower 2 : G + 13
No. of Building Block	2
Building Configuration	206 2 BHK : 36 3 BHK : 109 4 BHK : 61
Municipal Solid Waste	832.20 Kg/Day <i>(Including Bio-degradable Solid Waste is 332.88 Kg/Day & Non Bio-degradable Solid Waste is 499.32 Kg/ Day)</i>
Population	1387
Parking	Car Parking : 243 Visitor Car Parking : 20 Two Wheeler Parking : 216 Area for Parking 7626.27 Sq. m.
Power Requirement	500 KVA <i>Source : Jharkhand State Electricity Board</i>
Power Back-up	350 KVA

 52

RWH Pits	2 Number
Total Water Demand	180.63 KLD
Total Fresh Water Demand	97.09 KLD
Total Treated Water Demand	83.54 KLD
Volume of Waste Water	155KLD
Capacity of STP	160KLD
Project Cost	70 Crore
Geotechnical Investigation	By R. R. M & Associates

LAND DETAILS :

Khata No.	Plot No.
200	984, 987, 989 & 990

Population Estimation

Construction Phase : 150 labors will attend during construction phase.

Operational Phase

	Configuration	Number of Dwelling Units	Number of persons as per NBC	Population
Residential Building 2 BHK : 36 3 BHK : 109 4 BHK : 61	1 BHK	0	4	0
	2 BHK	36	5	180
	3 BHK	109	6	654
	4 BHK	61	7	427
	Sub-Total			1261
	Floating Population (10% of Total Population)			126
	Total			1387

Municipal Solid Waste

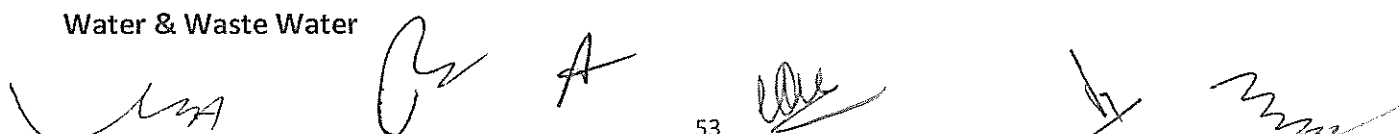
Construction Phase

Building Type	Municipal Solid Waste @0.2 Kg per Person per Day	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)
Residential Building	30 Kg / Day	12 Kg / Day	18 Kg / Day

Operational Phase

Building Type	Municipal Solid Waste @0.6 Kg per Person per Day	Bio-degradable (40% of MSW)	Non-Biodegradable (60% of MSW)
Residential Building	832.20 Kg / Day	332.88Kg / Day	499.32Kg / Day

Water & Waste Water



Construction Phase

Potable : 1.5 KLD @ 10 L per Person
 Flushing : 2.5 KLD @ 15 L per Person
 Construction work : 25 KLD
Total : 29 KLD
 Source – Municipal Tanker Supply

Operational Phase

Water Balance (KLD)		Source
Domestic @70L/P/Day	97.09	Fresh Water Water Supply System
Flushing @35L/P/Day	48.54	Treated Water
Horticulture	5.00	Treated Water
Dust Suppression	10.00	Treated Water
Car Washing	20.00	Treated Water
Total	180.63	
Fresh Water Demand	97.09	
Treated Water Demand	83.54	

STP & Waste Water Management :

STP Calculation (KLD)			
Total Domestic Water	97.09	77.67	80% of Domestic Water is Waste Water
Total Flushing Water	48.54	48.54	100% of Flushing Water is Waste Water
Total Volume of Waste Water		126.21	
STP Capacity		150.00	
Waste Water Management (KLD)			
Volume of Treated Water from STP <i>i.e., 80% of Waste Water</i>			101
Break-Up			
Flushing			48.54
Horticulture			10.00
Dust Suppression			5.00
Car Washing			20.00
Discharge			17.45
Loss 20 % loss on account of evaporation, loss in conveyance and processing.			25.21

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Rain Water Harvesting

2 Rainwater Harvesting pits are proposed. Rain water from roof tops will be drained through rain water vertical down take pipes. These vertical down take pipes shall be located at suitable locations inside the shafts or periphery of the building. The terrace will be sloped. The down take pipes will be connected to the storm water network and then to Rainwater Harvesting Pits.

Catchment Area(m ²)	Runoff Coefficient	Intensity of Rainfall in 24 hr. (mm)	Maximum Intensity of Rainfall hourly (mm/hr)	Retention Time - Runoff (m ³ /15 mins)	Runoff 60 minutes
2064.48	0.85	180	9	3.95	15.79
Volume of desilting Tank (m ³)	Volume of Recharge Pit (m ³ Per pit)	Total Volume (M ³)	Runoff 60 minutes	No. of pits required	No. of pits proposed
3.375	3.375	6.75	15.79	2.34	2

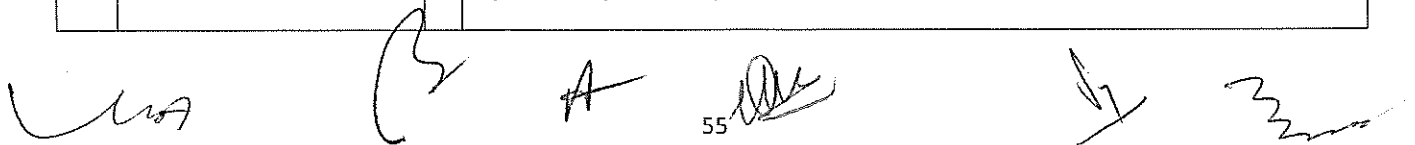
CONNECTIVITY

- Nearest Highway is NH-33 which is about 350 m away.
- Nearest Railway is Tatanagar Railway Station, which is about 12.4 Km.

Nearest Airport is Birsa Munda Airport Ranchi, which is about 120 Km.

STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Seraikela Forest Division vide letter no. : 1055, dated 27.05.2022 certified that the distance of notified forest is more than 250 m from proposed project site.
2	DFO wildlife	:	DFO, Dalma Elephant Project vide letter no. : 87, dated : 07.01.2023 certified that proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
3	CO certificate	:	The CO, Chandil vide vide letter no. 121, dated 10.02.2023 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyani & Register II.
4	AAI NOC	:	Airport authority of India issued NOC vide NOC ID JAMS/EAST / B/101522/702745, dated 22.11.2022.

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5	Fire Department	:	A fire advisory has been issued by Fire Department, Jharkhad, Ranchi vide vide memo no. 2153/Tech./2022, dated 23.05.2022.
6	Building Plan	:	Building plan approved by Saraikela Kharsawan Zila Parishad vide memo no. 0037, dated 22.08.2022.

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 21, 22, 23, 24 & 25.03.2023, the Committee recommends for issuing of TOR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

5. Sahraj Stone Deposit of Md. Khalid Hussain & Md. Firoj Ansari, Village :Sahraj, Thana : Govindpur, Thana no. : 210,Distt. : Dhanbad, Jharkhand (0.967 Ha).

(Proposal No : SIA/JH/MIN/408768/2022)

Name of the consultant: Crystal Consultants, Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 23.03.2023.

Project Category: B2 – Application for Environment Clearance

EC Application for: Boulder Stone : 3637.78 Cu.M / year i.e. 9822 TPA

Waste 2014 Cu.m

DG Set : 5 KVA

Project and Location Details :

Sl	Parameter	:	Details
1	Project Name	:	Sahraj Stone Deposit
2	Lessee:	:	Md. Khalid Hussain & Md. Firoj Ansari
3	Lease Address	:	Mouza- Sahraj, Thana- Gobindpur, Thana No. 210, Dist- Dhanbad, Jharkhand
4	Lease Area	:	Ha: 0.967 ha Acres: 2.39 Acres
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	28.00 Lakhs
7	EMP Budget	:	Capital: 12.18 Lakhs Recurring: 3.335 Lakh / year
8	CSR / CER Budget	:	Rs. 0.56 Lakhs
9	New or Expansion	:	New Project
10	Mineable Reserves	:	Cu.M.: 36283.33 Cu. M. Tonnes: 97965 Tonnes
11	Mine Life	:	10 years

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12	Man power	:	18
13	Water Requirement	:	19.295 KLD (Drinking:0.72 KLD, Dust Suppression:15.0 KLD, Plantation:3.575 KLD)
14	Water Source	:	Water for drinking purpose will be taken out by dug wells/ bore wells. For sprinkling & plantation water will be taken from abandoned mine with prior permission from local bodies.
15	DG Set / power	:	5 KVA
16	Crusher	:	No
17	Nearest Water Body	:	Barakar River 4.5 KM
18	Nearest Habitation	:	Sahraj Village: 0.6 KM; Gobindpur 13.6 KM
19	Nearest Rail Station	:	Thapar Nagar Railway Station 14.0 KM
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi: 148.5 KM
21	Nearest Forest	:	NIL
22	Road & Highways	:	NH 2 – 9.5 KM; Jangalpur- Gobindpur Road 1.2 KM

CO-ORDINATES

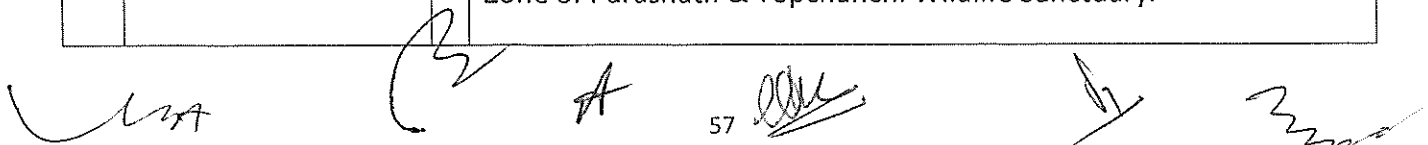
1	Latitude	From N23°53'0.58"N	N23°53'5.52"N
2	Longitude	E86°38'40.23"	E86°38'40.23"

LAND DETAILS :

Khata No.	Plot No.
344	4560, 4572, 4568, 4569, 4570, 4571, 4573, 4575 & 4562

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Dhanbad vide letter no. 878/M, dated 16.03.2022.
2	CO	:	The CO, Govindpur (Dhanbad) vide letter no. : 111, dated 20.01.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Dhanbad vide memo no. 1745/M, dated 13.06.2022 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. : 1032, dated 23.06.2021 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.



5	DFO Forest Distance	:	DFO, Dhanbad Forest Division vide letter no. : 823, dated 08.04.2021 certified that the distance of reserved / protected forest is 275 m from proposed project site.
6	DSR	:	The DC, Dhanbad vide letter no. 205/M, dated 13.02.2023 has informed that this project is part of District Survey Report (DSR) of Dhanbad district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Gram Sabha conducted on 19.10.2020.
8	Mine Plan Approval	:	Additional Director, Geology, Hazaribag vide letter no. G/2022-23-14, dated 11.04.2022.

Working Details

1	Mining Method	:	Semi Mechanized. Jack Hammer, Drilling & Blasting to be used
2	Quarry Area	:	5 years – 0.43 ha Life of Mine – 0.65 ha
3	Waste Generation	:	5 years–2014 Cu.M Life of Mine – Morum – NIL Morum– NIL
4	Stripping Ratio	:	0 : 1 (No O.B.)
5	Working Days	:	295
6	Benches: size & No	:	3m x 3m
7	Elevation of Mine	:	195 AMSL
8	Ground Level Elevation	:	191 AMSL
9	Ultimate Working Depth	:	186 AMSL
10	Water Table	:	179 AMSL & 12 m bgl
11	Topography of Mine	:	Undulating Topography
12	Explosive Requirement	:	1.8 Tons/year
13	Diesel/Fuel requirement	:	29.50 KL/year (100 Litres/day)

Production Details

Year	Production of stone in Tonnes	Production of stone in Cu.m	Production of soil in Cu.m	Intercalated waste in Cu.m	Total Waste in Cu.m
1 st Year	9756	3613	0	402	402
2 nd Year	9781	3623	0	403	403
3 rd Year	9764	3616	0	402	402
4 th Year	9795	3628	0	403	403
5 th Year	9822	3638	0	404	403
Total	48918	18118	0	2014	2014

Land Use

Particulars	Existing	Plan Period
	Area in Hectare	Area in Hectare
Quarry	0.43	0.43
Green Belt (In safety Zone)	0	0.315
Road	0.001	0.002
Dump	0.13	0.100
Retaining Wall & Garland Drain	0	0.011
Total Area used	0.561	0.858
Balance area unused	0.406	0.109
Total Lease Area	0.967	0.967

Post Mining land use :

Water body	0.334 Ha
Green Belt	0.633 Ha
Total	0.967 Ha

ENVIRONMENT MANAGEMENT

Green Belt Development

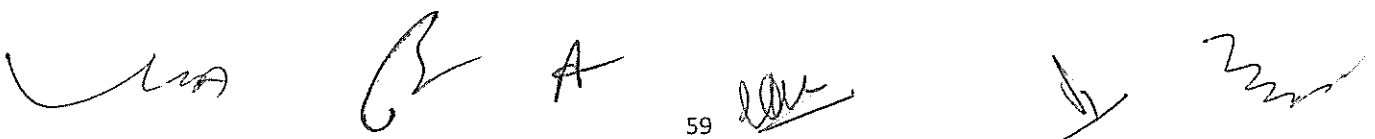
SL	LOCATION	Area/Length	No. of Trees
1	Safety Zone	: 0.317 ha	509 trees @ 1600 trees per ha
2	Other Reclaimed Area	: 0.0 ha	NIL
3	Haul /Approach Road	: 0.30 ha	1000 trees (@334 trees per km on both side in single row)
4	Dead Bench Plantation	0.096 ha	154 trees @ 1600 trees per ha

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Total 2014 Cu.m of waste shall be generated which shall be use for haul road dressing during the plan period and backfilling.

Water Quality Management



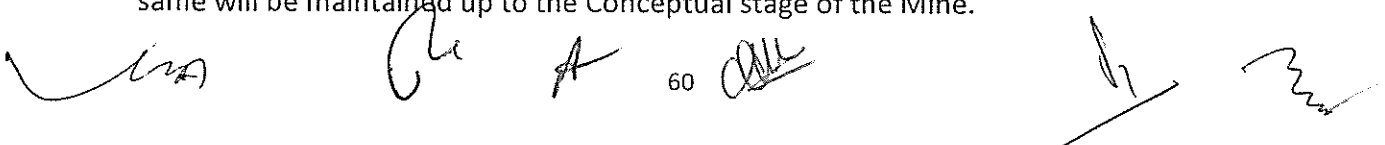
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.


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- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Sahraj Stone Deposit of Md. Khalid Hussain & Md. Firoj Ansari, Village :Sahraj, Thana : Govindpur, Thana no. : 210,Distt. : Dhanbad, Jharkhand (0.967 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II.

6. Amit Kumar Mandal Stone Mine of Sri Amit Kumar Mandal, Mouza : Badalpur, Thana : Nirsa, Thana no. : 187, Distt. : Dhanbad, Jharkhand (1.18 Ha).

(Proposal No : SIA/JH/MIN/418417/2023).

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 23.03.2023.

Applied Area :2.92 Acre (1.18 Ha)

Project Category :B2 – Application for Environment Clearance

EC Application for : 38,888.88 cum. / year (max)

Overburden :2400 m³ during plan period.

