

MINUTES OF THE 88<sup>th</sup> MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC),  
JHARKHAND HELD ON 23<sup>RD</sup>, 24<sup>TH</sup> & 25<sup>TH</sup> 26<sup>TH</sup> and 28<sup>TH</sup> June, 2021

The 88<sup>th</sup> meeting (Virtual) of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> 26<sup>th</sup> and 28<sup>th</sup> June, 2021 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 Niranjan Lal Agarwalla - Member
4. Dr. Raju Kumar - Member
5. Dr. Ajay Suvaid Bhatt - Member
6. Shri Ashok Kumar Dubey, IFS - Secretary

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 23<sup>rd</sup>, 24<sup>th</sup> 25<sup>th</sup> February, 2021. 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 / presentation as under:-

Day 1 : June 23, 2021 [Wednesday]

Consideration of Proposals

1. Khagachua Stone Deposit of M/s S.E. Stone Works (Prop: Shri Ignesh Tudu), Village : Khagachua, Tehsil : Pakuria, Dist. : Pakur, Jharkhand (2.15 Ha).

Proposal No. : SIA/JH/MIN/46271/2019

Name of the consultant : M/s Overseas Min-Tech Consultants, Jaipur

This is a new project which has been taken for appraisal on 23.06.2021

Specific observations of the committee from the appraisal are as under :

- i. As per CO Pakuria (Pakur) letter no. 567, dated 30.08.2019 it was observed that the educational institute / school is located within 500 m of the mine lease area. The committee was of the view that the blasting operation in the mine is likely to affect the safety of the institute due to flying rocks. Hence, the Project Authorities are required to give details of the institute / school located within 500 m, prepare a EIA report which is approved by competent Govt. Authority and School management
- ii. Project Authorities are required to obtain the fresh CO certificate mentioning precise distance between nearest point of town boundary and institute / school.

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- iii. As per the Approved mine plan and also the presentation made by the Consultant M/s Overseas Min-Tech Consultants, Jaipur, the development section along section G-G the mining activity goes up to level of 36 mRL. During presentation it was also shown that the post monsoon water table is at 36 mRL. Also collar of the nearest tube well is at 38 mRL. Hence, it is likely that the mining activity may intersect the ground water table. Therefore, the committee is of the view that a fresh study should be conducted to ascertain the ground water table of the mining area.
- iv. Significant variations have been found in the land use data as mentioned in the approved mining plan and the Pre-Feasibility Report and the presentation. Hence, the project authorities are required to provide the correct figures in revised documents.
- v. Crusher is shown in approved mining plan but it is not mentioned in the EC application. Hence, project authorities may include the same in the revised documents.

On submission of the requisite certificate / documents to SEAC, it will be taken up for re-consideration for grant of EC.

2. Brick Soil Mining for M/s Ranchi Bricks Village : Sanga, Thana : Pithoria, Dist. : Ranchi, Jharkhand (2.38 Ha).

(Proposal No. : SIA/JH/MIN/127505 /2019)

Name of the Consultant : Crystal Consultant, Ranchi

The Project Authorities vide letter dated 23.06.2021 requested to defer appraisal of the proposal to the next SEAC meeting. The Committee considered the request and accepted the same.

3. Brick Soil Mining for M/s Anand Bricks, Village : Hisri, Thana : Ginjo Thakurgaon, Dist. : Ranchi, Jharkhand (1.48 Ha).

(Proposal No. : SIA/JH/MIN/188184 /2020)

Name of the Consultant : Crystal Consultant, Ranchi

This is a new project which has been taken for appraisal on 23.06.2021.

This is Brick clay Mining Project with an area of 1.48 Ha [Khata no. 115, Plot No. 475. Khata No. 62, Plot no. 485]. The latitude and longitude of the project site is 23°31'20.96"N to 23°31'25.57"N and 85°11'19.06"E to 85°11'26.25"E.

Salient features of the project :-

Project Name	Brick Soil Mining for M/s Anand Bricks
Location of Mine	Village : Hisri, Thana : Ginjo Thakurgaon, Dist. : Ranchi, Jharkhand
Land Use	Raiyati land 3.68 Acres (1.48 Ha)
Minerals of Mine	Soil (Brick Soil)
Life of Mine	15 years
Total mineable reserves	17,690 cum
Proposed production of	6 Lakhs of Bricks or 1200 cum of sub soil per annum.

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mine	
Method of mining	Opencast manual mining
No. of working days	200 days
Water demand	9.85 KLPD (Drinking, Dust Suppression, Green Belt)
Sources of water	The water required for the mining activities shall be supplied by the tanker from the valid source
Man Power	10
Nearest Railway Station	Ilki railway station nearly 20 km
Nearest Airport	Ranchi Airport is about 26.68 Km.
Project cost	Rs. 11.58 Lakh
EMP cost	Capital cost Rs. 7.38 Lakh, recurring cost : 1.25 Lakh

DFO, Ranchi Wildlife Division vide memo no. 993, dated 06.09.2019 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project site not situated in ESZ.

DFO, Ranchi Division vide letter no. 5179, dated 07.11.19 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Burma, Ranchi vide letter no. 437 (ii), dated 17.12.19 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyani and Register II.

DMO, Ranchi vide memo no. 284, dated 09.01.2021 certified that no other lease exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Ranchi district.

Earlier this proposal was presented in SEAC on 05-07.01.2021 in which requisite certificate / documents were sought are as under –

- i. The current certificate of DMO regarding cluster formation to be provided.
- ii. Pre-Feasibility Report to be revised.
- iii. Undertaking affirming that :
  - a. Ground water will not be used in mining process.
  - b. The District survey Report has been prepared from the competent authority. PA's to abide by 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 PA's.

In line with above mentioned queries, the Project Proponent has submitted the compliance as follows :

- i. The current certificate of DMO regarding cluster formation has been submitted.
- ii. Revised Pre-Feasibility Report has been submitted.
- iii. Undertaking affirming that :
  - a. Ground water will not be used during mining process.

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- b. The District survey Report has been prepared from the competent authority. PA's to abide by 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 PA's.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Brick Soil Mining for M/s Anand Bricks, Village : Hisri, Thana : Ginjo Thakurgaon, Dist. : Ranchi, Jharkhand (1.48 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

4. Brick Soil Mining for M/s S.K.B. Bricks, Village : Bundu, Thana : Ormanjhi, Dist. : Ranchi, Jharkhand (0.623 Ha).

(Proposal No : SIA/JH/MIN/185502 /2020).

Name of the Consultant : Crystal Consultant, Ranchi

This is a new project which has been taken for appraisal on 23.06.2021.

This is Brick clay Mining Project with an area of 0.623 Ha [Khata no. 32, Plot No. 459]. The latitude and longitude of the project site is 23°29'33.58"N to 23°29'37.62"N and 85°22'15.92"E to 85°22'19.35"E.