DG Set : 20 KVA

Project and Location Details :

Sl.	Parameter	Details	
1	Project Name	: Amit Kumar Mandal	
2	Lessee:	: Proprietor- Sri Amit Kumar Mandal	
3	Lease Address	: Mouza- Badalpur, Thana Nirsa, No 187, District – Dhanbad, Jharkhand.	
4	Lease Area	: Ha: 1.18	Acres: 2.92
5	Type of Land	: Non-Forest – Rayati Land	
6	Project Cost	: Rs. 75.30 Lakhs	
7	EMP Budget	: Capital: Rs. 7.64 Lakhs	Recurring: Rs. 1.89 Lakhs/ year
8	CSR / CER Budget	: Rs. 2,00,000/=	
9	New or Expansion	: New	

10	Mineable Reserves	:	Cu.M.: 3,88,888.88 Cum	Tonnes: 10,50,000.00Tons
11	Mine Life	:	10 years only	
12	Manpower	:	17 Person	
13	Water Requirement	:	15.5 KLD (Drinking:0.25 KLD, Dust Suppression: 7.6 KLD, Plantation: 7.65 KLD)	
14	Water Source	:	Water will be sourced from Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption.	
15	DG Set / power	:	Nil. 20 KVA DG Set proposed	
16	Crusher	:	Not Applicable	
17	Nearest Water Body	:	Panchet Reservoir at 2.35 km South Direction	
18	Nearest Habitation	:	Badalpur 0.85 km E direction from the mine site.	
19	Nearest Rail Station	:	Pradhan Khunta Junction – 13 Km in NW direction from the ML area.	
20	Nearest Airport	:	Ranchi Airport-138 Km- SW	
21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 75 Dt- 09-01-2023	
22	Road & Highways	:	Pucca Road – 0.38KM East direction. Deuli –Khairpal Road – 9 Km- West direction. NH 19 – 11.5 KM in North direction.	

CO-ORDINATES

Geo-Coordinates of all corner points of Demarcated Block Boundary (GPS Co-ordinates) Datum: WGS 84		
Corner Point	Latitude	Longitude
1	23°41'47.21"N	86°36'51.40"E
2	23°41'48.09"N	86°36'50.19"E
3	23°41'50.62"N	86°36'52.37"E
4	23°41'52.36"N	86°36'54.20"E
5	23°41'53.35"N	86°36'54.76"E
6	23°41'52.44"N	86°36'55.29"E
7	23°41'51.00"N	86°36'55.74"E
8	23°41'50.37"N	86°36'56.68"E
9	23°41'50.07"N	86°36'54.86"E
10	23°41'48.93"N	86°36'52.11"E

LAND DETAILS :

Khata No.	Plot No.
162	41 & 42
193	43
82	44 & 46

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Dhanbad vide letter no. 178/M, dated 09.02.2023.
2	CO	:	The CO, Kaliasole (Dhanbad) vide letter no. : 66, dated 25.01.2023 has mentioned the plot no. of the project site is not recorded as "Jungle Jhari" in R.S. Khatyan & Register II.
3	DMO	:	DMO, Dhanbad vide memo no. 206/M, dated 13.02.2023 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. : 483, dated 04.03.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Dhanbad Forest Division vide letter no. : 75, dated 09.01.2023 certified that the distance of reserved / protected forest is 1200 m from proposed project site.
6	DSR	:	The DC, Dhanbad vide letter no. 205/M, dated 13.02.2023 has informed that this project is part of District Survey Report (DSR) of Dhanbad district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Gram Sabha conducted on 17.01.2023.
8	Mine Plan Approval	:	District Mining Officer, Gumla vide letter no. 186/M, dated 15.02.2023.

WORKING DETAILS

1	Mining Method	:	Opencast Mechanized Mining
2	Quarry Area	:	0.54 Ha. End of Mine – 0.66 Ha.
3	Waste Generation	:	Only in first 2 years–2400 cum End of Mine –Nil

4	Stripping Ratio	:	1:0.004
5	Working Days	:	300 days/year
6	Benches: size & No	:	6m x 6 m , No. of benches- 6
7	Elevation of Mine	:	In 205 AMSL to 203 AMSL
8	Ground Level Elevation		In 205 AMSL
9	Ultimate Working Depth	:	In 174AMSL
10	Water Table	:	In 166 AMSL and
11	Topography of Mine	:	Gently sloping area
12	Explosive Requirement	:	69 kg Per day
13	Diesel/Fuel requirement	:	HSD - 1044 liters / day (313.2 KL/year)

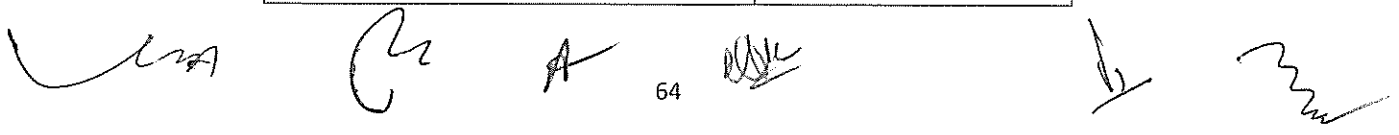
PRODUCTION DETAILS

Summary of Yearwise of Production						
Years	Production In Cum/Year	Production In Cum/Day	O.B Production in Cum/Year	Production In Tons/Year	Prod. In Tons./Day	Bench RL in meters
1st	38,888.88	129.63	1200	1,05,000.00	350.00	148-142
2nd	38,888.88	129.63	1200	1,05,000.00	350.00	148-142
3rd	38,888.88	129.63	0	1,05,000.00	350.00	142-136
4th	38,888.88	129.63	0	1,05,000.00	350.00	142-136
5th	38,888.88	129.63	0	1,05,000.00	350.00	136-130 139-136
Total	1,94,444.4		2400	5,25,000.00		Depth – 18 m

LAND USE

Existing Land Use pattern

Category	Area in Hectares
Quarry	0.00
Road	0.00
Total area in use	0.00
Balance area unused	1.18
Total Leasehold area	1.18



Proposed Land Use for Current Plan Period

Category	Area in Hectares
Quarry	0.54
Infrastructure	0.01
Garland drain	0.02
Green Belt / Safety Zone	0.51
Settling Tank	0.01
Total area in use	1.09
Remaining Area	0.09
Total Leasehold area	1.18

Land Use pattern at the Conceptual Stage i.e. end of mine

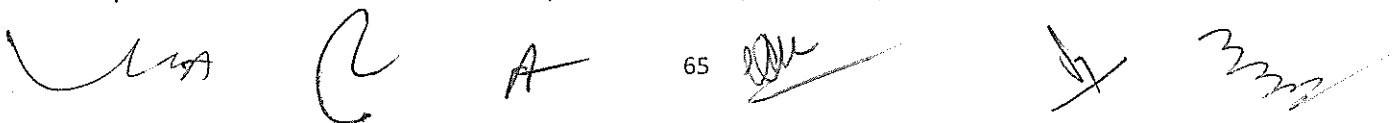
Category	Area in Hectares
Mining area converted into Water Reservoir	0.66
Approach roads	0.01
Green Belt/ Safety Zone	0.51
Total area in use	1.18
Total Leasehold area	1.18
Plantation	0.51 (43.22 % of area)

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.51 Ha	1275
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 380 meters	254Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment &


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Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Overburden Generation will be 2400 cum during the 1st and 2nd year plan period. The O.B. shall be used for backfilling in the end of life of mine of the mining operation.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:


- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:

1. Carts or tractor-trolleys will be developed on village roads.
2. Tractors-trolleys will be well maintained and PUC certified.
3. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
4. Minimum use of horns in the village area and silence zone (if any) as applicable.

Undertaking submitted affirming :

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.



- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Amit Kumar Mandal Stone Mine of Sri Amit Kumar Mandal, Mouza : Badalpur, Thana : Nirsa, Thana no. : 187, Distt. : Dhanbad, Jharkhand (1.18 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II.

- 7. Amit Kumar Mandal Stone Mine of Sri Amit Kumar Mandal, Mouza : Tentuliya, Thana : Nirsa, Thana no. : 188, Block : Keliasole, Distt. : Dhanbad, Jharkhand (1.23 Ha).

(Proposal No : SIA/JH/MIN/418816/2023).

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 23.03.2023.

Applied Area : 3.04 Acre (1.23 Ha)

Project Category : B2 – Application for Environment Clearance

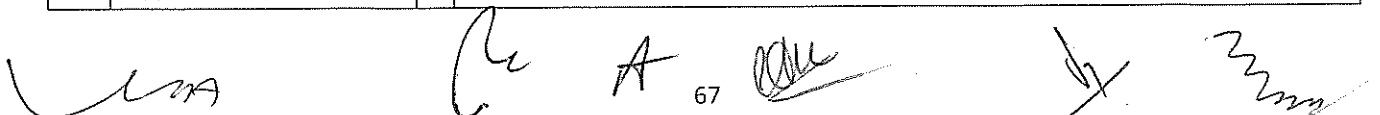
EC Application for : 71,111.11cum / year (max)

Overburden : Nil During plan period.

DG Set : 20 KVA

Project and Location Details :


Sl.	Parameter	Details	
1	Project Name	Amit Kumar Mandal Stone Mine Project type – Stone Mine	
2	Lessee:	Proprietor- Sri Amit Kumar Mandal	
3	Lease Address	Mouza: Tentuliya, Thana Nirsa, No 188, Block – Keliasole, District – Dhanbad, Jharkhand.	
4	Lease Area	Ha: 1.23	Acres: 3.04
5	Type of Land	Non-Forest – Raiyati Land	

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6	Project Cost	:	Rs. 94.60 Lakhs
7	EMP Budget	:	Capital: Rs. 6.21Lakhs Recurring: Rs. 1.64 Lakhs/ year
8	CSR / CER Budget	:	Rs. 2,20,000/=
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.:3,55,751Cu. M. Tonnes:9, 60,529
11	Mine Life	:	5 years only
12	Manpower	:	17 Person
13	Water Requirement	:	17.51 KLD (Drinking:0.30 KLD, Dust Suppression: 11 KLD, Plantation: 6.21 KLD)
14	Water Source	:	Water will be sourced from Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption
15	DG Set / power	:	Nil. 20 KVA DG Set proposed
16	Crusher	:	Not Applicable
17	Nearest Water Body	:	Panchet Reservoir at 2.84 km South Direction
18	Nearest Habitation	:	Badalpur at 0.94km East direction from the mine site.
19	Nearest Rail Station	:	Pradhan Khunta Junction at a distance of 13 km in NW direction from the ML area
20	Nearest Airport	:	Ranchi Airport at 178 Km from the mine site.
21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 56 Dt- 06-01-2023
22	Road & Highways	:	Pucca Road – 0.55 KM East direction. NH 19 – 12.3 KM in North-East direction.

CO-ORDINATES

Geo-Coordinates of all corner points of Demarcated Block Boundary (GPS Co-ordinates) Datum: WGS 84		
Corner Point	Latitude	Longitude
1	23°41'41.32"N	86°36'48.20"E
2	23°41'41.84"N	86°36'45.60"E
3	23°41'42.47"N	86°36'45.07"E
4	23°41'42.71"N	86°36'42.70"E
5	23°41'42.42"N	86°36'42.38"E
6	23°41'42.47"N	86°36'41.78"E
7	23°41'44.32"N	86°36'42.40"E
8	23°41'45.28"N	86°36'43.58"E
9	23°41'43.33"N	86°36'47.38"E
10	23°41'43.71"N	86°36'47.51"E
11	23°41'42.67"N	86°36'49.20"E



LAND DETAILS :

Khata No.	Plot No.
80	2884, 2891, 2892 & 2893
79	2886

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Dhanbad vide letter no. 177/M, dated 09.02.2023.
2	CO	:	The CO, Kaliasole (Dhanbad) vide letter no. : 67, dated 25.01.2023 has mentioned the plot no. of the project site is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Dhanbad vide memo no. 207/M, dated 13.02.2023 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. : 482, dated 04.03.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Dhanbad Forest Division vide letter no. : 56, dated 06.01.2023 certified that the distance of reserved / protected forest is 1300 m from proposed project site.
6	DSR	:	The DC, Dhanbad vide letter no. 205/M, dated 13.02.2023 has informed that this project is part of District Survey Report (DSR) of Dhanbad district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Gram Sabha conducted on 17.01.2023.
8	Mine Plan Approval	:	District Mining Officer, Gumla vide letter no. 187/M, dated 15.02.2023.

WORKING DETAILS

1	Mining Method	:	Opencast Mechanized Mining
2	Quarry Area	:	0.87 ha End of Mine – 0.87 Ha.
3	Waste Generation	:	Nil End of Mine – Nil
4	Stripping Ratio	:	NA
5	Working Days	:	300 days/year

6	Benches: size & No	:	6m x 6 m , No.- 5
7	Elevation of Mine	:	203 AMSL to 201 AMSL
8	Ground Level Elevation		In 201 AMSL
9	Ultimate Working Depth	:	In 176 AMSL
10	Water Table	:	In 166 AMSL and
11	Topography of Mine	:	Gently sloping area
12	Explosive Requirement	:	72 Kg/day
13	Diesel/Fuel requirement	:	HSD - 1172 liters / day (351.6 KL/year)

PRODUCTION DETAILS

Summary of Yearwise of Production						
Years	Production In Cum/Year	Production In Cum/Day	O.B Production in Cum/Year	Production In Tons/Year	Prod. In Tons./Day	Bench RL in meters
1st	71111.11	237.04	0	192000.00	640.00	151-144
2nd	71111.11	237.04	0	192000.00	640.00	151-144 144-138
3rd	71111.11	237.04	0	192000.00	640.00	144--138
4th	71111.11	237.04	0	192000.00	640.00	138-132
5th	71111.11	237.04	0	192000.00	640.00	132-126 126-120
Total	355555.55	-	0	960000	-	Depth - 31 m

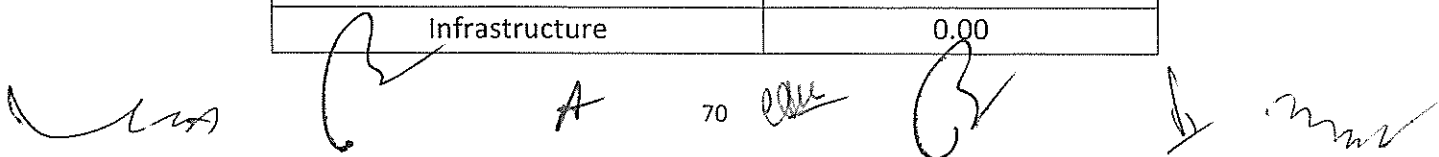
LAND USE

Existing Land Use pattern

Category	Area in Hectares
Quarry	0.00
Road	0.00
Total area in use	0.00
Balance area unused	1.23
Total Leasehold area	1.23

Proposed Land Use for Current Plan Period

Category	Area in Hectares
Quarry	0.87
Infrastructure	0.00


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Approach roads	0.01
Garland drain	Nil
Green Belt	0.35
Settling Tank	Nil
Area which will remain untouched	Nil
Total Leasehold area	1.23

Land Use pattern at the Conceptual Stage i.e. end of mine

Category	Area in Hectares
Mining area converted into Water Reservoir	0.87
Approach roads	0.01
Green Belt	0.35
Total Leasehold area	1.23
Plantation	0.35 (28.46 % of area)

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.35 Ha	875
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 0.55 km	367 Tree both side approach road.

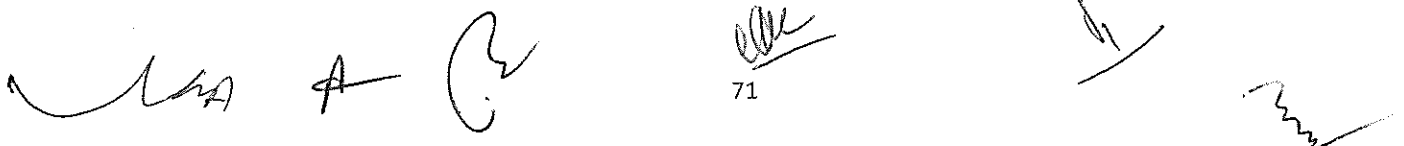
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Overburden Generation will be Nil during the plan period.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.



Air and Noise Pollution Control Measures:

- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

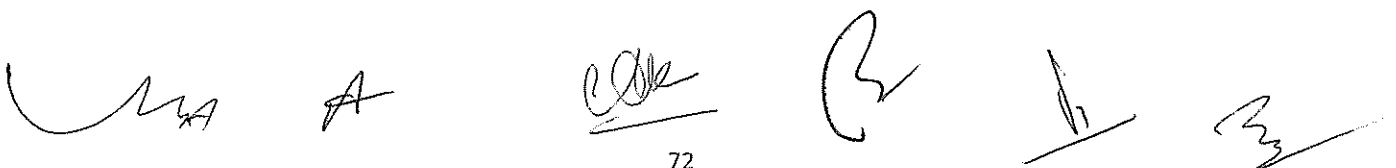
As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:

1. Carts or tractor-trolleys will be developed on village roads.
2. Tractors-trolleys will be well maintained and PUC certified.
3. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
4. Minimum use of horns in the village area and silence zone (if any) as applicable.

Undertaking submitted affirming :

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Amit Kumar Mandal Stone Mine of Sri Amit Kumar Mandal, Mouza : Tentuliya, Thana : Nirsa, Thana no. : 188, Block : Keliasole, Distt. : Dhanbad, Jharkhand (1.23 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II.



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8. Binay Kumar Mandal Project (Stone Mine) of Sri Binay Kumar Mandal, Mouza : Lakhipur & Bhursa, Block : Keliasole (Nirsa), Distt. : Dhanbad, Jharkhand (1.52 Ha).

(Proposal No : SIA/JH/MIN/422379/2023).

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 23.03.2023.

Applied Area : 3.75 ACRES (1.52Ha.)

Project Category : B2 – Application for Environment Clearance

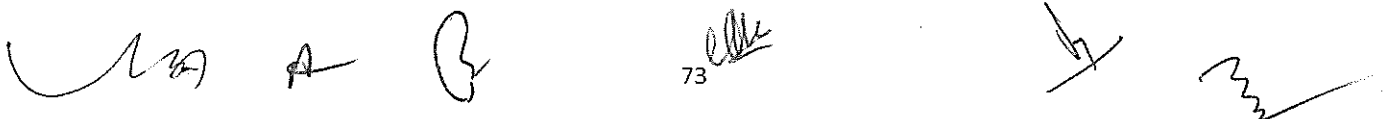
EC Application for : 43888.88 cum / year (max)

Overburden : Nil during plan period.

DG Set : 20 KVA

Project and Location Details :

Sl.	Parameter	Details	
1	Project Name	Binay Kumar Mandal Project type – Stone Mine	
2	Lessee:	Proprietor- Sri Binay Kumar Mandal	
3	Lease Address	Mouza: Mouza/Village: Lakhipur & Bhursa, Block - Keliasole (Nirsa), District – Dhanbad, Jharkhand.	
4	Lease Area	Ha: 1.52	Acres: 3.75
5	Type of Land	Non-Forest – Rayati Land	
6	Project Cost	Rs. 96.20 Lakhs	
7	EMP Budget	Capital: Rs. 15.37 Lakhs	Recurring: Rs. 1.94 Lakhs/ year
8	CSR / CER Budget	Rs. 2,00,000/=	
9	New or Expansion	New	
10	Mineable Reserves	Cu.M.: 4,37,407.40Cu. M.	Tonnes:11,81,000.00
11	Mine Life	9.96 years only	
12	Manpower	20 Person	
13	Water Requirement	48.07 KLD (Drinking:0.30 KLD, Dust Suppression: 32.4 KLD, Plantation: 15.37 KLD)	
14	Water Source	Water will be sourced from Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption.	
15	DG Set / power	20 KVA DG Set proposed	
16	Crusher	Not Applicable	
17	Nearest Water Body	Panchet Reservoir at 5.6 km South Direction	
18	Nearest Habitation	Lakhipur at 0.94km North-East direction from the mine site.	
19	Nearest Rail Station	Keliasol Railway Station at 5 Km in North-East direction from the	

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			ML area direction from the mine site.
20	Nearest Airport	:	Birsa Munda Airport, Ranchi-140 Km in W direction.
21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 1460 Dt- 28-06-2022
22	Road & Highways	:	Pucca Road – 0.1.62KM NE direction. NH 19– 9 KM in NE direction.

CO-ORDINATES

Geo-Coordinates of all corner points of Demarcated Block Boundary (GPS Co-ordinates) Datum: WGS 84		
Corner Point	Latitude	Longitude
1	23°43'46.18"N	86°37'35.02"E
2	23°43'47.00"N	86°37'33.29"E
3	23°43'48.82"N	86°37'34.99"E
4	23°43'49.27"N	86°37'34.18"E
5	23°43'49.61"N	86°37'34.34"E
6	23°43'50.13"N	86°37'33.16"E
7	23°43'50.89"N	86°37'33.19"E
8	23°43'51.58"N	86°37'32.82"E
9	23°43'51.24"N	86°37'34.28"E
10	23°43'50.45"N	86°37'33.92"E
11	23°43'50.25"N	86°37'35.31"E
12	23°43'51.59"N	86°37'34.83"E
13	23°43'52.10"N	86°37'33.23"E
14	23°43'53.43"N	86°37'33.83"E
15	23°43'53.28"N	86°37'34.18"E
16	23°43'53.02"N	86°37'34.07"E
17	23°43'52.39"N	86°37'36.25"E
18	23°43'52.36"N	86°37'37.34"E
19	23°43'51.15"N	86°37'37.44"E
20	23°43'48.90"N	86°37'36.79"E
21	23°43'46.84"N	86°37'36.11"E

LAND DETAILS :







Khata No.	Plot No.
31 (Lakhipur)	437 (P)
92 (Bhursa)	124, 125, 127, 128, 129 & 130 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Dhanbad vide letter no. 3389/M, dated 29.12.2022.
2	CO	:	The CO, Kaliasole (Dhanbad) vide letter no. : 208, dated 12.05.2022 has mentioned the plot no. of the project site is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Dhanbad vide memo no. 149/M, dated 30.01.2023 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. : 166 & 167, dated 24.01.2023 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Dhanbad Forest Division vide letter no. : 1460, dated 28.06.2022 & letter no. : 599, dated 03.03.2023 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC, Dhanbad vide letter no. 205/M, dated 13.02.2023 has informed that this project is part of District Survey Report (DSR) of Dhanbad district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	BDO, Kaliasole vide letter no. 992, dated 10.08.2022 informed that Gram Sabha conducted on 06.08.2022.
8	Mine Plan Approval	:	District Mining Officer, Gumla vide letter no. 258/M, dated 13.03.2023.

WORKING DETAILS

1	Mining Method	:	Opencast Mechanized Mining	
2	Quarry Area	:	0.88 ha	End of Mine – 0.98 years
3	Waste Generation	:	Nil	End of Mine – Nil
4	Stripping Ratio	:	NA	
5	Working Days	:	300 days/year	
6	Benches: size & No	:	6m x 6 m ,	
7	Elevation of Mine	:	216 AMSL – 214 AMSL	
8	Ground Level Elevation	:	In 214 AMSL	
9	Ultimate Working Depth	:	In 196 AMSL	

10	Water Table	:	In 186 MSL and
11	Topography of Mine	:	Gently sloping area
12	Explosive Requirement	:	69 kg Per day
13	Diesel/Fuel requirement	:	HSD - 1360 liters / day (408 KL/year)

PRODUCTION DETAILS

Summary of Yearwise of Production						
Years	Production In Cum/Year	Production In Cum/Day	O.B Production in Cum/Year	Production In Tons/Year	Prod. In Tons. /Day	Bench RL in meters
1st	43888.88	146.29	0	118500.00	395.00	158-152
2nd	43888.88	146.29	0	118500.00	395.00	158-152
3rd	43888.88	146.29	0	118500.00	395.00	158-152
4th	43888.88	146.29	0	118500.00	395.00	152-146
5th	43888.88	146.29	0	118500.00	395.00	152-146
Total	2,19,444.4	-	0	5,92,500	-	Depth – 12 m

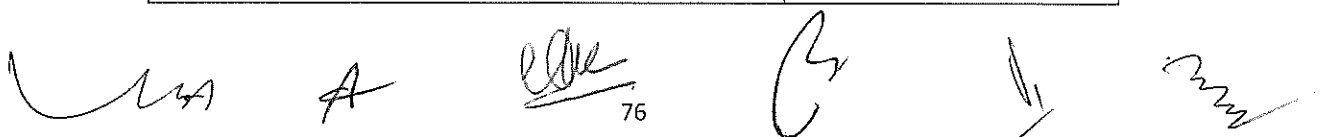
LAND USE

Existing Land Use pattern

Type of land use	Area (Ha)
Mining area	0.00
Infrastructure	0.00
Approach roads	0.00
Garland drain	0.00
Green Belt	0.00
Settling Tank	0.00
Area which will remain untouched	1.52
Total	1.52

Proposed Land Use for Current Plan Period

Type of land use	Area (Ha)
Mining area converted into water reservoir	0.88
Infrastructure	0.01
Approach roads	0.01
Garland drain	0.08
Green Belt	0.53
Settling Tank	Nil
Area which will remain untouched	0.01
Total	1.52



Land Use pattern at the Conceptual Stage i.e. end of mine

Type of land use	Area (Ha)
Mining area converted into water reservoir	0.98 (Water body)
Approach roads	0.01
Green Belt	0.53 (Plantation)
Total	1.52

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.53 Ha	1325
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 1.62km	1750Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Overburden Generation will be Nil during the plan period. The O.B. shall be used for backfilling in the end of life of mine of the mining operation.

Water Pollution Control Measures:

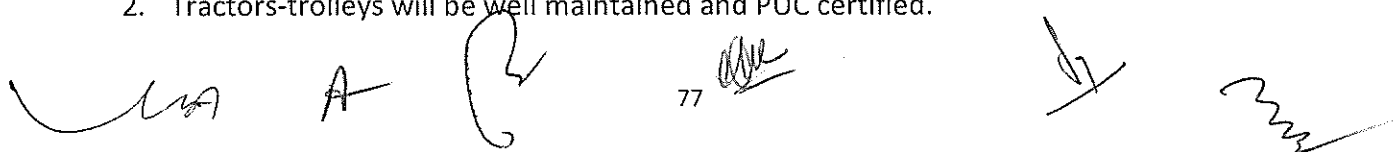
- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:

1. Carts or tractor-trolleys will be developed on village roads.
2. Tractors-trolleys will be well maintained and PUC certified.

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3. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
4. Minimum use of horns in the village area and silence zone (if any) as applicable.

Undertaking submitted affirming :

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Binay Kumar Mandal Project (Stone Mine) of Sri Binay Kumar Mandal, Mouza : Laxhipur & Bhursa, Block : Keliasole (Nirsa), Distt. : Dhanbad, Jharkhand (1.52 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II.

9. Saharpur Stone Mine of M/s Jai Maa Tara Stone Product (Prop. : Sri Binod Prasad Bhagat), Village : Saharpur, Thana : Shikaripara, Thana no. : 12, Distt. : Dumka, Jharkhand (2.73 Ha).

(Proposal No : SIA/JH/MIN/422497/2023).

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 23.03.2023.

Applied Area : 6.73 ACRES (2.73Ha.)

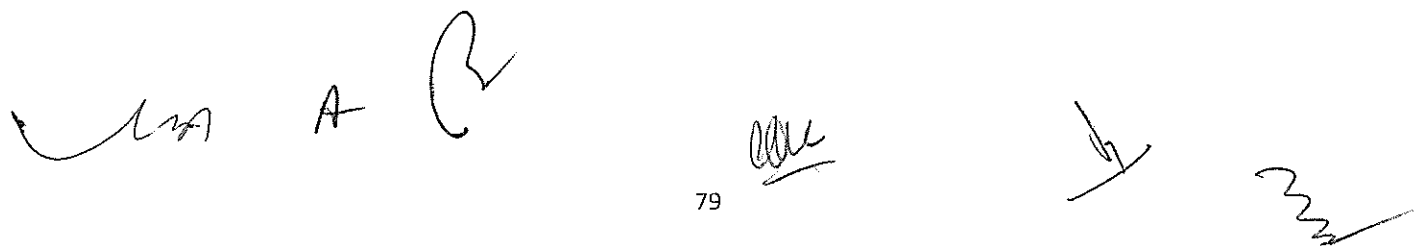
Project Category : B2 – Application for Environment Clearance


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EC Application for : 531645 TPA (Boulder Stone) along with Crusher of 200 TPH
 Overburden : 21,694 cum during plan period.
 DG Set : 20 KVA
 Crusher- Mobile Crusher (200 TPH)

Project and Location Details :

Sl.	Parameter	Details
1	Project Name	: Saharpur Stone Mine Project Type – Stone Mine & Mobile Crusher (200 TPH)
2	Lessee:	: Proprietor- Binod Prasad Bhagat
3	Lease Address	: Village- Saharpur, Thana- Shikaripara, Thana No.- 12, District- Dumka, Jharkhand.
4	Lease Area	: Ha:2.73 Acres: 6.73
5	Type of Land	: Non-Forest – Raiyati Land
6	Project Cost	: Rs. 184.20 Lakhs
7	EMP Budget	: Capital: Rs. 16.21 Lakhs Recurring: Rs. 2.24 Lakhs/ year
8	CSR / CER Budget	: Rs. 4,70,000/=
9	New or Expansion	: New
10	Mineable Reserves	: Tonnes: 14,09,685 Tons
11	Mine Life	: 5 years only
12	Manpower	: 56 Person
13	Water Requirement	: 46.25 KLD (Nearly Five Water Tanker of Capacity 10 KLD will be required in one day)
14	Water Source	: Water will be sourced from Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption.
15	DG Set / power	: 20 KVA DG Set proposed
16	Crusher	: Mobile Crusher (200 TPH)
17	Nearest Water Body	: Brahmani River – 7.00 km - North
18	Nearest Habitation	: Saharpur
19	Nearest Rail Station	: Pakdaha Harsingh Railway Station at a distance of 5.67 km in NW direction
20	Nearest Airport	: Birsa Munda Airport, Ranchi-257.59 Km in SW direction..
21	Nearest Forest	: More than 250 m, as per forest division. Letter no - 2766 Dt- 18-08-2017
22	Road & Highways	: Manjhladih Village Road – 1.46 KM N direction. NH-114 A (Dumka-Rampurhat road) – 3.25 Km in North directon


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CO-ORDINATES

Geo-Coordinates of all corner points of Demarcated Block Boundary (GPS Co-ordinates) Datum: WGS 84		
Corner Point	Latitude	Longitude
1	24°11'13.03" N	87°34'31.62" E
2	24°11'12.99" N	87°34'28.87" E
3	24°11'16.03" N	87°34'27.22" E
4	24°11'16.94" N	87°34'25.54" E
5	24°11'17.65" N	87°34'24.92" E
6	24°11'22.25" N	87°34'25.92" E
7	24°11'21.79" N	87°34'27.78" E
8	24°11'21.49" N	87°34'28.16" E
9	24°11'21.54" N	87°34'28.67" E
10	24°11'19.57" N	87°34'28.76" E
11	24°11'19.14" N	87°34'28.21" E
12	24°11'17.83" N	87°34'28.23" E
13	24°11'16.57" N	87°34'28.16" E
14	24°11'16.38" N	87°34'31.12" E
15	24°11'16.49" N	87°34'31.19" E
16	24°11'16.42" N	87°34'33.02" E
17	24°11'15.46" N	87°34'32.96" E
18	24°11'15.29" N	87°34'32.48" E
19	24°11'15.21" N	87°34'32.19" E
20	24°11'15.10" N	87°34'31.78" E
21	24°11'13.86" N	87°34'31.71" E

LAND DETAILS :

J.B. No.	Plot No.
30	21 & 24(P)
52	22

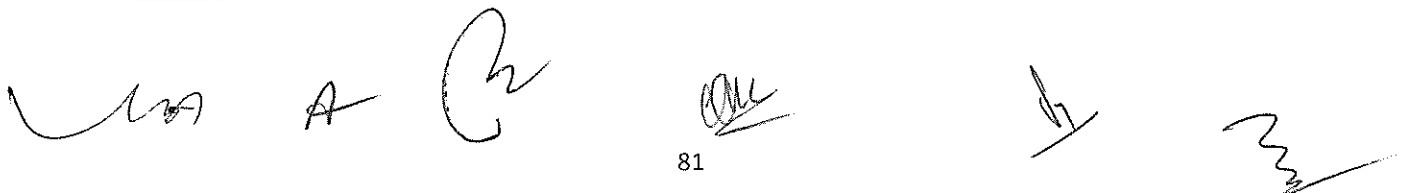
STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO, Dumka vide letter no. 982/M, dated 24.08.2019.
2	CO	:	The CO, Shikaripara vide letter no. : 1237/Ra, dated 12.12.2019 has mentioned the plot no. of the project site is not recorded as "Jungle Jhari" in R.S. Khatiyar & Register II.