Salient features of the project:-

Project Name	Brick Soil Mining for M/s S.K.B. Bricks
Location of Mine	Village : Bundu, Thana : Ormanjhi, Dist. : Ranchi, Jharkhand
Land Use	Rayati land 1.54 Acres (0.623 Ha)
Minerals of Mine	Soil (Brick Soil)
Life of Mine	5 years
Total mineable reserves	5753 m <sup>3</sup>
Proposed production of mine	6 Lakh nos of Bricks or 1200 m <sup>3</sup> of sub soil per annum.
Method of mining	Opencast manual mining
No. of working days	200 days
Water demand	6.75 KLPD (Drinking, Dust Suppression, Green Belt)
Sources of water	The water required for the mining activities shall be supplied

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	by the tanker from the valid source
Man Power	10
Nearest Railway Station	Mesra railway station nearly 9.05 km
Nearest Airport	Ranchi Airport is about 20.37 Km.
Project cost	Rs. 10.04 Lakh
EMP cost	Capital cost Rs. 5.70 Lakh, recurring cost 1.05 Lakh

DFO, Ranchi Wildlife Division vide memo no. 981, dated 06.09.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project site not situated in ESZ.

DFO, Ranchi Division vide letter no. 3113, dated 29.09.2018 certified that the distance of notified forest is 500 m from proposed project site.

The CO, Ormanjhi, Ranchi vide letter no. 527, dated 30.09.19 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyani and Register II.

DMO, Ranchi vide memo no. 285, dated 09.03.2021 certified that no other lease exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Ranchi district.

Earlier this proposal was presented in SEAC on 05-07.01.2021 in which requisite certificate / documents were sought are under –

- i. The current certificate of DMO regarding cluster formation to be provided.
- ii. Pre-Feasibility Report to be revised.
- iii. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. The District survey Report has been prepared from the competent authority. PA's to abide by 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 PA's.

In line with above mentioned queries, the Project Proponent has submitted the compliance as follows :

- i. The current certificate of DMO regarding cluster formation has been submitted
- ii. Revised Pre-Feasibility Report has been submitted.
- iii. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. The District survey Report has been prepared from the competent authority. PA's to abide by 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 PA's.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Brick Soil Mining for M/s S.K.B. Bricks, Village : Bundu, Thana : Ormanjhi, Dist. : Ranchi, Jharkhand (0.623 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

5. Brick Soil Mining for M/s Jai Mata Di Bricks (J.M.D.), Mouza : Sugnu, Thana : Sadar, Dist. : Ranchi, Jharkhand (0.86 Ha).

(Proposal No. : SIA/JH/MIN/46213/2019)

Name of the Consultant : Crystal Consultant, Ranchi

The Project Authorities vide letter dated 23.06.2021 requested to defer appraisal of the proposal to the next SEAC meeting. The Committee considered the request and accepted the same.

6. Sugapahari Stone Deposit of Sri Ravindra Nath Chand, Village : Sugapahari, Thana : Gopikandar, Dist. : Dumka, Jharkhand (2.69 Ha).

(Proposal No. : SIA/JH/MIN/ 215301/2019)

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 2.69 Ha [ J.B. no. 20, Plot no. 7 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, vide letter no. 413/M dated 09.03.2021. The nearest railway station is Dumka at a distance of 32.5 km SW and nearest airport is Netaji Subhas Chandra Bose International Airport, Kolkata at a distance of 219.3 km SE. Total water requirement is 13.62 KLD (Drinking : 0.63 KLD, Drilling & Dust Suppression : 8.22 KLD, Plantation : 4.77 KLD).

The allocated project cost is Rs 89.80 Lakhs and a provision of capital cost 16.00 Lakh, recurring cost Rs 2.62 Lakh per year has been allocated/apportioned for Environment management

Co-ordinates of the mine :

Latitude	Longitude
N 24°26'15.20" to N 24°26'21.91"	E 87°31'54.12" to E 87°32'02.03"

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The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 5,14,210 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	1,02,802
2 <sup>nd</sup>	1,02,848
3 <sup>rd</sup>	1,02,885
4 <sup>th</sup>	1,02,858
5 <sup>th</sup>	1,02,858

The proposed production capacity is 1,02,885 cum per annum. Life of Mine is 05 years.

DFO, Wildlife Hazaribagh vide letter no. 236, dated 08.02.2021 certified that certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 2230, dated 19.10.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Gopikandar vide letter no. 11, dated 06.01.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Dumka vide memo no. 37/M, dated 09.01.2021 certified that no other lease exists within 500 m radius from proposed project site.

The District Magistrate -cum- DC, Dumka vide letter no. 683, dated 19.04.21 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.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.

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- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained
- ii. Revised Pro-Feasibility Report to be submitted.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Sugapahari Stone Deposit of Sri Ravindra Nath Chand, Village : Sugapahari, Thana : Gopikandar, Dist. : Dumka, Jharkhand (2.69 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

- 7. Pindargaria Stone Deposit of Sri Ravindra Nath Chand, Village : Pindargaria, Thana : Gopikandar, Dist. : Dumka, Jharkhand (2.50 Ha).

(Proposal No. : SIA/JH/MIN/ 215434/2021)

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 2.50 Ha [ J.B. no. 03. Plot no: 33]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, vide letter no. 411/M dated 09.03.2021. The nearest railway station is Dumka at a distance of 33.42 km SW and nearest airport is Netaji Subhas Chandra Bose International Airport, Kolkata at a distance of 215.36 km SE. Total water requirement is 8.48 KLD (Drinking : 0.60 KLD, Dust Suppression : 3.48 KLD & Green Belt : 4.40 KLD).

The allocated project cost is Rs 76.16 Lakhs and a provision of capital cost 13.68 Lakh, recurring cost Rs 2.17 Lakh per year has allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
N 24°24'55.92" to N 24°25'07.57"	E 87°33'10.03" to E 87°33'18.06"

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 3,64,315 cum

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Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	72,876
2 <sup>nd</sup>	72,881
3 <sup>rd</sup>	72,877
4 <sup>th</sup>	72,870
5 <sup>th</sup>	72,740

The proposed production capacity is 72,881 cum per annum. Life of Mine is 05 years

DFO, Wildlife Hazaribagh vide letter no. 237, dated 08.02.2021 certified that certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 2090, dated 03.10.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Gopikandar vide letter no. 515, dated 16.12.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.

DMO, Dumka vide memo no. 3170/M, dated 23.12.2020 certified that no other lease exists within 500 m radius from proposed project site.

The District Magistrate -cum- DC, Dumka vide letter no. 683, dated 19.04.21 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.

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i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

ii. Revised Pre-Feasibility Report to be submitted.

iii. Revised Form -I to be submitted

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gab on Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Pindargaria Stone Deposit of Sri Ravindra Nath Choud, Village : Pindargaria, Thana : Gopikandar, Dist. : Dumka, Jharkhand (2.50 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

8. Hansebari Stone Mine of Sri Dipak Kumar Swarnkar, Village : Hansebari, Tehsil : Deori, Dist. : Giridih, Jharkhand (0.907 Ha).

(Proposal No. : S/A/JH/MIN/ 194180/2021)

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 0.907 Ha [ Khata no. 01, Plot no. 39 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Giridih, vide letter no. 912/M dated 18.11.2020. The nearest railway station is Rajdhanwar at a distance of 15 km and nearest airport is Ranchi Airport at a distance of 225 km. Total water requirement is 8 KLD (Potable : 01 KLD, Dust Suppression : 06 KLD & Green Belt : 01 KLD).

The allocated project cost is Rs 1.10 Crore and a provision of capital cost 15.90 Lakhs has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°29'51.75"N	86°02'58.57"E
24°29'47.04"N	86°03'00.07"E

The details of mine capacity as per Approved Mining Plan are

Lineable Reserve : 1.30,921 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

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Year	Production of stone (cum)
1 <sup>st</sup>	12,788
2 <sup>nd</sup>	12,794
3 <sup>rd</sup>	12,788
4 <sup>th</sup>	12,802
5 <sup>th</sup>	12,788

The proposed production capacity is 12,803 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribagh vide letter no. 2154, dated 19.12.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Giridih West Division vide letter no. 660, dated 15.05.2017 certified that the distance of reserved forest is 420 m from proposed project site.