3	DMO	:	DMO, Dumka vide memo no. 873/M, dated 25.02.2023 certified that no other mining lease area exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. : 2688, dated 09.12.2019 certified that the proposed project site is outside Eco Sensitive Zone of Udhawa Lake Bird Sanctuary.
5	DFO Forest Distance	:	DFO, Dumka Forest Division vide letter no. : 2766, dated 18.08.2017 certified that the distance of reserved / protected forest is 1192 m from proposed project site.
6	DSR	:	The DC – cum – District Magistrate, Dumka vide letter no. 683/Khanan, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) of Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Gram Sabha conducted on 05.02.2017.
8	Mine Plan Approval	:	Additional Director, Geology, Hazaribag vide letter no. G/2022-23-678, dated 09.09.2022.

WORKING DETAILS

1	Mining Method	:	Opencast Mechanized Mining
2	Quarry Area	:	Current plan period- 1.96 ha End of Mine – 1.96 years
3	Waste Generation	:	21,694 cum. End of Mine –21,694 cum.
4	Stripping Ratio	:	1:0.02
5	Working Days	:	300 days/year
6	Benches: size & No	:	6m x 6 m
7	Elevation of Mine	:	205 AMSL
8	Ground Level Elevation	:	In 205 AMSL
9	Ultimate Working Depth	:	In 175 AMSL
10	Water Table	:	In 166 MSL and
11	Topography of Mine	:	Gently sloping area
12	Explosive Requirement	:	69.2 kg Per day
13	Diesel/Fuel requirement	:	HSD - 2220 liters / day (666 KL/year)



PRODUCTION DETAILS

Years	O.B Production in Cum/Year	Production In Tons/Year	Bench RL in meters
1st	21,694	531645	151-137
2nd	-	370089	135-125
3rd	-	343380	136-122
4th	-	65550	125-121
5th	-	62532	122-117
Total	21,694	1373196	Depth – 34 m

LAND USE

Existing Land Use pattern

SL	Pattern	Existing Land Use (Ha)
1	Mining Area	0.61
2	Office	0.00
3	Dump	0.00
4	Road	0.00
5	Proposed Crusher	0.00
6	Garland Drain	0.00
7	Safety Zone/ Settling Tank	0.00
8	Unutilized	2.12
	TOTAL	2.73

Proposed Land Use for Current Plan Period

SL	Pattern	Proposed Current Plan Period (Ha)
1	Mining Area	1.96
2	Office	0.01
3	Road	0.02
4	Proposed Crusher	0.10
5	Garland Drain	0.63
6	Safety Zone/ Safety Zone	0.01
7	Unutilized	0.00
	TOTAL	2.73

Land Use pattern at the Conceptual Stage i.e. end of mine

SL	Pattern	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	1.96	Water Body
2	Office	0.01	Plantation
3	Road	0.02	Water Body
4	Proposed Crusher	0.10	Crusher
5	Garland Drain/Settling Tank	0.01	-
6	Safety Zone/ Green Belt	0.63	Plantation
7	Settling Tank		
8	Unutilized	0.00	-
	TOTAL	2.73	-

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.64 Ha	1600
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 1.46 km + 1 Km.	1642 Tree both side approach road.

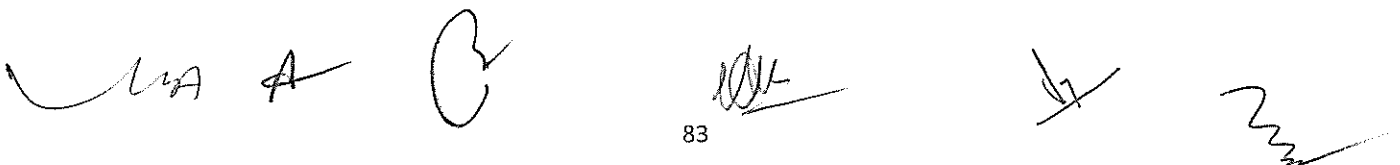
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Overburden Generation will be 21,694 cum during the plan period. The O.B. shall be used for backfilling in the end of life of mine of the mining operation.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.



- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:

1. Carts or tractor-trolleys will be developed on village roads.
2. Tractors-trolleys will be well maintained and PUC certified.
3. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
4. Minimum use of horns in the village area and silence zone (if any) as applicable.

Undertaking submitted affirming :

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Saharpur Stone Mine of M/s Jai Maa Tara Stone Product (Prop. : Sri Binod Prasad Bhagat), Village : Saharpur, Thana : Shikaripara, Thana no. : 12, Distt. : Dumka, Jharkhand (2.73 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II.





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10. Paharpur Stone Mine of Shri Arun Kumar Sah, Village : Paharpur, Thana : Shikaripara, Thana no. : 13, Distt. : Dumka, Jharkhand (1.61 Ha).

(Proposal No : SIA/JH/MIN/ 418807/2023).

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 23.03.2023.

Applied Area : 3.97 ACRES (1.61Ha.)

Project Category : B2 – Application for Environment Clearance

EC Application for : 90680 cum / year (max)

Overburden : 20,217 Cum during plan period.

DG Set : 20 KVA

Project and Location Details :

Sl.	Parameter	Details	
1	Project Name	Paharpur Stone Mine Project Type – Stone Mine	
2	Lessee:	Proprietor- ShriArun Kumar Sah	
3	Lease Address	Village/Mouza-Paharpur, Thana-Shikaripara, Thana No.- 13, District-Dumka, State-Jharkhand	
4	Lease Area	Ha: 1.61	Acres: 3.97
5	Type of Land	Non-Forest – Raiyati Land	
6	Project Cost	Rs. 141.35 Lakhs	
7	EMP Budget	Capital: Rs. 9.70 Lakhs	Recurring: Rs. 1.99 Lakhs/ year
8	CSR / CER Budget	Rs. 1,75,000/=	
9	New or Expansion	New	
10	Mineable Reserves	Cu.M.: 4,26,092.06 Cu. M.	Tonnes: 12,35,667 Tons
11	Mine Life	4.69 Years say 5 Years	
12	Manpower	41 Person	
13	Water Requirement	31.72 KLD (Drinking:0.615 KLD, Dust Suppression: 21.4 KLD, Plantation: 9.7 KLD	
14	Water Source	Water will be sourced from Water Tankers, to be purchased locally for Dust Suppression, Plantation, Drinking and Domestic Consumption.	
15	DG Set / power	Nil. 20 KVA DG Set proposed	
16	Crusher	Not Applicable	
17	Nearest Water Body	Brahmani River – 7.00 km- North	
18	Nearest Habitation	Paharpur at 2.15 km from the mine site.	
19	Nearest Rail Station	Pinargaria Railway station – 6.20 km - NE	
20	Nearest Airport	Kazi Nazrul Islam Airport – 72.50 km-SW	

21	Nearest Forest	:	More than 250 m, as per forest division. Letter no – 2403 Dt- 17-11-2020
22	Road & Highways	:	Pakka Road – 0.07 Km - North NH-114A – 2.87 Km - North

CO-ORDINATES

Geo-Coordinates of all corner points of Demarcated Block Boundary (GPS Co-ordinates) Datum: WGS 84		
Corner Point	Latitude	Longitude
1	24°11'21.06" N	87°35'05.58" E
2	24°11'22.26" N	87°35'05.00" E
3	24°11'22.54" N	87°35'03.88" E
4	24°11'25.18" N	87°35'03.05" E
5	24°11'27.02" N	87°35'03.81" E
6	24°11'26.88" N	87°35'04.42" E
7	24°11'25.37" N	87°35'06.47" E
8	24°11'26.46" N	87°35'07.19" E
9	24°11'25.92" N	87°35'08.30" E
10	24°11'23.69" N	87°35'07.57" E
11	24°11'21.52" N	87°35'06.67" E

LAND DETAILS :

Khata No.	Plot No.
19	960 (P) & 961
04	962
23	963, 964, 965 & 966

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (Lol) has been issued by DMO, Dumka vide letter no. 574/M, dated 03.04.2021.
2	CO	:	The CO, Shikaripara vide letter no. : 975/Ra, dated 22.10.2020 has mentioned the plot no. of the project site is not recorded as "Jungle Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Dumka vide memo no. 3032/M, dated 26.11.2020 certified that 01 other mining lease area (3.43 Acre) exists within 500 m






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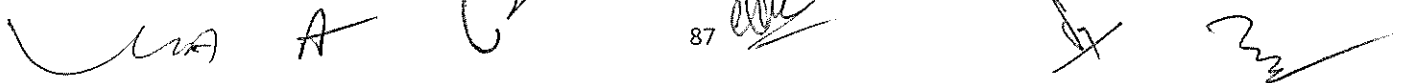
		radius from proposed project site and total area is 7.40 acre.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. : 340, dated 20.02.2021 certified that the proposed project site is outside Eco Sensitive Zone of Udhawa Lake Bird Sanctuary.
5	DFO Forest Distance	: DFO, Dumka Forest Division vide letter no. : 2403, dated 17.11.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	: The DC – cum – District Magistrate, Dumka vide letter no. 683/Khanan, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) of Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: Gram Sabha conducted on 13.08.2020.
8	Mine Plan Approval	: Additional Director, Geology, Hazaribag vide letter no. G/2022-23-671, dated 08.09.2022.

WORKING DETAILS

1	Mining Method	: Opencast Mechanized Mining
2	Quarry Area	: 1.09 ha End of Mine – 1.09 years
3	Waste Generation	: 20,217 Cum. End of Mine – 20,217 Cum.
4	Stripping Ratio	: 1:0.02
5	Working Days	: 300 days/year
6	Benches: size & No	: 5 m x 5m, No.- 6 benches
7	Elevation of Mine	: 184 – 180 AMSL
8	Ground Level Elevation	: 180 AMSL
9	Ultimate Working Depth	: 153 AMSL
10	Water Table	: 145 AMSL and
11	Topography of Mine	: Gently sloping area
12	Explosive Requirement	: 33.4 kg Per day
13	Diesel/Fuel requirement	: HSD – 1364 liters / day (409.2 KL/year)

PRODUCTION DETAILS

Summary of Yearwise of Production						
Years	Production In Cum/Year	Production In Cum/Day	O.B Production in Cum/Year	Production In Tons/Year	Prod. In Tons./Day	Bench RL in meters


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1st	79,380	264.6	20,217	2,30,202	767.34	128-122
2nd	90,680	302.26	0	2,62,972	876.57	123-117
3rd	79,563.10	265.21	0	2,30,733	769.11	118--112
4th	82,914.13	276.37	0	2,40,451	801.50	113-103
5th	73,337.93	244.45	0	2,12,680	708.93	108-97
Total	4,05,875.17		20,217	11,77,038		Depth – 31 m

LAND USE

Existing Land Use pattern

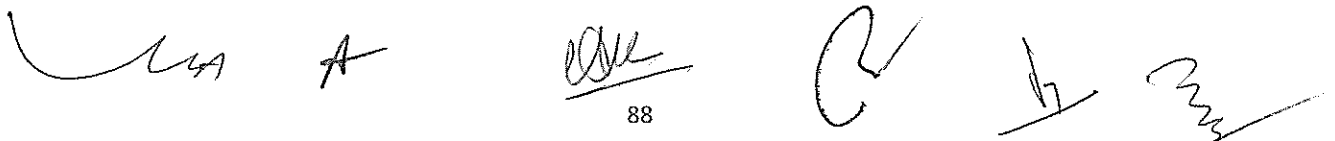
Category	Area in Hectares
Quarry	0.00
Road	0.00
Total area in use	0.00
Balance area unused	1.61
Total Leasehold area	1.61

Proposed Land Use for Current Plan Period

Category	Area in Hectares
Mining Area	1.09
Office	0.01
Dump	0.03
Road	0.02
Safety Zone/ Green Belt	0.40
Garland Drain + Settling Tank	0.01
Unutilized	0.05
TOTAL	1.61

Land Use pattern at the Conceptual Stage i.e. end of mine

Category	Area in Hectares
Mining Area	1.09 (Water Body
Office + Dump+ Road+ Safety Zone+ Unutilized area	0.49
TOTAL	1.61



ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Green Belt & Other reclaimed area	:	0.49 Ha	1225
2	Haul /Approach Road	:	0.07 Km. + 1 Km.	663 Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two-rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

- Overburden Generation will be 20,217 cum during the plan period. O.B.Dump area is 0.03ha. The O.B. shall be used for backfilling in the end of life of mine of the mining operation.

Water Pollution Control Measures:

- Mining operation will be restricted to the depth of 30m from surface level.
- Quality of dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

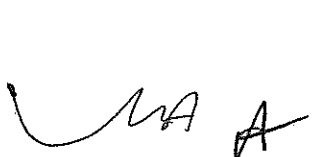
- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

As the only impact is due to transportation of soil through village roads, emphasis will be given on the following points:

1. Carts or tractor-trolleys will be developed on village roads.
2. Tractors-trolleys will be well maintained and PUC certified.
3. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
4. Minimum use of horns in the village area and silence zone (if any) as applicable.

Undertaking submitted affirming :

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.



- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Paharpur Stone Mine of Shri Arun Kumar Sah, Village : Paharpur, Thana : Shikaripara, Thana no. : 13, Distt. : Dumka, Jharkhand (1.61 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II.

11. Gadwa Stone Deposit of M/s Mahalaxmi Crusher and Logistics (Prop. : Shri Sanjay Prasad Yadav), Mouza : Gadwa, P.O. : Sakrigali, P.S : Taljhari, Dist. : Sahebganj, Jharkhand (2.832 Ha).

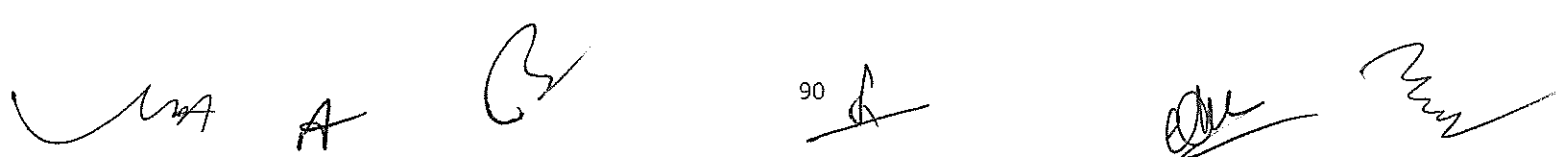
(Proposal No. : SIA/JH/MIN/ 422560/2023).

This is a new project which has been taken for appraisal on 23.03.2023.

Project Category : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 93rd meeting held on 18.02.2022 to 27.02.2022 and SEIAA, Jharkhand has approved the ToRs in 94th meeting held on 13th, 14th & 15th April, 2022. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2021-22/2554/2021/46, date 16.04.2022. The final EIA / EMP submitted by PP to SEIAA on 17.03.2023 and which was forwarded to SEAC on 18.03.2023.

EC Application for: Boulder Stone : 67,792 Cu.M. / year i.e. 1,69,480 TPA
DG Set : 20 KVA

Name of the consultant : Sathi Planners Pvt. Ltd., Ranchi



PROJECT and LOCATION Details:

Sl	Parameter	Details	
1	Project Name	Gadwa Stone Deposit Project Type – Stone Mine & Crusher (100 TPH Capacity)	
2	Lessee:	M/s Mahalaxmi Crusher and Logistics Partner – Shri Sanjay Prasad Yadav & Others	
3	Lease Address	Village – Gadwa, P.O.- Sakrigali, P.S.- Taljhari, Dist. – Sahibganj, State – Jharkhand	
4	Lease Area	Ha: 2.832 ha	Acres: 7.00 Acres
	Type of Land	Non Forest – Rayati Land	
6	Project Cost	Capital Cost – 87.55 Lakhs	
7	EMP Budget	Capital: 24.03 Lakhs	Recurring: NA
8	CSR / CER Budget	14 Lakhs	
9	New or Expansion	New Project	
10	Mineable Reserves	Cu.M.: 6,77,920S Cu. M.	Tonnes: 16,94,800 Tonnes
11	Mine Life	10 Years	
12	Man power	37	
13	Water Requirement	33.76 KLD (Drinking:0.56 KLD, Dust Suppression: 14.40 KLD, Plantation: 18.8 KLD)	
14	Water Source	<ul style="list-style-type: none"> Water will be Sourced from Abandon Mine for Dust Suppression and Plantation. Water will be sourced from Bore Well (within lease area) for Drinking and Domestic Consumption. 	
15	DG Set / power	25 KVA DG Set proposed	
16	Crusher	Crusher (100 TPH Capacity)	
17	Nearest Water Body	Ganga River 2.80 KM	
18	Nearest Habitation	Gadwa Village: 0.50 Km, Sahebganj 7.57 KM	
19	Nearest Rail Station	Sakrigali Railway Station- 2.26 Km (aerial distance) –NW	
20	Nearest Air Port	Kazi Nazrul Islam Airport – 184.34 km – SW	
21	Nearest Forest	Dense mixed Jungle – 4.80 Km	
22	Road & Highways	NH 80 – 1.80 Km in NE direction.	

CO-ORDINATES

Geo-Coordinates		
Corner Point	Longitude	Latitude
1	25° 13' 21.73" N	87° 43' 10.70" E
2	25° 13' 25.17" N	87° 43' 07.49" E
3	25° 13' 30.51" N	87° 43' 13.83" E
4	25° 13' 28.92" N	87° 43' 15.23" E

Land Details :

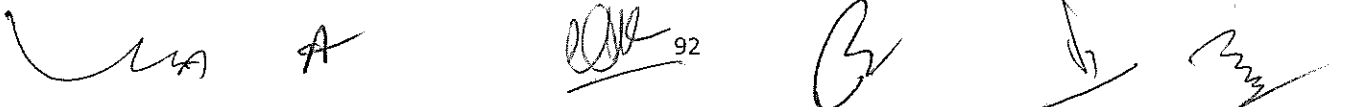
Mouza	Khata No.	Plot No.
Gadwa	01	44 (P)

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj vide letter no. 107 /M dated 03.02.2020
2	CO	:	The CO, Taljhari vide letter no. 262, dated 29.05.2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Sahebganj vide memo no. 2045/M, dated 03.11.2018 certified that 04 other lease area (11.00 acre, 5.76 acre, 12.30 acre and 25.00 acre) exists within 500 m radius from proposed project site and total area is more than 5 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 397, dated 17.02.2020 certified that the proposed project site is outside Eco Sensitive Zone of Udhawa Lake Bird Sanctuary.
5	DFO Forest Distance	:	DFO, Sahebganj Division vide memo no. 2364, dated 18.12.2018 certified that the distance of forest is 253 m from proposed project site.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Sahebganj district.
7	Gram Sabha	:	Gram Sabha conducted on 23.07.2018
8	Mine Plan Approval	:	DMO, Sahebganj vide letter no. 594 , dated 08.05.2020
9	Public Hearing	:	JSPCB vide letter no. PC/PH/DMK/16/2022/B-2374, dated 17.11.2022 informed that Public Hearing conducted on 22.12.2022.

Working Details

1	Mining Method	:	Semi Mechanised. Wagon Drilling & Blasting to be used	
2	Quarry Area	:	5 years – 2.190 Ha	End of Mine – 2.215 Ha
3	Waste Generation	:	5 years– 68,970 Cu.M	Life of Mine (Waste Gen.) – 68,970 Cu.M
4	Stripping Ratio	:	1:0.08	

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5	Working Days	:	300
6	Benches: size & No	:	6 m x more than 6 m, Bench No.- 1 to 11
7	Elevation of Mine	:	Maximum Elevation of M.L. area – 316 m AMSL Minimum Elevation of M.L. area - 293 m AMSL
8	Ground Level Elevation	:	293 AMSL
9	Ultimate Working Depth	:	252 AMSL
10	Water Table	:	244 AMSL (49 m bgl)
11	Topography of Mine	:	Steep Slope
12	Explosive Requirement	:	21 Tons/year
13	Diesel/Fuel requirement	:	486 KL/year (145.80 Litres/day)

Production Details :

Year	Production of Stone in Tons/ Year	Production of Stone in Cum / Year	Waste (cum)	Bench RL in meters
1 st	1,69,375	67,750	34,770	260-244
2 nd	1,69,450	67,780	11,400	250-238
3 rd	1,69,480	67,792	12,350	244-232
4 th	1,69,480	67,792	Nil	238-232
5 th	1,69,480	67,792	10,450	238-202
Total	8,47,265	3,38,906	68,970	Depth (Plan Period) – 58 metre

Land Use

Existing Land Use pattern

Category	Area in Hectares
Quarry	0.00
Road	0.015
Total area in use	0.015
Balance area unused	2.817
Total Leasehold area	2.832

Proposed Land Use for Current Plan Period

Category	Area in Hectares
Quarry	2.190
Proposed Crusher	0.115
Road	0.007
Safety Zone	0.495
Total area in use	2.807

Balance Area	0.025
Total Leasehold area	2.832

Land Use pattern at the Conceptual Stage i.e. end of mine

Category	Area in Hectares
Quarry	2.215 Plantation – 0.409 Ha.(After Reclamation) Water Body – 1.806 Ha.
Proposed Crusher	0.115 (Plantation)
Safety Zone	0.495 (Plantation)
Road	0.007 (Plantation)
Total area in use	2.832
Total Leasehold area	2.832
Plantation (Safety Zone, Crusher Area, Haul Road, Reclaimed area)	1.026 Ha. (36.22 % of the lease area)

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.495 ha	1,238 trees @ 2500 trees per ha
2	Other Reclaimed area	: 0.531 Ha.	1,327 trees @2500 trees per Ha.
3	Haul /Approach Road	: 1.80 KM	1200 trees on both sides – 3 m distance

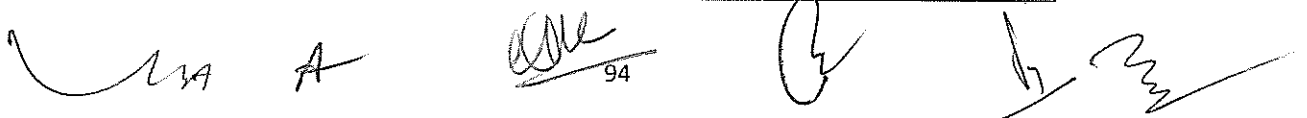
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Waste Generation

A total of 68,970 Cum of wastes (Over Burden) will be generated from entire Gadwa Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below :

Generation of Waste during Planned Period

Year	Waste Generation, In Cum
1 st Year	34,770.00
2 nd Year	11,400.00



Year	Waste Generation, In Cum
3 rd Year	12,350.00
4 th Year	0
5 th Year	10,450.00
Total	68,970.00

Source: Mining Plan

Disposal of Waste from the Quarry

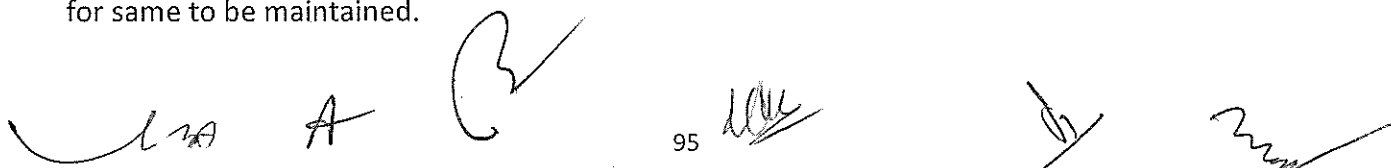
OB will be utilized for Retaining wall Construction, internal mine road construction & berm along the approach road construction & maintenance.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.

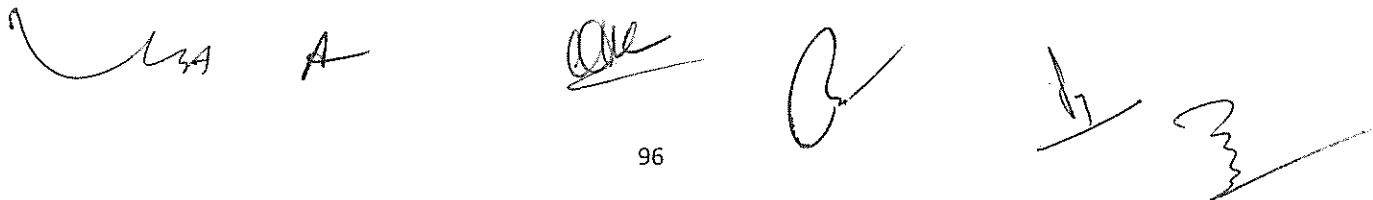

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- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Gadwa Stone Deposit of M/s Mahalaxmi Crusher and Logistics (Prop. : Shri Sanjay Prasad Yadav), Mouza : Gadwa, P.O. : Sakrigali, P.S : Taljhari, Dist. : Sahebganj, Jharkhand (2.832 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II.



Day 4 : March 24th, 2023 [Friday]

Consideration of Proposals

1. Enhancement of MS Billet production from 27,000 TPA to 148500 TPA through 3x15 T Induction Furnaces (by replacing existing 1x19 T Furnace with 1x15 T & installing additional 2x15 T Furnaces along with CCM-2x2 strand, 4/7 radius) , and production of 145500 TPA TMT Bars & Rolled Products by installing Rolling Mills of 1x25 TPH capacity and reheating furnace of 30 TPH (emergency use) by M/s Shree Dwarikesh Ecotex Private Limited at Kandra Industrial Area, Village : Bhitia, Mouza : Kansitanr, Thana no. : 124, Thana : Govindpur, P.S. : Govindpur, Distt. : Dhanbad, Jharkhand.

(Proposal No : SIA/JH/IND1/422444/2023).

Name of the consultant : Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar

This is an expansion project which has been taken for appraisal on 24.03.2023.

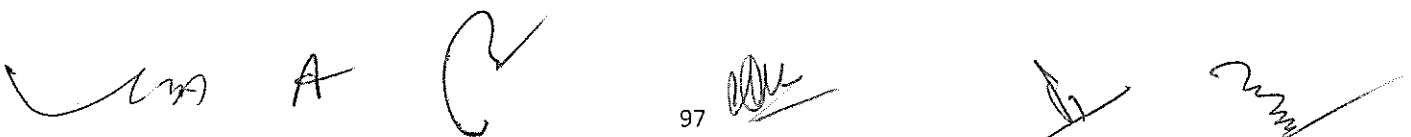
The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 3 (a) Metallurgical Industries (Ferrous & Non-Ferrous) as per EIA Notification, 2006.

M/s Shree Dwarikesh Ecotex Pvt. Ltd. is an existing steel plant at Plot No C-12(P), C13, C14(P), C15 & C16 at Kandra Industrial Area, Village - Bhitia, Mauza – Kansitanr, thana No.- 124, Thana – Govindpur, District -Dhanbad, Jharkhand. Total area of 4.50 acres (1.82 ha.) is proposed for the current project.

The company had installed a unit of Non-Woven Polyester Staple Fiber of 9000 TPA capacity vide CTE ref. no JSPCB/HO/RNC/CTE-2378724/2018/897, dated 24.08.2018 and CTO vide ref. no JSPCB/RO/DHN/CTO-11179170/2021/99, dated 28.10.2021. However due to non-viability of the product, the company dismantled the unit and surrendered the consent.

M.S. Billet/Ingot unit was installed after obtaining Consent to Establish (CTE) vide Ref. No. JSPCB/HO/RNC/CTE-8744396/2020/389 dated 08.10.2020 for 27000 TPA M.S. Billet/Ingots and 48000 TPA Slag Crusher. Consent to Operate (CTO) for the same was obtained vide Ref. no. JSPCB/HO/RNC/CTO-130195451/2022/821, dated 09.06.2022 for the period 31.12.2024. The slag crusher unit is located in the plot adjacent to the area proposed for the project.

The company now proposes for Expansion Project for Final Configuration of Induction Furnaces 3 x 15T (by Replacement of Existing 1 x 9T Furnace with 1 x 15 T & Addition of 2 x 15 T) & CCM 1 x 2 strand, 4/7 Radius for Hot Billets - 148500 TPA, Rolling Mill (for Rolled Products) - 145500 TPA and Reheating Furnace (1x30 TPH, back up)- 99000 TPA from existing plant of – M.S. Ingots/Billets

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27000 TPA. There will be a stand by re-heating furnace of capacity 99000 TPA for emergency and start-up after shutdowns.

Land Details :

Khata No.	Plot No.
23	74 (P), 70 (P)
22	90, 91
18	88, 93 (P)
19	87 (P), 92, 94 (P), 95 (P)
04	89, 108 (P)

Total area of 4.50 acres (1.82 ha.) allotted by concerned authority, is proposed for the current project. For complying with the requirement of 33% greenbelt and plantation 1.52 acres (0.615 ha.) land will be acquired in the nearby vicinity for plantation purpose only.

Latitude & Longitude of the project :

Latiude	Longitude
23°50'53.34"N to 23°50'57.24"N	86°28'34.10"E to 86°28'39.84"E

The existing project cost is Rs. 4.65 Crores. The estimated project cost for the proposed expansion is Rs. 44.46 Crores. The total project cost after the expansion will be Rs. 49.11 Crores.

Employment Generation after the proposed project will be 150 direct employment and approximately 100 - 120 people will be employed during the construction phase and will be recruited from the local villages surrounding the project site.

The capacity of different existing and proposed units is as follows:

Sl. No	Plant Facilities	Existing Configuration	Proposed final Configuration	Final Production Capacity (TPA)
1	Induction Furnace For Billet	27,000 TPA (1x9T)	1,48,500 TPA (3x15 T)	MS Billets 148,500 TPA
	Continuous Casting Machine	-	1 x 2 strand Rad - 4/7 m (for 1,48,500 TPA)	
2	Reheating Furnace (emergency use)	-	1x30 TPH	99000 TPA

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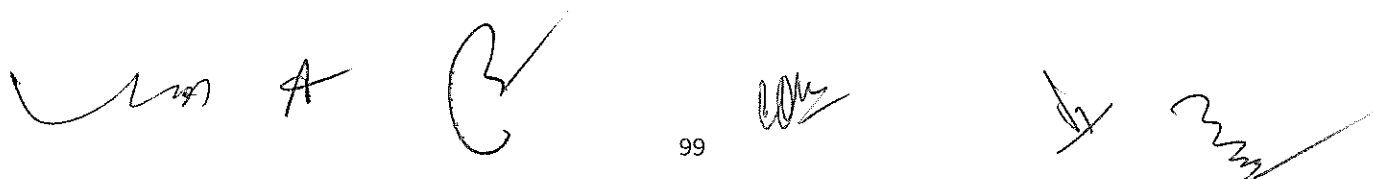
Sl. No	Plant Facilities	Existing Configuration	Proposed final Configuration	Final Production Capacity (TPA)
3	Rolling Mill (Direct Hot Charging)	-	1,45,500 TPA (1x25TPH)	Rolled Products (TMT Bars/Rods etc.) 1,45,500 TPA

Presently the unit is having a connected load of 3.0 MVA from DVC. Total power requirement for the project after expansion is envisaged as 22.0 MVA, which will be met from DVC.