The CO, Deori, Giridih vide letter no. 203, dated 29.03.2017 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatyan & Register II.

DMO, Giridih vide memo no. 1033, dated 22.12.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC-cum- District Magistrate, Giridih vide letter no. 502, dated 07.06.21 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority, PA's to abide by directives issued by any court of law in future
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.

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i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

ii. Revised Pre-Feasibility Report to be submitted.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. Maintenance work such as h/v, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Hansebari Stone Mine of Sri Dipak Kumar Swarnkar, Village : Hansebari, Tehsil : Deori, Dist. : Giridih, Jharkhand (0.907 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

9. Jamuasol Stone Deposit of Sri Rajendra Prasad Mehta & Sri Mishil Baski, Village : Jamuasol, Thana : Sarath, Dist. : Deoghar, Jharkhand (1.00 Ha).

(Proposal No. : SIA/JH/MIN/ 199223/2021)

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 1.00 Ha [ Khata no. 17, Plot no. 534(P) & 535 (P) & Khata no. 63 Plot no. 522 (P), 536, 537 (P), 1357 (P), 1358 (P), 1359 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Deoghar vide letter no. 933/M dated 31.12.2020. The nearest railway station is Madhupur at a distance of 25.35 km and nearest airport is Ranchi Airport at a distance of 189 km. Total water requirement is 8.34 KLD (Drinking, Dust Suppression & Green Belt ). The water required for the mining activities shall be supplied by the tanker from Ajay River.

The advocated project cost is Rs 60 Lakhs and a provision of capital cost 6.16 Lakh, recurring cost Rs 1.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°13'32.50"N	86°53'12.07"E
24°13'36.22"N	86°53'17.85"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,24,720 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	12,380
2 <sup>nd</sup>	12,363
3 <sup>rd</sup>	12,420
4 <sup>th</sup>	12,403
5 <sup>th</sup>	12,424

The proposed production capacity is 12,424 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribagh vide letter no. 1671, dated 16.08.2019 certified that the Parasnath Wildlife Sanctuary is 72,110 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Deoghar Division vide letter no. 1503, dated 29.06.2019 certified that the distance of reserved forest is 520 m from proposed project site.

The CO, Sarath (Deoghar) vide letter no. 561, dated 14.08.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Deoghar vide memo no. 46, dated 15.01.2021 certified that no other lease exists within 500 m radius from proposed project site.

The DC -cum- District Magistrate, Deoghar vide letter no. 141, dated 19.02.21 has informed that this project is part of District Survey Report (DSR) at Deoghar district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

i. Undertaking to be submitted affirming :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. 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 PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.

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i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

ii. Revised Pre-Feasibility Report to be submitted.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Jamuasol Stone Deposit of Sri Rajendra Prasad Mehta & Sri Mishil Baski, Village : Jamuasol, Thana : Sarath, Dist. : Deoghar, Jharkhand (1.00 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

10. Mahathpura Stone Mine of Md. Abdul Barik, Village : Mahathpura, Tehsil : Ganwa, Dist. : Giridih, Jharkhand (0.5427 Ha).

(Proposal No. : SIA/JH/MIN/ 194203/2021)

Name of the consultant : Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 0.5427 Ha [ Khata no. 08, Plot no. 55, 58, 59, 86, 87 & 88]. The Letter of Intent (LoI) has been issued by District Mining Office, Giridih, vide letter no. 549/M dated 11.08.2020. The nearest railway station is Jamua at a distance of 35 km and nearest airport is Ranchi Airport at a distance of 225 km. Total water requirement is 8 KLD (Potable : 01 KLD, Dust Suppression : 06 KLD & Green Belt : 01 KLD).

The allocated project cost is Rs 36.78 Lakhs and a provision of capital cost 6.90 Lakhs has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°37'53.20"N	86°04'01.10"E
24°38'01.38"N	86°04'04.57"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 20,022 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

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Year	Production of stone (cum)
1 <sup>st</sup>	3900
2 <sup>nd</sup>	3900
3 <sup>rd</sup>	3902
4 <sup>th</sup>	3895
5 <sup>th</sup>	3905

The proposed production capacity is 3905 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribagh vide letter no. 2135, dated 18.12.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Giridih West Division vide letter no. 262, dated 01.02.2018 certified that the distance of reserved forest is 550 m from proposed project site.

The CO, Tisri vide letter no. 541, dated 12.11.2017 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S Khatyan & Register II.

DMO, Giridih vide memo no. 804, dated 19.10.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC -cum- District Magistrate, Giridih vide letter no. 502, dated 07.06.21 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

- ii. Revised Pre-Feasibility Report to be submitted.

The Project Authorities have submitted above required documents.

The committee also recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Mahathpura Stone Mine of Md. Abdul Barik, Village : Mahathpura, Tehsil : Ganwa, Dist. : Giridih, Jharkhand (0.5427 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

- ✓ 11. Piska Stone Mine of M/s Banshidhar Construction Pvt. Ltd., Mouza : Piska, Tehsil : Ormanjhi, Dist. : Ranchi, Jharkhand (0.65 Ha).

(Proposal No. : SIA/JH/MIN/190361 /2020).

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

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 0.65 Ha [ Khata no. 05, 06 & 34, Plot no. 119, 120, 131 & 132]. The Letter of Intent (LoI) has been issued by District Mining Office, Ranchi vide letter no. 962/M dated 27.08.2020. The nearest railway station is Ramgarh Cantt. at a distance of 9.08 km and nearest airport is Ranchi Airport at a distance of 30.05 km. Total water requirement is 6.75 KLD (Domestic Water : 0.5 KLD, Dust Suppression : 5.0 KLD & Green Belt : 1.25 KLD).

The allocated project cost is Rs 30 Lakhs and a provision of capital cost 6.30 Lakh, recurring cost Rs. 7.40 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
23°32'26.1891"N to 23°32'23.1154"N	85°29'37.6853"E to 85°29'39.5642"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 12.938 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

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Year	Production of stone (cum)
1 <sup>st</sup>	2125
2 <sup>nd</sup>	2766
3 <sup>rd</sup>	3375
4 <sup>th</sup>	2367
5 <sup>th</sup>	2047

The proposed production capacity is 3375 cum per annum. Life of Mine is 05 years.

DFO, Wildlife Ranchi vide Memo no. 84, dated 22.01.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Ranchi Division vide letter no. 2721, dated 14.06.2019 certified that the distance of reserved forest is 272 m from proposed project site.

The CO, Ormanjhi (Ranchi) vide letter no. 411, dated 06.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register ii.

DMO, Ranchi vide memo no. 26, dated 05.01.2021 certified that no other lease exists within 500 m radius from proposed project site.

The DC -cum- District Magistrate, Ranchi vide letter no. 598, dated 03.06.21 has informed that this project is part of District Survey Report (DSR) at Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

i. Undertaking to be submitted affirming :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority, PA's to abide by directives issued by any court of law in future.
- d. 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 PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and repairs to be maintained.

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The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Piska Stone Mine of M/s Banshidhar Construction Pvt. Ltd., Mouza : Piska, Tehsil : Ormanjhi, Dist. : Ranchi, Jharkhand (0.65 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

12. Sahargram Stone Mine of M/s Guru Sisaya Stone Works, Village : Sahargram, Thana : Maheshpur, Dist. : Pakur, Jharkhand (3.00 Ha).

(Proposal No. : SIA/JH/MIN/188501 /2020).

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

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 3.00 Ha [ Jamabandi no. 7, 24, 16 & 18. Plot no. 353, 416, 417, 418 & 421]. The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 332/M dated 25.02.2020. The nearest railway station is Nagarbani at a distance of 15.24 km and nearest airport is Sido Kanhu Airport at a distance of 59.25 km. Total water requirement is 06 KLD (Drinking & Domestic Water : 1 KLD, Dust Suppression : 3 KLD & Green Belt : 2 KLD).

The allocated project cost is Rs 45.03 Lakhs and a provision of capital cost 3.395 Lakh , recurring cost Rs 3.64 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°34'10.80"N	87°43'16.80"E
24°34'8.90"N	87°43'15.64"E
24°34'7.80"N	87°43'14.70"E
24°34'7.30"N	87°43'14.82"E
24°34'6.50"N	87°43'15.40"E
24°34'5.02"N	87°43'14.00"E
24°34'3.60"N	87°43'12.60"E
24°34'4.80"N	87°43'12.10"E

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24°34'6.49"N	87°43'11.40"E
24°34'7.50"N	87°43'10.80"E
24°34'9.30"N	87°43'11.00"E
24°34'10.10"N	87°43'11.50"E
24°34'11.00"N	87°43'11.90"E
24°34'11.30"N	87°43'11.50"E
24°34'11.70"N	87°43'11.57"E
24°34'12.10"N	87°43'11.30"E
24°34'13.00"N	87°43'12.00"E
24°34'13.50"N	87°43'12.60"E
24°34'12.50"N	87°43'14.20"E
24°34'11.50"N	87°43'15.70"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,58,604 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	1,28,313
2 <sup>nd</sup>	1,28,380
3 <sup>rd</sup>	1,28,430
4 <sup>th</sup>	1,28,419
5 <sup>th</sup>	1,28,450

The proposed production capacity is 1,28,450 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribag vide letter no. 493, dated 08.03.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 834, dated 31.05.2021 certified that the distance of Reserved / Protected forest is 250 m from proposed project site.

The CO, Maheshpur vide letter no. 278, dated 23.04.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatryan & Register II.

DMO, Pakur vide memo no. 928, dated 16.06.2020 certified that no other lease exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Pakur district.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose

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- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- ii. Revised FMP cost and Land use pattern to be submitted.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. Maintenance work such as h/v, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Sahargram Stone Mine of M/s Guru Sisaya Stone Works, Village : Sahargram, Thana : Maheshpur, Dist. : Pakur, Jharkhand (3.00 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

13. Benagaria Stone Mine of M/s V. R. Minerals, Village : Benagaria, Thana : Shikaripara, Dist. : Dumka, Jharkhand (2.49 Ha).

(Proposal No. : SIA/JH/MIN/187916 /2020).

Name of the consultant : M/s Oceao -Enviro Management Solutions (India) Pvt. Ltd., Ghaziabad.

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 2.49 Ha [J.B. no. 39, Plot no. 651]. The Letter of Intent (LOI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 76/M

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dated 20.01.2020. The nearest railway station is Pindargaria at a distance of 4.78 km NE and nearest airport is Sido Khandu Asansol Airport at a distance of 35.31 km West. Total water requirement is 6.0 KLD (Drinking & Domestic : 1.0 KLD, Dust Suppression : 3.0 KLD, Plantation : 2.0 KLD).

The allocated project cost is Rs 49.35 Lakhs and a provision of capital cost 5.68 Lakh, recurring cost Rs 3.90 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24° 10' 40.04"N	87° 36' 43.87"E
24° 10' 42.02"N	87° 36' 40.56"E
24° 10' 42.23"N	87° 36' 38.27"E
24° 10' 39.66"N	87° 36' 37.60"E
24° 10' 37.28"N	87° 36' 37.97"E
24° 10' 35.75"N	87° 36' 38.31"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,81,919 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	77,980
2 <sup>nd</sup>	78,294
3 <sup>rd</sup>	78,120
4 <sup>th</sup>	78,159
5 <sup>th</sup>	78,542

The proposed production capacity is 78,542 cum per annum. Life of Mine is 6.1 years.

DFO, Wildlife Hazaribagh vide letter no. 2504, dated 19.11.2019 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 3598, dated 05.11.2019 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Shikaripara vide letter no. 966, dated 03.10.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.

DMO, Dumka vide memo no. 1412, dated 20.11.2019 certified that no other lease exists within 500 m radius from proposed project site.

The District Magistrate -cum- DC, Dumka vide letter no. 683, dated 13.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

1. Undertaking to be submitted affirming :

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- a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- ii. Revised EMP cost and land use pattern to be submitted.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Benagaria Stone Mine of M/s V. R. Minerals, Village : Benagaria, Thana : Shikaripara, Dist. : Dumka, Jharkhand (2.49 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

14. Kusumghati Stone Mine of M/s Agrima Infra Engineering Pvt. Ltd., Village : Kusumghati, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.12 Ha).

(Proposal No. : SIA/JH/MIN/214604 /2021).

Name of the consultant : M/s Ocean -Enviro Management Solutions (India) Pvt. Ltd., Ghaziabad.

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 2.12 Ha [Khata no. 01 & 03, Plot no. 274, 275, 276, 278(P) & 279(P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 1225/M dated 10.10.2019. The nearest railway station is Rampurhat at a distance of 24.17 km and nearest airport is Surichua Airport at a distance of 14.47 km. Total water requirement is 6.0 KLD (Drinking & Domestic : 0.69 KLD, Dust Suppression : 3.31 KLD, Plantation : 2.0 KLD).

The allocated project cost is Rs 55 Lakhs and a provision of capital cost 5.02 Lakh, recurring cost Rs 3.65 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°11'41.23"N	87°32'35.42"E
24°11'46.26"N	87°32'34.37"E
24°11'48.27"N	87°32'37.33"E
24°11'48.47"N	87°32'41.10"E
24°11'47.19"N	87°32'41.97"E
24°11'44.83"N	87°32'41.18"E
24°11'44.67"N	87°32'36.74"E
24°11'41.77"N	87°32'35.48"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,88,901 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	51,252
2 <sup>nd</sup>	53,900
3 <sup>rd</sup>	54,960
4 <sup>th</sup>	52,024
5 <sup>th</sup>	51,567

The proposed production capacity is 54.960 cum per annum. Life of Mine is 5.5 years.

DFO, Wildlife Hazaribagh vide letter no. 2583, dated 26.11.2019 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 3596, dated 05.11.2019 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Shikaripara vide letter no. 631, dated 12.08.2017 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.

DMO, Dumka vide memo no. 1325, dated 03.11.2019 certified that no other lease exists within 500 m radius from proposed project site.

The District Magistrate –cum- DC, Dumka vide letter no. 683, dated 13.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- ii. Revised EMP cost and Land use pattern to be submitted.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Vegetation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Kusumghati Stone Mine of M/s Agrima Infra Engineering Pvt. Ltd., Village : Kusumghati, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.12 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.