The total requirement of makeup water for industrial and domestic purposes after the proposed expansion will be 190.0 KLD. Existing NOC for ground water is for 42 KLD (NOC No. CGWA/NOC/IND/ORIG/2021/12085) dated: 01.06.2021. The water requirement will be met from ground water through bore wells. NOC for the proposed ground water withdrawal will be obtained from CGWA.

Raw material for the plant would be procured from local and other state markets depending upon the quality. The transportation of raw material and the final products will be done through NH-2 that is nearby the project site. Total Raw material requirement after the proposed expansion of plant is given below:

Raw Materials	Required materials for Per Ton of product	Total Raw materials required After Expansion	Source
Billets – Total production: 148500 TPA			
Sponge Iron	0.80	118800 TPA	Plant in Jharkhand. Through Road
Pig Iron	0.30	44550 TPA	
Scrap	0.15	22275 TPA	In-house & nearby Plants. Through Road
Ferro Alloys (SiMn/FeSi)	0.002	297 TPA	Plant in Jharkhand. Through Road
Total Raw Materials	1.252	185922 TPA	
Rolling Mill – Rolled products (TMT Bars/Rods etc.) Total production: 145500 TPA			
Hot Billets/M.S. Billets	1.02	148500 TPA	148500 TPA, In-house – Hot Billets direct charging
Re-heating furnace – 99000 TPA			
Clean fuel	0.07	As appropriate	Purchase from available sources.



STATUTORY CLEARANCES :

1	LOI/Lease docs	:	Lease Deed.
2	CO	:	The CO, Govindpur (Dhanbad) vide letter no. 1167, dated 16.09.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1967, dated 14.11.2021 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Dhanbad Forest Division vide letter no. 2203, dated 02.12.2021 certified that the distance of reserved / protected forest is 500 meters from project site.
5	CGWA	:	No Objection Certificate (NOC) for Ground Water Abstraction issued by CGWA vide NOC no. CGWA/NOC/IND/ORIG /2021 /12085, dated 01.06.2021.
6	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-8744396 /2020/389, dated 08.10.2020.
7	Consent to Operate (CTO)	:	CTO granted by JSPCB vide Ref. no. JSPCB/HO/RNC/CTO-13019451/2022/821, dated 09.06.2022.

Baseline data collection for 3 month (one season) – 1st March to 31st May 2023.

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 21, 22, 23, 24 & 25.03.2023, the Committee recommends for issuing of TOR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure V alongwith the following specific conditions :

- I. Unutilized land will be used for green cover development.
- II. Solar panel will be installed and the power so generated will be used for common lighting.

2. Expansion of existing Rebars & Wire Rods at Wire Rod Mill from capacity 2,67,000 TPA to 4,75,200 TPA & HC & MS GI Wires at Wire Mill from 62,050 TPA to 2,37,600 TPA and 100 TPA Graphene Powder production facility by M/s The Indian Steel and Wire Products Limited at Jamshedpur Notified Area Committee, Distt. : East Singhbhum, Jharkhand.

(Proposal No : SIA/JH/IND1/ 422426/2023).

Name of the consultant : Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar

This is an expansion project which has been taken for appraisal on 24.03.2023.

The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 3 (a) Metallurgical Industries (Ferrous & Non-Ferrous) as per EIA Notification, 2006.

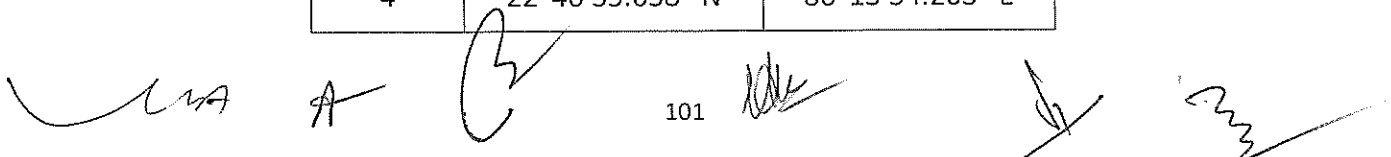
The proposal is Brownfield Project for Expansion of existing Rebars & Wire Rods at Wire Rod Mill from capacity 2,67,000 TPA to 4,75,200 TPA & HC & MS GI Wires at Wire Mill from 62,050 TPA to 2,37,600 TPA and existing 100 TPA Graphene Powder production facility, located at Jamshedpur Notified Area Committee, District: East Singhbhum, Jharkhand.

Products & Production Capacity:

Product	Existing Capacity TPA	Final Capacity TPA
Rebars & Wire Rods	2,67,000	4,75,200
HC & MS GI Wires	62,050	2,37,600
Graphene Powder	100	100

The proposed mill is located in Khata no. 33, Ward no. 14 of Jamshedpur Notified Area Committee, District East Singhbhum, Jharkhand. The project lies in between latitude 22°46'13.916" N to 22°46'38.061" N and longitude 86°13'51.326" E to 86°14'9.540" E, details of the corner coordinates are as below :

Pillar no	Latitude	Longitude
1	22°46'38.061" N	86°13'51.647" E
2	22°46'36.104" N	86°13'53.563" E
3	22°46'36.599" N	86°13'54.203" E
4	22°46'35.658" N	86°13'54.203" E



5	22°46'37.256" N	86°13'57.174" E
6	22°46'34.206" N	86°14'0.806" E
7	22°46'33.158" N	86°14'9.540" E
8	22°46'16.650" N	86°14'8.957" E
9	22°46'15.678" N	86°14'0.446" E
10	22°46'13.916" N	86°13'56.334" E
11	22°46'14.372" N	86°13'51.326" E
12	22°46'26.592" N	86°13'51.640" E

Land details :

Khata Number	Plot Number
33	306, 307, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 565, 566, 760, 761 (ward no. 14, Jamshedpur Notified).

Existing cost for the project is Rs. 141.05 Crores. Additional 109.04 Crores will be spent for the proposed expansion. Final project cost is 250.0 Crores Employment Generation after the proposed project will be 280 direct employment and approximately 394 people will be employed contractually/temporarily. During the construction phase, 105 people will be employed temporarily. People will be recruited from the local areas nearby the project site.

Raw material for the plant would be procured from Tata Steel Long Project (TSLP) & local market. The transportation of raw material and the final products will be done by existing roads adjacent to the project site. The capacity of different units proposed are as follows:

Unit	Existing	Addition	Final	Capacity	Remarks
Wire Rod Mill					
Reheating Furnace	1 x 55 TPH	Process & efficiency optimization to achieve 1 x 60 TPH	1 x 60 TPH	4,75,200 TPA	Expansion through process optimization and max. efficiency utilization of equipment
Rod Mill (25 Strands)	1 x 55 TPH	Process & efficiency optimization to achieve	1 x 60 TPH	4,75,200 TPA	

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Unit	Existing	Addition	Final	Capacity	Remarks
		1 x 60 TPH			
Wire Mill					
Wire Drawing	7 x 1 TPH	23 x 1 TPH	30 x 1 TPH	2,37,600	-
Galvanizing Line	1 x 7.6 TPH	1 x 7.6 TPH	2 x 7.6 TPH	1,20,000	-
Graphene Powder Facility					
Pusher Furnace	1 x 0.014	-	1 x 0.014	100	No expansion proposed.
Balling Machine	TPH		TPH		
Packaging Machine	1 x 0.014 TPH	-	1 x 0.014 TPH	100	

Existing power requirement of the project is 8 MW. Additional requirement is 4 MW. Total requirement of power is estimated as 12 MW. Power requirement is and will be sourced from TSUISL (previously JUSCO). DG Set of capacity 250 KVA for meeting emergency requirement of the plant is installed.

Total Raw material requirement after the proposed expansion of plant is given below:

#	Section	Raw Material	Existing	Additional	Final	Source	Mode of Transportation
Wire Rod Mill							
1	Rod Mill	Billets (T)	2,70,660	2,24,023	4,94,683	Tata Steel	Road
2	Wire Mill	Wire Rod (T)	63,272	1,40,668	2,03,940	In-house	Road
Graphene Powder Facility							
1	Graphene Powder	Shellac, Intercalated Graphene (T)	175	-	175	Tata Steel	Road
Fuel Requirements							
1	LDO/FO (Rod Mill)	Furnace Oil (Existing, KL)	9,474	7,841	17,314	IOCL	Road
2	Natural Gas	Natural Gas	240	262	502	GAIL	Pipeline

	(Rod Mill, Wire Mill & Graphene)	(Proposed, mmbtu)					
Other Requirements							
1	Wire Mill & Graphene	LPG (Existing, kg)	2,284	5,064	7,348	IOCL	Road
2	For Galvanizing	Zinc (T)	1,139	2,532	3,671	Hindustan Zinc	Road
		Lead (T)	126	281	408	Hindustan Zinc	Road
		HCL (KL)	696	1,547	2,243	Local Market	Road

The total water requirement after the proposed expansion will be 796 KLD. Water requirement will be met from TSUISL (previously JUSCO) supply line. Existing STP of ISWP of 900 KLD, based on MBBR technology will be used for treatment of domestic sewage and ETP of 40 KLD.

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The land owned by Tata Steel for the period of 99 years vide lease deed no. 7415-7051, dated 01.06.1935.
2	CO	:	The CO, Jamshedpur, East Singhbhum vide memo no. 2359, dated 07.12.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1811, dated 13.12.2022 certified that the proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Jamshedpur Forest Division vide letter no. 3048, dated 15.12.2022 certified that the distance of reserved / protected forest is more than 250 m from project site.
5	Consent to Establish (CTE) & Consent to Operate (CTO)	:	Combined Consent (CTE & CTO) issued by JSPCB vide Ref. no. JSPCB/RO/JSR/CTE/CTO-6875830/2019/49, dated 10.12.2019.
6	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. no. : i. JSPCB/HO/RNC/CTE-6149603/2020/85, dated 07.02.2020. ii. JSPCB/HO/RNC/CTE-6419916/2020/84, dated 07.02.2020.

7	Consent to Operate (CTO)	:	CTO granted by JSPCB vide Ref. no. : i. JSPCB/RO/JSR/CTO-9498890 /2021/50, dated 15.03.2021. ii. JSPCB/HO/RNC/CTO-11018282 /2023/226, dated 02.02.2023.
8	Hazardous Waste Authorization	:	JSPCB/HO/RNC/HWM-1685952 / 2018 / 30, dated 08.04.2018.

Baseline data has been collected during October to December 2021 (Post-Monsoon Season). Same shall be used for preparation of EIA/EMP report for the project.

The proponent has mentioned that there is no court case or violation related to the project activity under EIA Notification and no forest land is involved. An undertaking regarding the same has been submitted by the project proponent.

Environment consultant Visiontek Consultancy Services Pvt. Ltd. (VCSPL) has been accredited by NABET, QCI as per the NABET Certificate No.: NABET/EIA/2023/RA 0209, dated 29.06.2021. – Valid up to 16th December 2023.

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 21, 22, 23, 24 & 25.03.2023, the Committee recommends for issuing of TOR to SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure V.

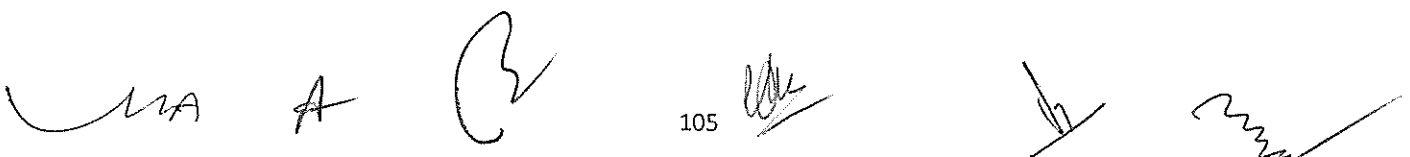



3. Pokhariya Brick Clay Mining Project of M/s Shubham Steel, Village : Pokhariya, Tehsil : Ghatsila, Distt. : East Singhbhum, Jharkhand (0.727 Ha).

(Proposal No : SIA/JH/MIN/422368/2023).

Applied Area : 1.795 Acres (0.727 Ha)
Project Category : B2 – Application for Environment Clearance
EC Application for : Soil 1200 m³/yr.
6000 m³ during plan period
Topsoil 685 m³ during plan period.
DG Set Not proposed

Name of the consultant: Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar

This is a new project which has been taken for appraisal on 24.03.2023

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Project and Location Details :

Sl.	Parameter	Details
1	Project Name	: Pokhariya Brick Soil Mining
2	Lessee:	: M/s Shubham Steel, Proprietor- Mr. Sushil Singhania
3	Lease Address	: Village-Pokhariya, P.S.-Ghatsila, District – East Singhbhum, Jharkhand.
4	Lease Area	: Ha: 0.727 Acres: 1.795
5	Type of Land	: Non-Forest – Rayati Land
6	Project Cost	: Rs. 13.50 Lakhs
7	EMP Budget	: Capital: Rs. 2.75 Lakhs Recurring: Rs. 1.70 Lakhs/ year Monitoring cost: Rs. 0.60 Lakhs/year
8	CSR / CER Budget	: Rs. 0.67 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 10962
11	Mine Life	: 9 Years Only, Proposed – 5 years only
12	Manpower	: 12 Person
13	Water Requirement	: 2.69 KLD (Drinking: 0.24 KLD, Dust Suppression & Plantation: 1.45 KLD, Other: 1.00 KLD)
14	Water Source	: Supplied through authorized tankers
15	DG Set / power	: Not Applicable
16	Crusher	: Not Applicable
17	Nearest Water Body	: Subernrekha River – 8.67 Km SW Burudi Lake – 5.33 Km NW Kharsoti River – 250 m W Behra Nala – 3.66 Km SE
18	Nearest Habitation	: Murakati 0.88 km SW direction from the mine site.
19	Nearest Rail Station	: Ghatsila Railway Station -7.93 Km (SW)
20	Nearest Airport	: Sonari Airport – 43.66 Km (NW) Birma Munda Airport (Ranchi) –146.85 Km- (NW)
21	Nearest Forest	: Kharikasol PF – 1.18 Km NW Mahishduba PF – 1.9 Km NE Bhaduya PF – 1.9 Km NE Bandhdih PF – 2.5 Km SW Jamuna RF – 3.32 Km NE Muklijangli RF – 4.08 Km NW Burudih RF – 6.89 Km NE Basadera RF – 5.90 Km NW Basajhor RF – 7.32 Km SE Mohanpur PF – 6.11 Km S

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		Uparsoli PF – 4.86 Km SE Haildapuri PF – 5.37 Km SE
22	Road & Highways	: NH 33 – 7.304 Km SW MDR - 0.25 Km NW

CO-ORDINATES

1	Latitude	: From 22° 37' 25.82" N	To 22°37' 29.15" N
2	Longitude	: From: 86° 32' 44.41" E	To 86° 32' 50.56" E

LAND DETAILS

The lease area is situated near Pokhariya

Khata No.	Plot No.	Area in Acre
84	56P	0.320
39	58P	0.315
39	124	0.030
39	125	0.210
39	126	0.920
Total		1.795

STATUTORY CLEARANCES

1	LOI/Lease docs	: Land agreement made.
2	CO	: The CO, Ghatshila vide letter no. 36, dated 18.01.2023 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyani & Register II.
3	DMO	: DMO, East Singhbhum vide letter no. 109/Khanan, dated 01.02.2023 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Dalma Elephant Project vide letter no. 1770, dated 05.12.2022 certified that the proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
5	DFO Forest Distance	: DFO, Jamshedpur Forest Division vide letter no. 2626, dated 01.11.2022 certified that the distance of reserved / protected forest is more than 250 m from the proposed project site.
6	DSR	: The District Magistrate -cum- DC, East Singhbhum, Jamshedpur vide letter no. 170/Khanan, dated 21.02.2023 has informed that

			this project is part of District Survey Report (DSR) of East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Gram Sabha conducted on 06.12.2022.
8	Mine Plan Approval	:	Additional Director, Geology, Hazaribag vide letter no. G/2022-23-375, dated 30.10.2022.