15. Jhalakdiha Stone Mine Project of M/s Maa Laxmi Traders, Mouza : Jhalakdiha, Tehsil : Giridih, Dist. : Giridih, Jharkhand (0.809 Ha).

(Proposal No. : SIA/JH/MIN/194447 /2021).

Name of the consultant : M/s Oceao -Enviro Management Solutions (India) Pvt. Ltd., Ghaziabad.

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 0.809 Ha [Khata no. 15, Plot no. 4(P) & 5(P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Giridih, Jharkhand vide letter no. 974/M dated 09.12.2020. The nearest railway station is Giridih at a distance of 6.3 km and nearest airport is Ranchi Airport at a distance of 140 km. Total water requirement is 7.75 KLD (Domestic : 0.25 KLD, Dust Suppression : 5.0 KLD, Green Belt : 2.5 KLD).

The allocated project cost is Rs 35.00 Lakhs and a provision of capital cost 8.4 Lakh, recurring cost Rs 7.4 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°08'25.9911"N to 24°08'29.7154"N	86°21'26.9509"E to 86°21'31.2519"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,08,930.8 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	10,852.80
2 <sup>nd</sup>	10,889.28
3 <sup>rd</sup>	10,839.12
4 <sup>th</sup>	10,889.28
5 <sup>th</sup>	10,930.32

The proposed production capacity is 10,930.32 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribag vide letter no. 31, dated 08.01.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Giridih East Division vide letter no. 1705, dated 07.09.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Giridih Sadar vide letter no. 994, dated 01.09.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Giridih vide memo no. 993, dated 14.12.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC -cum-District Magistrate, Giridih vide letter no. 502, dated 07.06.2021 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Jhalakdiha Stone Mine Project of M/s Maa Laxmi Traders, Mouza : Jhalakdiha, Tehsil : Giridih, Dist. : Giridih, Jharkhand (0.809 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific conditions.

16. Kusumghati Stone Mine of M/s Agrima Infra Engineering Pvt. Ltd., Village : Kusumghati, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (1.04 Ha).

(Proposal No. : SIA/JH/MIN/214672 /2021).

Name of the consultant : M/s Oceao -Enviro Management Solutions (India) Pvt. Ltd., Ghaziabad.

This is a new project which has been taken for appraisal on 23.06.2021.

This is a Stone Mining Project with an area of 1.04 Ha [Khata no. 01, Plot no. 267(P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 1226/M dated 10.10.2019. The nearest railway station is Harising at a distance of 5.67 km and nearest airport is Sido Kanho Airport at a distance of 28.25 km. Total water requirement is 6 KLD (Drinking & Domestic : 0.69 KLD, Dust Suppression : 3.31 KLD, Plantation : 2 KLD).

The allocated project cost is Rs 38.64 Lakhs and a provision of capital cost 2.80 Lakh, recurring cost Rs 3.54 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°11'44.51"N	87°32'35.01"E
24°11'44.64"N	87°32'36.74"E
24°11'45.41"N	87°32'36.88"E
24°11'45.13"N	87°32'38.82"E
24°11'41.90"N	87°32'38.67"E
24°11'41.77"N	87°32'35.48"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,76,832 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	29,094
2 <sup>nd</sup>	30,486
3 <sup>rd</sup>	33,007
4 <sup>th</sup>	28,780
5 <sup>th</sup>	30,585

The proposed production capacity is 33,007 cum per annum. Life of Mine is 5.8 years.

DFO, Wildlife Hazaribag vide letter no. 2577, dated 26.11.2019 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 446, dated 18.02.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Shikaripara vide letter dated 27.09.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khata (A) & Register II.

DMO, Dumka vide memo no. 1324, dated 01.11.2019 certified that no other lease exists within 500 m radius from proposed project site.

The District Magistrate -cum- DC, Dumka vide letter no. 683, dated 13.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- ii. Revised EMP cost and Land use pattern to be submitted.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Kusumghati Stone Mine of M/s Agrima Infra Engineering Pvt. Ltd., Village : Kusumghati, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (1.04

Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific conditions.

Day 2 : June 24, 2021 [Thursday]

Consideration of Proposals

1. Modernization & Expansion of Steel Melting Shop and Rolling Mill of M/s Balmukund Sponge & Iron Pvt. Ltd. (Mega Div.), Village : Manjhiladih, P.O. : Gadi Srirampur, Dist. : Giridih, Jharkhand.

(Proposal No. : SIA/JH/IND/39010 /2019)

Name of the consultant : Kalyani Laboratories Pvt. Ltd., Bhubaneswar.

This is a expansion project which has been taken for appraisal on 24.06.2021.

This project was appraised by previous SEAC in 79<sup>th</sup> meeting held on 26-27.09.2019. Thereafter, a ToR was granted by SEIAA vide letter no. 565, dated 21.10.2019.

The final EIA / EMP submitted by PP to SEIAA on 15.06.2021. This was forwarded to SEAC on 17.06.2021.

BALMUKUND SPONGE & IRON PVT.LTD.is a company incorporated on 14th July 1999 having its registered office at 603, Shanti Kunj Apartment, Chajjubagh, Patna -1. The Company is promoted by Sri Nawal Kumar Kanodia. The existing manufacturing facility MBF (1x110 TPD), Induction Furnaces (4x7 MT & 1x15 MT = 350 TPD) with CCM, Iron Ore Beneficiation Plant (94000 TPA Throughput) & one ReRolling Mill (50 TPD) of the company is located at Manjhiladih, Chatro Tundi Road, P.O. Gadisrirampur, Dist. Giridih (Jharkhand) which is ideally located in terms of raw material, power, skilled man power and logistics.

The Company has obtained Consent to Establish (CTE) vide letter No. N-356 dated 13.06.2005 for establishment of Induction Furnaces of 60 TPD and Rolling Mill of 50 TPD. The Company has also obtained Environmental Clearance from MoEF & CC, Govt. of India vide F. No. J-11011/870/2008-IA II (I) Dt: 28th Jul. 2010. Consent to Establish (CTE) was granted by JSPCB vide Memo No. 3576 Dt: 18.07.2008 for MBF (1x110 TPD, 39000 TPA) & vide letter No. EC/SEIAA/2013-14/297/2014/1525 Dt: 25.08.2015 for Induction Furnaces (2x7 MT & 1x15 MT = 290 TPD, 102660 TPA) with CCM, Iron Ore Beneficiation Plant (94000 TPA Throughput) from SEIAA, Jharkhand & CTE vide letter No.B4109 dt.16.10.2015 from JSPCB, Jharkhand has been obtained.

The Company has obtained Consent to Operate vide letter under Ref. No. JSPCB/HO/RNC/CTO-2335595/2018/1314 dated 13.08.2018 valid till 30.06.2020 for all the units referred herein from Jharkhand State Pollution Control Board.

The proposed manufacturing facilities of M.S. Billet - 150168 TPA, TMT Rod/M.S. Coil - 246926 TPA (After Modernization -M.S. Billet - 274068 TPA, TMT Rod/M.S. Coil - 246926 TPA) & two Induction Slag Grinders having grinding capacity of 47000 TPA segregating 3760 TPA of

Iron Metal for the Company will be located at Manjhiladih, Chatro Tundi Road, P.O. Gadisirampur, Dist. Giridih (Jharkhand) within the existing industrial premises.

The proposed enhancement by modernization of existing facility will take place in existing premise at Manjhiladih P.O. Gadisirampur, Dist. Giridih in the State of Jharkhand on Survey Total land of 26.354 Acres at mouza Manjhiladih, Distt. Giridih out of which 4.9375 Acre land in Thana No.267 Khata no.5,20,30,33,38,39 & 79 Plot No. 942, 943, 944, 945, 946, 947, 955, 958, 965, 966, 967, 968, 973, 982, 984, 985, 987 & 988. The site lies at latitude 24°7'9.36"N and longitude 86°21'15.62"E.

The cost of the project, estimated at Rs 41.55 Crore and a provision of capital cost 65 Lakh, recurring cost Rs 17 Lakh per year has been indicated for Environment Management Plan.

**Raw Material Required :**

Facilities	Raw Material	Existing Quantity in.TPA	Additional/ proposed Quantity in TPA	Total quantity required after expansion
M.S. Billet	Sponge Iron	97400	115500	212900
	Pig Iron	35045	46110	84155
	Iron & Steel Scrap	8445	9680	18125
	Silico Manganese	6195	7508	13703
TMT Rod, Bar	M.S. Billet	16550 (proposed dismantle)	274350	274350
Ind. Slag Grinder	Induction Furnace Slag	0	47000	47000

**Proposed Scenario of Expansion project :**

Sl. No.	Types of unit	Existing installed capacity	Proposed capacity (modernization / expansion)	Total capacity after modernization / expansion	Facilities
1.	Ind. Furnace & CCM (M.S. Billet)	123900 TPA (1x 15T)	150168 TPA (4x7T replaced with	274068 TPA (5 x 15T)	Ind. Furnace & CCM

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		4x7T)	4x15T)		(M.S. Billet)
2.	Re-Rolling Mill (M.S. Coil/TMT Bar)	16550 TPA (1x50 TPD)	246926 TPA (Existing 1x50 TPD replaced with 1x371 TPD + 1x375 TPD)	246926 TPA (1x371 TPD + 1x375 TPD)	Re-Rolling Mill (M.S. Coil/TMT Bar)
3.	Induction Slag Grinders (Iron Metal)	--	47000 TPA	47000 TPA	Induction Slag Grinders (Iron Metal)
4.	MBF (Pig iron)	39000 TPA	No Expansion	39000 TPA	MBF (Pig iron)
5.	Iron Ore Beneficiation	94000 TPA	No Expansion	94000 TPA	Iron Ore Beneficiation

Existing status of EC :

No. of EC Granted/ Proposed	Manufacturing Facilities	Product	Capacity	EC grant details
M.S. Billet (Old)	Induction Furnace	M.S. Billet	21240 TPA	--
1 <sup>st</sup> EC (Granted) EAC, New Delhi	Mini Blast Furnace	Pig iron	39000 TPA (110 TPD)	F. No. J-11011/870/2008-IA II (I) on dated 28th Jul 2010

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2 <sup>nd</sup> EC (Granted  SEIAA, Jharkhand)	Induction Furnace(SMS with-CCM)	M.S Billet	10266CTPA  (290TPD)	EC/SEIAA/2013- 14/297/2014/152 5 on dated 25.08.2015
	Iron ore beneficiation plant	Iron ore beneficiation	94000TPA  (266TPD)	
3 <sup>rd</sup> EC (Proposed)	Expansion of Induction Furnace	M.S. Billet	274068  TPA	
	Rolling Mill	M.S.Coil/TMT Bar	246926  TPA	
	Slag Crusher	Iron Metal	3760 OTPA	

Material Balance of rolling mill :

Input		Output				
		Product		Waste		Total Quantity ( T )
Raw material	Quantity ( T )	Product	Quantity ( T )	Material	Quantity ( T )	
Steel Billets	2,61,942	TMT Bars	2,46,926	End cuts/ MS Roll	15,016	2,61,942
Total	2,61,942		246926		15,016	2,61,942
End Cutting & Mill Scrap(Reutilized in induction furnace)						

All the materials required for construction and operation of the plant will be transported through road. State Highway is at a distance of nearly 0.75 Km from the site.

Total Power Requirement :

Power requirement for the existing unit will be 17.0 MV is met from Damodar Valley Corporation and for the proposed expansion 6.0 MVA power will be required for existing & proposed plants that shall be met from Damodar Valley Corporation.



Units	Existing KV	Proposed requirement KV	Total Power Req.(KV)
M.S. Billet (Indn.+CCM) (Proposed Replacement = 4 x 7 MT by 4 x 15 MT Induction Furnaces)	11500	4000	15500
MBF Plant	1500	0	1500
M.S.Coil/TMT(Re-Rolling) (Proposed Dismantle)	1500 (Dismantled)	3000	3000
Iron Ore Beneficiation	500	0	500
Ind.SlagGrnder	0	500	500
Lighting & Auxiliary	2000	0	2000
<b>Total :</b>	<b>17000</b>	<b>6000</b>	<b>23000</b>

Total water requirement will be 60 KLD out of which 20 KLD will be make up water and will be sourced from Rain water harvesting pond and bore well. Waste water generated from the cooling tower blow down will be settled in the settling tank and recirculated in the process. So the plant will operate with zero effluent discharge technology. Domestic waste water will be treated through soak pit via septic tank.

DFO, Wildlife Hazaribagh vide letter no. 1575, dated 06.08.19 has certified that the Parashnath Wildlife Sanctuary is located at a distance 23105 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.

The DFO, Giridih East Division vide letter no. 2411, dated 17.08.19 is misleading. It is not clear as to whether the project site is situated beyond 250 m of nearest notified forest or not.

The CO, Giridih vide memo no. 1880, dated 26.07.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

Specific observations of the committee from the appraisal are as under :

- i. Online continuous ambient air monitoring system (CAAMS) has been installed.
- ii. Copy of the application submitted to CGWA for obtaining renewal of NOC for Ground Water Abstraction and Water audit report to be provided.
- iii. Copy of invoices raised against sale of Pig Slag to ACC Ltd., Sindri to be provided.
- iv. Copy of MOU for sale of Slag to be provided.
- v. Copy of signed agreement between Balmukund Sponge & Iron Pvt. Ltd. and Damodar Valley Corporation for Electric Power supply to be provided.
- vi. Off-site and On-site emergency plan approved by the Chief Inspector of Factories, Jharkhand to be provided.
- vii. Photograph of Occupational Health Centre for the existing unit to be provided.

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- viii. In view of observations of Regional Office, MoEF&CC, Ranchi, company to submit undertaking that machinery identified during inspection is only a dry beneficiation iron ore unit and not sinter plant.
- ix. Copy of certified compliance report of EC submitted to RO, MoEF, Ranchi to be provided.
- x. Fugitive Dust Monitoring Report of Cast House before and after installation of dedusting system to be provided.
- xi. Lay out plan of plant showing boundary wall separating Sponge iron & other division to be provided.

The Project Authorities have submitted above required documents.