WORKING DETAILS

1	Mining Method	:	Opencast Manual Mining	
2	Quarry Area	:	5 years– 0.340 ha	Life of Mine – 0.340 ha
3	Waste Generation	:	5 years–Nil	Life of Mine –Nil
4	Stripping Ratio	:	NA	
5	Working Days	:	200 days/year	
6	Benches: size & No	:	1m x 1m; 2 Nos.	
7	Elevation of Mine	:	In 124 MSL	
8	Ground Level Elevation	:	In 124 MSL	
9	Ultimate Working Depth	:	In 122 MSL	
10	Water Table	:	In 114 MSL and also 7.0 – 10.0 m bgl	
11	Topography of Mine	:	Flat area with gentle slope	
12	Explosive Requirement	:	Not applicable	
13	Diesel/Fuel requirement	:	Not applicable due to manual mining	

PRODUCTION DETAILS

Year	Production Bricks Clay in cum per Annum	Topsoil removable in cum for 5 years
1 st	1200	137
2 nd	1200	137
3 rd	1200	137
4 th	1200	137
5 th	1200	137
Total	6000	685

LAND USE

Category	Existing (Acres)	End of Plan Period (Acres)	End of Plan Period (Ha)	End of Mine Life (Acres)	Conceptual Plan (Acres)
Quarry Area	0.000	0.840	0.340	0.735	1.575





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Topsoil storage, Road/ Infrastr. /etc.	0.000	0.100	0.040	0.000	0.220
Safety Zone & Plantation	0.000	0.220	0.089	0.000	0.000
Unutilized Area	1.795	0.635	0.258	0.000	0.000
Total Area	1.795	1.795	0.727	0.735	1.795

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	Location	Area/Length	No of saplings
1	Safety Zone	: 0.089 Ha	225
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 0.31 Km	210 Tree on both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

Solid Waste Management

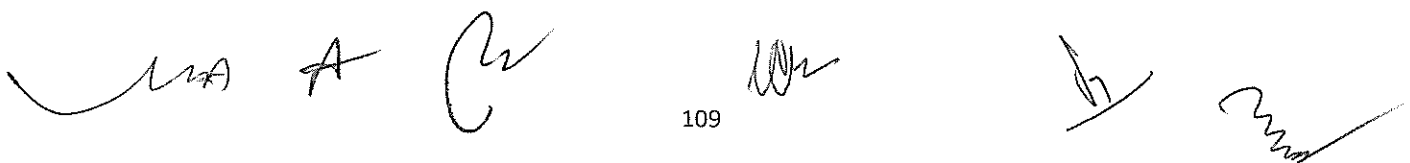
- Topsoil Generation will be 685 Cu.M. during the life of Mine. Topsoil storage area is 0.02 ha. The topsoil shall be used for backfilling progressively during the life of mine of the mining operation.

Water Pollution Control Measures:

- Mining operation will be restricted to a depth of 2m from the surface level.
- Water quality of the dug well will be monitored, in order to ensure the quality of water is not affected.

Air and Noise Pollution Control Measures:

- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck/tractor trolleys will not be done.



As the only impact is due to the transportation of soil through village roads, emphasis will be given on the following points:

1. Carts will be developed on village roads.
2. Carts-trolleys will be well maintained.
3. Minimum use of horns in the village area and silence zone (if any) as applicable.

Undertaking submitted affirming:

- a. Groundwater will be used only for domestic purposes and not be used for any mining activities or any other use.
- b. The district survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in the future.
- c. If any changes are noticed in the future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws/rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One-day post-monsoon baseline data related to environmental monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machinery/equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. Tree felling, if any is required, permission from competent authority should be obtained.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Pokhariya Brick Clay Mining Project of M/s Shubham Steel, Village : Pokhariya, Tehsil : Ghatsila, Distt. : East Singhbhum, Jharkhand (0.727 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II.




4. Proposed Common Bio-Medical Waste Treatment Facility (CBWTF) by M/s Royal Waste Management (OPC) Pvt. Ltd., Mouza : Pargodih, Tehsil : Jamua, Distt. : Giridih, Jharkhand.
(Proposal No : SIA/JH/INFRA2/419267/2023).

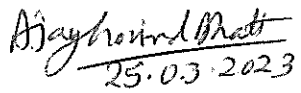
Name of the consultant : Environmental Management Division of India Glycols Limited

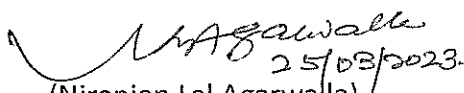
During presentation it was observed that the PAs have not obtained site clearance from JSPCB, which is a pre-requisite as per CPCB guidelines for Common Bio-Medical Waste Treatment and Disposal Facilities dated 21.12.2016.

On the receipt of the same the PAs may request for reconsideration.

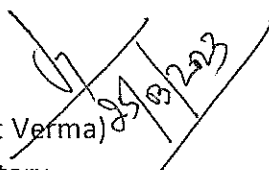
The meeting concluded with thanks to all present.



(Dr. Raju Kumar)
Member


25.03.2023
(Dr. Ajay Govind Bhatt)
Member


25/03/2023
(Niranjan Lal Agarwalla)
Member

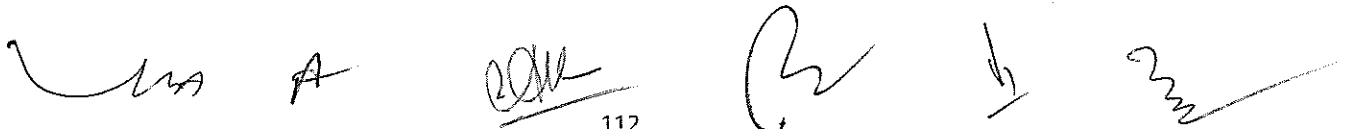

25/3/23
(Dr. Kirti Avishek)
Member


25/3/2023
(Srikant Verma)
Secretary


25/03/2023
(Ashok Kumar Singh)
Chairman

I. Statutory Compliance

- i. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
- iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and proscribed in the guidelines of 09th February, 2011 shall be strictly adhered to ".
- v. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- vi. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- vii. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- viii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- ix. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- x. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- xi. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after completion of the project.

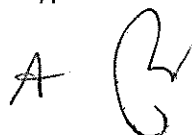
A series of handwritten signatures and initials in black ink, including a large flourish, the letter 'A', a signature that appears to be 'Ravi', a signature that appears to be 'Ravi', a signature that appears to be 'Ravi', and a signature that appears to be 'Ravi'.

- xiii. Provision of drinking water, waste water disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problems. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.
- xiv. All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.
- xv. All vehicles/equipment deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peaking hours.
- xvi. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xvii. Water during construction phase should be preferred from Municipal supply.
- xviii. Unskilled construction labourers shall be recruited from the local areas.
- xix. Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
- xx. Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" issued by Ministry of Environment and Forests, Government of India shall be adopted.
- xxi. Rest room facilities shall be provided for service population.
- xxii. Water body falling within premises (if any) shall not be lined or no embankment shall be cemented. The water bodies, if any, shall be kept in natural conditions without disturbing the ecological habitat.
- xxiii. Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standards and specifications of all construction work from concerned authority.

II. Air quality monitoring and preservation

- i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act,











1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.

- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.

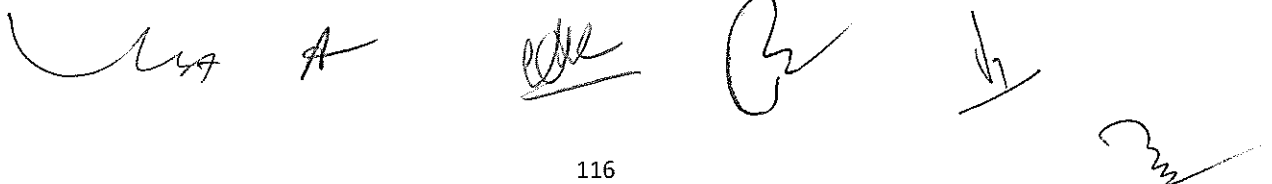


- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.

- xvi. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- xvii. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xviii. No sewage or untreated effluent water would be discharged through storm water drains.
- xix. Onsite sewage treatment of capacity of treating 100% waste water to be installed based on the MBBR/MBR/SBR technology. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxi. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

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V. Energy Conservation measures

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.



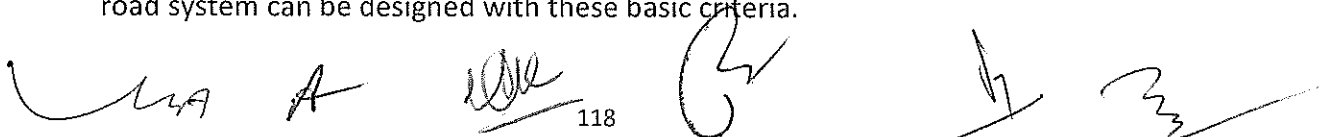
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 20L.6., Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

- i. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
- ii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iii. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- iv. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

VIII. Transport

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.


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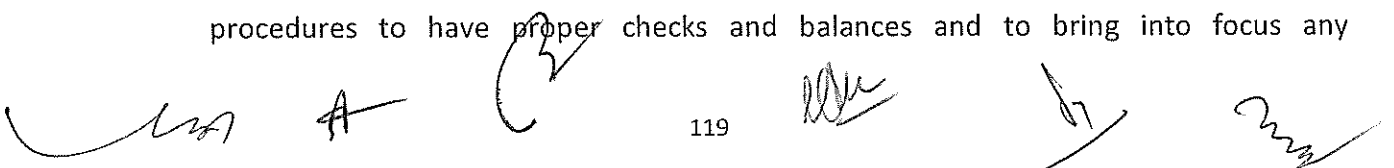
- a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
 - iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

IX. Human Health Issues

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. 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, 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.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any

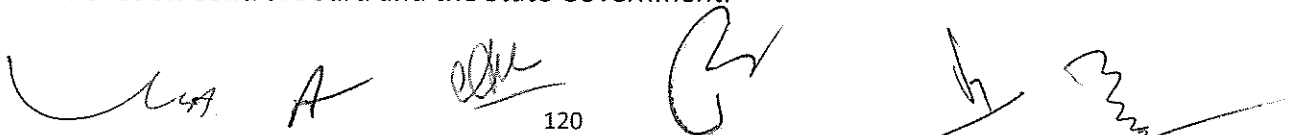


infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.




- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

XI. Miscellaneous

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

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- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB / SEIAA.
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC 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.
- xvi. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF&CC, Govt. of India.





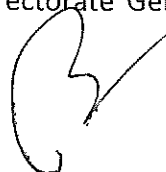
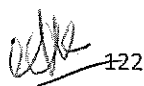


I. Statutory compliance

- i. This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- ii. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to ".
- iii. The Project proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- iv. The Hon'ble Supreme Court vide order dated 08.01.2020 in W.P. (Civil) No.114/2014 in the matter of Common Cause vs. Union of India has directed that the area which has been mined should be restored so that grass and other vegetation including trees can grow in the mining area for the benefit of animals.

"The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.




- v. The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- vi. This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- vii. This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- viii. Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.
- ix. The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.



- x. The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- xi. The Project Proponent shall follow the mitigation measures provided in MoEF&CC's Office Memorandum No. Z-11013/57/2014-IAJI (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- xii. The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- xiii. A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- xiv. State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- xv. The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.Environmentclearance.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF & CC Regional Office for compliance and record.
- xvi. The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

II. Air quality monitoring and preservation

- i. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2; CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCUI, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- ii. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be



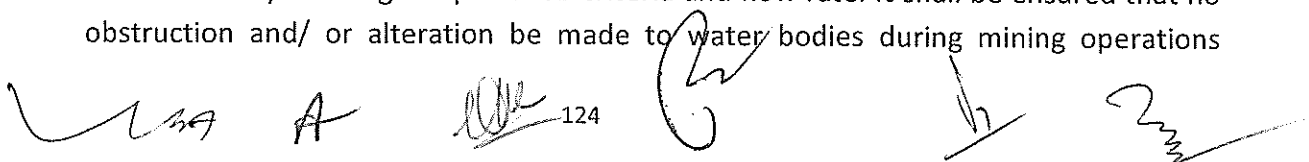




carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from ail sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance: Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC/ Central Pollution Control Board.

III. Water quality monitoring and preservation

- i. In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- ii. Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- iii. Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- iv. The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations

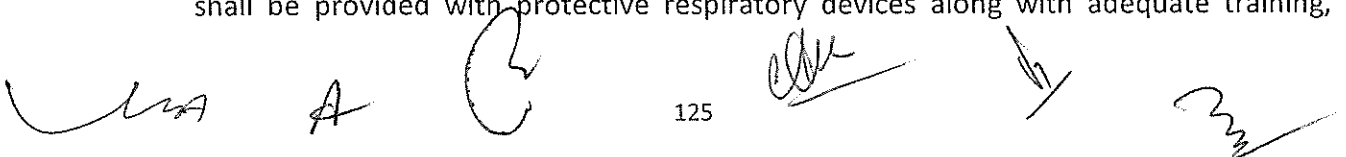
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without justification and prior approval of MoEF&CC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

- v. Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IAJI (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- vi. Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually.
- vii. Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- viii. The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

IV. Noise and vibration monitoring and prevention

- i. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- ii. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- iii. The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training,

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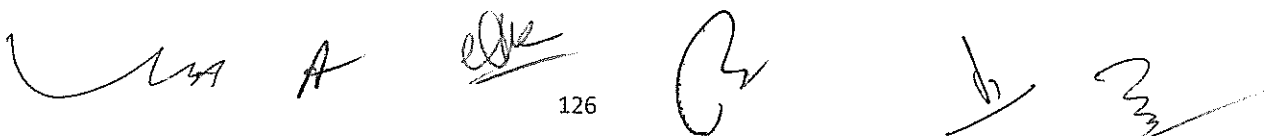
awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

V. Mining Plan

- i. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
- ii. The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- iii. The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office.

VI. Land reclamation

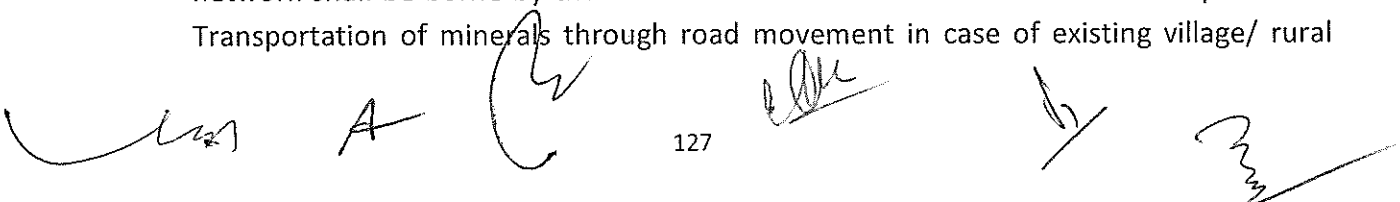
- i. The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- ii. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as

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- per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- iii. The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
 - iv. The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
 - v. The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.
 - vi. Catch drains, settling tanks and ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
 - vii. Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
 - viii. The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.

VII. Transportation

- i. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural

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roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.