Based on the presentation made and informations provided, the Committee decided that the proposal for Modernization & Expansion of Steel Melting Shop and Rolling Mill of M/s Balmukund Sponge & Iron Pvt. Ltd. (Mega Div.), Village : Manjhiladih, P.O. : Gadi Srirampur, Dist. : Giridih, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II along with special conditions as follows :

- i. A Traffic density study to be conducted and report to be submitted with the first EC compliance report.
  - ii. Maximise the quantum of Rain Water Harvesting by use and recharging the ground water.
  - iii. Mock Drill report of three successive drills required under on-site emergency plan to be submitted along with the EC compliance report.
2. Pahartoli Sand Mining Project of Sri Anil Kumar Gupta at Vill. : Pahartoli, Thana : Basia, Dist. : Gumla (5.66 Ha).
  3. Moradih, Loyadih & Polkera Balu Ghat of M/s S.G. Pro Ltd (Sri Ajay Singh) at Vill. - Moradih, Loyadih & Polkera, Dhanbad (20.39 Ha). (Proposal No. : SIA/JH/MIN/62454 /2017)
  4. Pondra Bejra Balu Ghat on Barakar River of M/s Mihijam Wine Traders (Prop: Sri Shankar Ghosh) at Vill - Pondra Bejra, Anchal - Dhanbad, Dist.- Dhanbad (14.40 Ha). (Proposal No. : SIA/JH/MIN/68159/2017)

As there has been no response from the project authorities (Sl. No. 2-4) continuously, the committee is of the view that the project authorities are no longer interested in the projects and therefore, the committee has taken a decision to recommend delisting of the project proposals.

5. Simariya Stone Deposit of M/s Pawanputra Stone Works, Vill. : Simariya, Thana : Jirwabari, Dist. : Sahibganj (6.07 Ha) (Proposal No. : SIA/JH/MIN/51685/2017)

The Project Authorities vide letter dated 25.06 2021 requested to defer appraisal of the proposal to the next SEAC meeting. The Committee considered the request and accepted the same.

6. Residential Group Housing Project of M/s Morias Infrastructure Pvt. Ltd, Village : Morabadi, Tehsil : Ranchi, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/ 195369/2021)

Name of the consultant : P and M Solution , Noida

This is new project which has been taken for appraisal on 24.06.2021.

Project is classified as Category 3(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

M/s Morias Infra Pvt. Ltd. has planned to develop a group housing project located at Plot No 45, 51, 52, Thana-Morabadi, Near Asha Shree Garden, Morabadi, Ranchi, Jharkhand. RMC has permitted the construction of proposed residential project at the project site. Project site is spread on area of 9517.99sq m(0.95 ha/2.35 acres). Project involves development of 3 nos. of residential buildings (BLOCK A (B+LGF+GF+1+Terrace Floor), BLOCK B (G+11+Terrace Floor), BLOCK C (G+11+Terrace Floor) and 1 nos. of Club House (LGF+GF+2+Terrace Floor) with the allied facilities like waste management system, storm water management system, water supply system, sewerage system, Fire Fighting Management, adequate parking facility and green area. Built-up area of project after development will be approx. 40209.83 sqm.

Geographical coordinates of the centre of project site are 23°24'0.97"N and 85°20'7.81"E. Site is flat land with average elevation of 648.48m AMSL. Ranchi junction railway station is 5.64 km away in South direction. Birsa Munda Airport: 9.26 km in South direction. Total cost of the project is Rs. 67.05 Crores.

Salient Features of the project :

S. No.	Description	Area (sqm)
A.	Plot Area	9517.99
B.	Road Widening Area	391.63
C.	Net Plot Area (A-B)	9126.36
D.	Proposed Ground Coverage (@28.45% of net plot area)	2596.64
E.	Proposed FAR (@3.16 of plot area Residential (including basement)	30109.30
F.	Basement & Lower Ground Parking Area	7757.93
G.	Non FAR Area (Strain case, Lift, Balcony, Ramp, Accessory Use)	2342.4

Accessary Use;

H.	Built-up Area (E+F+G)	40209.63
I.	Green Area (@ 34.69 % of plot area)	3302.62
J.	Drive way, open parking area & Open Area (A-BD-1)	3227.1
K.	Height	47 m
L.	No of Dwelling Units	142
M.	Nos. of Pits	05

Block Wise Dwelling Units Details :

S. No.	Building Blocks (Residential Building)	Number of Floors	Du's
1.	Block A (BF+LGF+GF+14)	17	46
2.	Block B (GF+11)	17	48
3.	Block C (GF + 11)	12	48
4.	Club House (LGF+GF+2)	4	-
Total			142

Club House Amenities details are shown in :

S. No.	Club Building Floors	Amenities
1.	Lower Ground Floor	Sports/Game zone
2.	Ground Floor	Banquet hall & Gym
3.	First Floor	Kitty Party hall, Children Gaming area, Card room, Unisex saloon, Aerobic Room, Yoga & Meditation room
4.	Second Floor	Club Rooms
5.	Terrace Floor	Solar heating system

Estimated Population :

Sl. No.	Category	No of DU/Area	Standard	Population
1.	Residents	142	4.5 person/unit	639
2.	Staff		@5%	32

*Ky*  
*72*

*7/12/20*

*MA*  
*30*

*30/11/20*  
*30/11/20*

3.	Visitors	@10%	65
	Total Residential Population		736

**Surroundings and Connectivity of the Project Site :**

Near-by Residential Areas	<ul style="list-style-type: none"> <li>• Chaputoli (0.41 km, SW)</li> <li>• Chiraundi (1.23 km, N)</li> <li>• Soren Kunj (0.73 km, S)</li> <li>• Doctors Colony (1.49 km, E)</li> </ul>
Nearest City/Town	• Project site is located in Ranchi city
District Headquarters	• Ranchi (project site is located in Ranchi city)
Nearest Schools & Colleges	<ul style="list-style-type: none"> <li>• Modern Public School (0.56 km, S)</li> <li>• Cambrian Public School Kanke Road Ranchi (2.23 km, SW)</li> <li>• Oxford Public School (2.19 km, NE)</li> </ul>
Nearest Hospitals	<ul style="list-style-type: none"> <li>• Hill View Hospital and Research Centre (1.67 km, E)</li> <li>• Heath Point (1.47 km, NE)</li> <li>• Alam Hospital and Research Centre (1.98 km, E)</li> </ul>
Nearest Water Bodies	<ul style="list-style-type: none"> <li>• Divyan Lake (0.42 km, SE)</li> <li>• Karam toil talaab (1.53 km, S)</li> <li>• Kanke Dam (2.27 km, w)</li> <li>• Ranchi Lake (3.84 km, SW)</li> <li>• Line Tank lake (3.17 km, SW)</li> </ul>
Nearest Highway & Road	<ul style="list-style-type: none"> <li>• NH 23 (2.61 km, S)</li> <li>• 7 m road (in South Direction)</li> </ul>
Nearest Railway Station	• Ranchi Junction Railway Station (5.6 km, S)
Nearest Airport	• Birsa Munda Airport (9.26 km, S)

**Water Requirement :**

Water requirement during construction phase is approx. 20-30 KLD. Source of water during construction phase will be private water tankers. Source of water during operation phase will be Municipal supply supplemented with ground water. Permission will be obtained from concerned authority prior extraction of ground water. Total water requirement during operation phase is 109 KLD out of which fresh water requirement is 62 KLD.

**Sewage generation :**

Sewage generation from the site is expected to be 78 KLD which will be treated in STP of capacity 100 proposed to be constructed at the site. Treated water from the STP will be used for flushing, Fire Fighting, DG cooling and horticulture purpose. STP will be provided with MBBR Technology.