- ii. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

VIII. Green Belt

- i. The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- ii. The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- iii. The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- iv. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly

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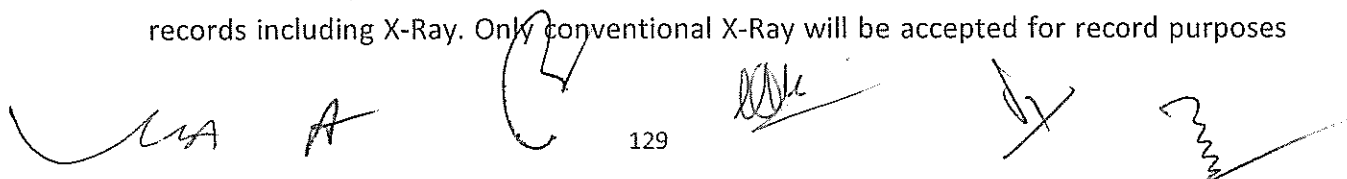
 

delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.

- v. And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

IX. Public hearing and human health issues

- i. The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.
- ii. The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.
- iii. The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium-Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes

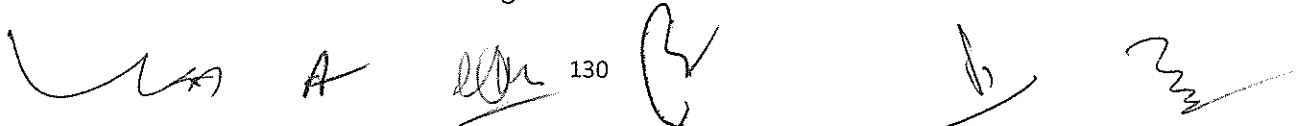
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and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).

- iv. The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1),Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.
- v. The Project Proponent shall ensure that 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.
- vi. Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- vii. The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

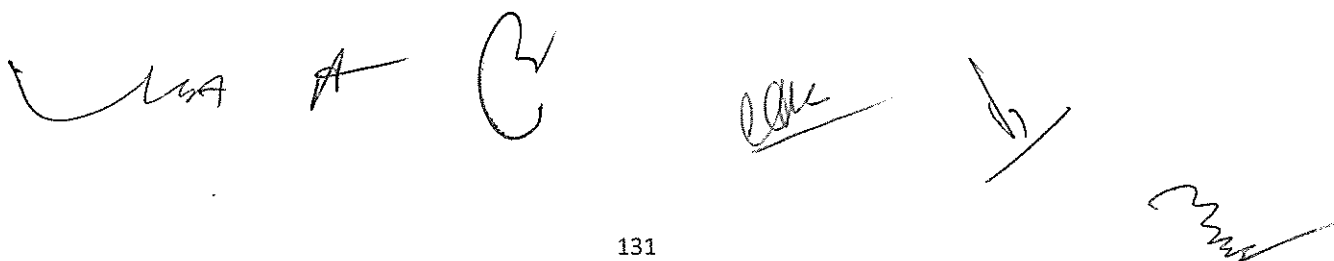
X. Corporate Environment Responsibility (CER)

- i. The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.
- ii. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office.

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XI. Miscellaneous

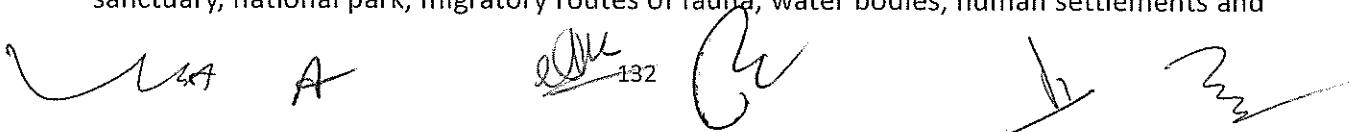
- i. The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.
- ii. The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- iii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB / SEIAA.
- iv. A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.
- v. The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.
- vi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- vii. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- viii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- ix. The Environmental Clearance accorded shall be valid for the period of lease of the mine. The PP shall not increase production rate and alter lease area during the validity of Environmental Clearance.
- x. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

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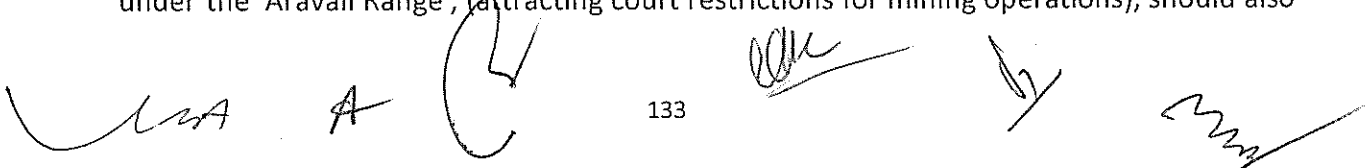
Annexure - III

The TORs prescribed for undertaking detailed EIA study are as follows:

- i. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- ii. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- iii. 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, mining technology etc. and should be in the name of the lessee.
- iv. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- v. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- vi. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- vii. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The 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, may also be detailed in the EIA Report.
- viii. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- ix. 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.
- x. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and

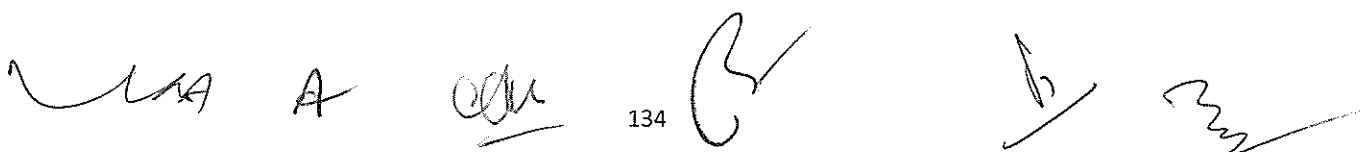
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- other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- xi. Details of the land for any Over Burden Dumps 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.
 - xii. 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. In the event of any contrary 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.
 - xiii. 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) should be indicated. A copy of the forestry clearance should also be furnished.
 - xiv. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
 - xv. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
 - xvi. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. 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.
 - xvii. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site 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, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
 - xviii. A detailed biological study of 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, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such 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 alongwith budgetary provisions 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.
 - xix. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also

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be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.

- xx. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- xxi. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
- xxii. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. 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.
- xxiii. 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.
- xxiv. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- xxv. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.

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- xxvi. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- xxvii. 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.
- xxviii. 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. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. 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.
- xxix. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- xxx. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- xxxi. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- xxxii. 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 incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- xxxiii. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- xxxiv. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- xxxv. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and

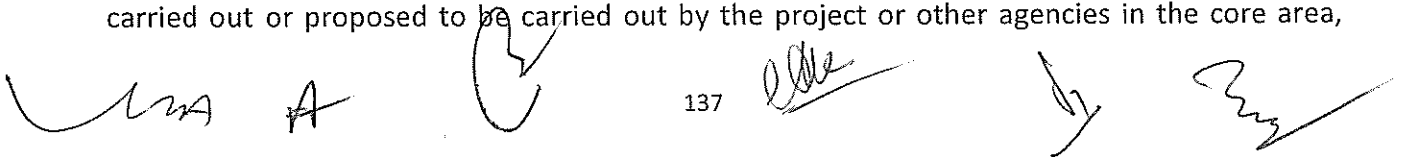
periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

- xxxvi. Public health implications 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 allocations.
- xxxvii. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- xxxviii. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- xxxix. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- xl. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- xli. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- xlii. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- xliii. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- xliv. Besides the above, the below mentioned general points are also to be followed :-
 - a) Executive Summary of the EIA/EMP Report
 - b) All documents to 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) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.
 - e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.

- g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF& CC 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 be followed.
- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC 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 again with the revised documentation.
- i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- j) 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.
- xlv. 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.

Specific Conditions :

1. The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
2. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
3. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
4. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
5. An assessment of the cumulative impact of all development and increased in habitation being carried out or proposed to be carried out by the project or other agencies in the core area,


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shall be made for traffic densities and parking capabilities in a 2 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA and the plan to be implemented to the satisfaction of all the concerned state departments and implementing agencies".

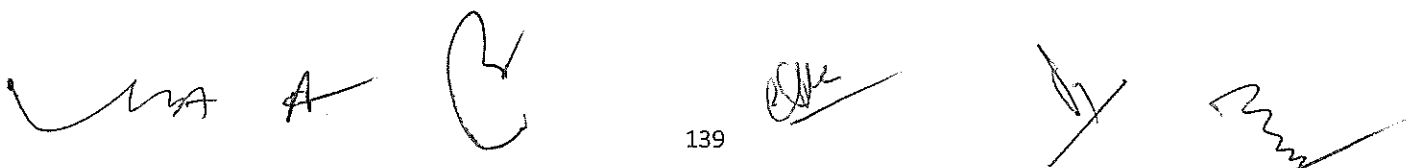
6. Management of solid waste and the Construction & Demolition waste for the project vis- a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
7. Details of all construction input should be furnished for assessment of Ecological damage/Environmental damage.
8. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.
9. Funds allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/ 2017-IA.III dated May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
10. The Prescribed ToRs is valid as per O.M. F. No. IA3-22/10/2022-IA.III[E177258], dated 08.06.2022 of MoEF&CC, Govt. of India.

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The TORs prescribed for undertaking detailed EIA study are as follows:

A. Standard Conditions :

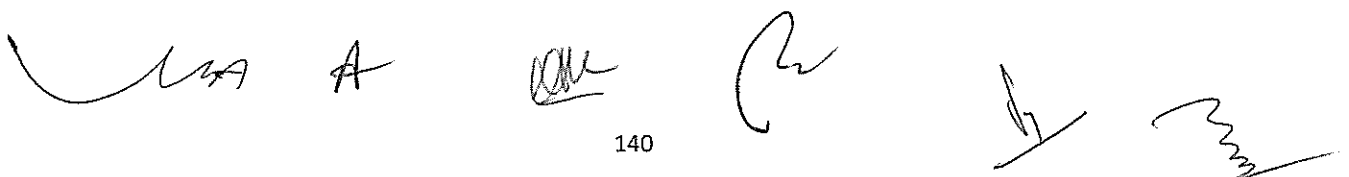
1. Examine base line environmental quality along with projected incremental load due to the project.
2. Environmental data to be considered in relation to the project development would be (a) land, (b) ground water,(c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations,(g) socio economic and health.
3. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding areas. Any obstruction of the same by the project.
4. Submit the details of the tree felling for the project.
5. Submit the present land use and permission required / obtained for any conversion such as forest, agriculture land etc.
6. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of E (P) Act.
7. Ground water classification as per the Central Ground Water Authority.
8. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
9. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water.
10. Examine details of solid waste generation, treatment and disposal.
11. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption and energy efficiency.
12. DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
13. Examine road / rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
14. Examine the details of transport of materials for construction which should include source and availability.
15. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
16. Submit details of a comprehensive Disaster Management Plan including emergency evacuation and fire during natural and man-made disaster.

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17. Details of litigation pending or any notice received against the project, if any, with direction / order passed by any Court of Law against the Project should be given.
18. The cost of the Project (capital cost and recurring cost) the damage cost of already opened land as well as the cost to wards implementation of EMP should be clearly spelt out.
19. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measures, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in /Manual / Townships>".
20. Any other rules / guidelines / orders issued by any competent authority shall be applicable to the project at the time of consideration of the projects for grant of EC.

B. Specific Conditions :

11. The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
12. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
13. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
14. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
15. An assessment of the cumulative impact of all development and increased in habitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 2 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA and the plan to be implemented to the satisfaction of all the concerned state departments and implementing agencies".
16. Management of solid waste and the Construction & Demolition waste for the project vis- a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
17. Details of all construction input should be furnished for assessment of Ecological damage/Environmental damage.
18. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.

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19. Funds allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/ 2017-IA.III dated May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.

20. The Prescribed ToRs is valid as per O.M. F. No. IA3-22/10/2022-IA.III[E177258], dated 08.06.2022 of MoEF&CC, Govt. of India.

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The TORs prescribed for undertaking detailed EIA study are as follows:

A. Standard Terms of Reference

1. Executive Summary

2. Introduction

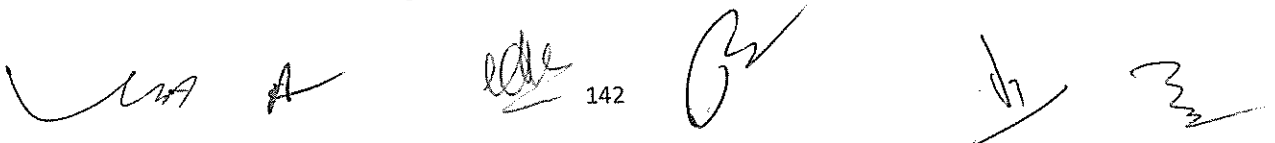
- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent
- iii. Importance and benefits of the project

3. Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment, Forest and Climate Change as per OM no. F.no. IA3-22/10/2022-IA.III [E 177258], dated 08th June, 2022 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing / existing operation of the project from SPCB shall be attached with the EIA-EMP report.
 - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification, 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4. Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.

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- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site. .
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy

5. Forest and wildlife related issues (if applicable):

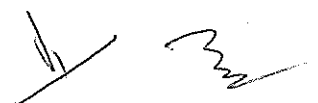
- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden- thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6. Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7. Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor- cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment.

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Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.

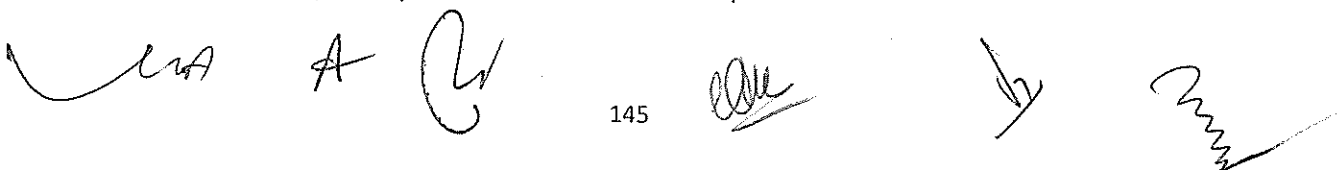
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control.
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle / reuse / recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 2500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8. Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. 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 analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of 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,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9. 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.

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- 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 shall be detailed in the EIA report
10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
11. **Enterprise Social Commitment (ESC)**
- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.
12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. 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, details thereof and compliance/ATR to the notice(s) and present status of the case.
13. A tabular chart with index for point wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON FERROUS)

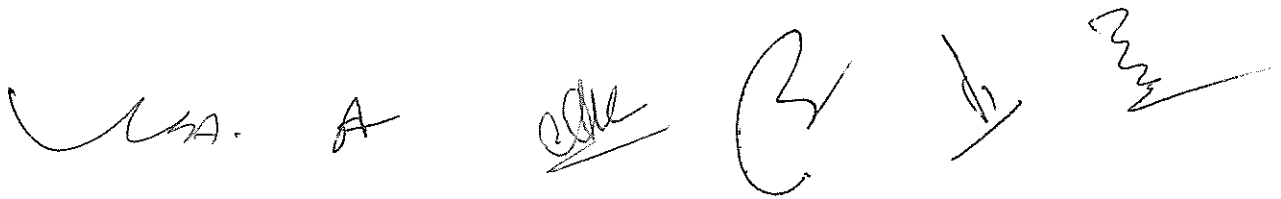
1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
3. Details on installation/activation of opacity meters with recording with proper calibration system
4. Details on toxic metals including mercury, arsenic and fluoride emissions
5. Details on stack height requirement for integrated steel
6. Details on ash disposal and management -Non-ferrous metal
7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
8. Raw materials substitution or elimination
9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation
10. Details on Holding and de-gassing of molten metal from primary and secondary aluminum, materials pre-treatment, and from melting and smelting of secondary aluminium
11. Details on solvent recycling

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12. Details on precious metals recovery
13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery
18. Trace metals in water

C. Other

1. 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.
2. The Prescribed ToRs is valid as per O.M. F. No. IA3-22/10/2022-IA.III[E177258], dated 08.06.2022. of MoEF&CC, Govt. of India.

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