**Calculations for Total Daily Water Demand**

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water

			(KLD)	(KLD)	requirement (KLD)
<b>Domestic</b>					
Residents	639	135	87	61	26
Staff	32	45	2	0.6	1.4
Visitors	65	15	1	0.7	0.3
<b>Total Domestic Water Demand</b>			<b>90</b>	<b>62</b>	<b>28</b>
Landscape	3302.62 sqm	3 ltr/sqm	10	-	10
Fire Fighting	1% of total water requirement		1	-	1
DG cooling	1061 KVA	0.9 l/kVA/hr	8	-	8
<b>Total</b>			<b>109</b>	<b>62</b>	<b>47</b>

**Wastewater Calculations**

Category	Total Quantity (KLD)
Domestic water Req.	62
Flushing water Req.	28
Sewage generation (@80% of the fresh + 100% flushing water requirement)	78
Capacity of STP	100
Recovered water from STP (90% of Waste water)	70
1. Flushing	28
2. Landscaping	10
3. Fire Fighting	1
4. DG cooling	8
5. Swimming Pool Make up water/Construction in nearby areas/road washing/sewer	23

Power Requirement :

Maximum power demand for the project during construction and operation phase is estimated to be 50 kVA and 1061 kVA respectively. Source of power will be Jharkhand State Electricity board. 3 no. of DG set of Total 1061 kVA (360 KVA + 350KVA + 340 KVA) will be provided as power back-up during power failure.

**Vehicle Parking Facilities :**

Adequate parking of 334 No. will be provided to accommodate the expected vehicles during operation phase of the project in line with the requirement of Local Building by Laws

S. No.	Parking Type	Prop No. / ECS	Prop Area
1.	Car Parking	247	3087.50
2.	Visitors car parking	35	437.50
3.	Two wheeler parking	249	498.00
4.	Loading/Unloading Parking	1	26.25
5.	Other parking	2	3980.98
6.	Total Area	334	8030.23

**Vehicle Parking Facilities :**

Adequate parking of 334 No. will be provided to accommodate the expected vehicles during operation phase of the project in line with the requirement of Local Building by Laws.

**Solid Waste Generation and Management**

**Construction Phase**

Solid waste will be generated both during construction as well as during operation phase. Solid waste generated during construction phase will be majorly excavated materials, cement bags, bricks, concrete, MS rods, tiles, wood etc. Construction waste will be segregated into re-usable, recyclable and reject fraction. Re-usable waste will be stored at site, recyclable material will be sold to authorized vendor and rejected material will be disposed off at the designated areas of RMC.

**Solid waste management during construction phase**

S. No.	Solid waste	Solid waste management
1.	Waste materials like MS Rods, bricks, concrete, broken tiles, wood pieces, cement bags etc.	Construction waste will be segregated into recyclable/reusable and discarded material. Recyclable material will be sold to authorize dealers. Re-usable material will be stored under covered conditions at site and reject will be disposed off at the designated locations by RMC. Waste will be transported in covered vehicles only.
2.	Excavated Soil	Top soil will be stripped off and stored in covered condition. Top soil will be used for landscaping within the project site. Remaining excavated soil will be used within the site for filling and leveling and construction

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		of roads. Excess muck will be disposed off through authorized vendors. Total muck generation will be approx 6879 cum.
3.	Domestic Waste	Domestic waste generated by labor at the site will be disposed off through local agencies in the area on daily basis.

### Operation phase

During operation phase, waste comprise of municipal waste. It is estimated that approx. 349 kg per day (0.5 kg per capita per day for the residents, 0.15 kg per capita per day for the visitor, 0.25 kg per capita per day for the staff members, whereas 0.2 kg/acre/day is considered for landscape waste) to be generated from project site.

### Calculation of Solid Waste Generation

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	639	0.5	319	255	64
2.	Staff	32	0.25	8	6	2
3.	Visitors	65	0.15	10	8	2
4.	Landscape waste	0.81 acres	0.2 kg/acres	1	1	-
5.	STP sludge	100 KLD	--	11	9	2
Total Waste Generated				349	279	70

### Green Area :

Total green area provided at the site is 3302.62 sq m (34.69 % of plot area). Number of trees as per MoEF&CC norms (1 tree per 80 sqm of plot area). Plot area= 9517.99 Sqm. Number of trees=9517.99/80=119

DFO, Wildlife Ranchi vide memo no. 57, dated 16.01.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Ranchi Division vide letter no. 261, dated 22.01.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Badagai, Ranchi vide letter no. 57, dated 27.01.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

During the appraisal the following are specific observation of committee :

- i. Undertaking regarding tree cutting.
- ii. Maximum use of Solar Energy.
- iii. One day post monsoon data (air, Water, Noise & Soil) with Geo-Coordinates.
- iv. Environmental Management Cost for solid waste management – To include solid waste management cost during the construction phase also.
- v. Evacuation plan for Disaster Management

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- vi. Water calculation flow diagram during Non-Monsoon : To revise the factual data of flushing water requirement.
- vii. Activities proposed under CER.
- viii. Details regarding E.W.S. with geo coordinates and Google map.
- ix. Details of green area.

The Project Authorities have submitted above required documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Residential Group Housing Project of M/s Morias Infrastructure Pvt. Ltd, Village : Morabadi, Tehsil : Ranchi, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - III

7. Bishanpur Stone Deposit Mining Project of Sri Pawan Kumar Tanwani, Village : Bishanpur, Tehsil : Pakur, Dist : Pakur, Jharkhand (1.26 Ha).

(Proposal No. : SIA/JH/MIN/58411/2020)

Name of the consultant : P and M Solution , Noida

This is a new project which has been taken for appraisal on 24.06.2021.

This is a Stone Mining Project with an area of 1.26 Ha [Khata No. 14, 15, 16, 18, 20, 23, 37, 46, Plot no. 1006, 1007, 1010, 1011, 1014, 1015, 1312, 1313, 1314, 1319, 1320 & 1321.]. The Letter of intent (LoI) has been issued by District Mining Office, Pakur, Jharkhand vide letter no. 1430/M dated 27.08.2019. The nearest railway station is Pakur at a distance of 4.8 km and nearest airport is Surichua, at a distance of 48 km SW. Total water requirement is 13.70 KLD (Drinking : 0.30 KLD, Dust Suppression : 5.65 KLD, Plantation : 7.72 KLD).

The allocated project cost is Rs 40.00 Lakhs and a provision of capital cost 20.05 Lakh , recurring cost Rs 4.50 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°36'29.58"N	87°49'13.25"E
24°36'34.55"N	87°49'19.15"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 31,958 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	6400
2 <sup>nd</sup>	6394
3 <sup>rd</sup>	6397
4 <sup>th</sup>	6393
5 <sup>th</sup>	6374

The proposed production capacity is 6400 cum per annum. Life of Mine is 5 years.

DFO, Wildlife Hazaribagh vide letter no. 1430, dated 25.07.2019 certified that the Udhwa Lake Bird Sanctuary is 39,390 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 755, dated 09.07.2019 certified that the distance of notified forest is 1080 m from proposed project site.

The CO, Pakur vide letter no. 1246, dated 10.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMC, Pakur vide memo no. 1791, dated 15.10.2019 certified that altogether total mining in the area is more than 5 ha (13.45 Ha) in the radius of 500 m.

This project site has mentioned in District Survey Report (DSR) of Pakur district.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- ii. Revised Form-I, Pre-Feasibility Report and EMP cost to be submitted.

The Project Authorities have submitted above required documents.

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 23, 24, 25, 26 & 28.06.2021, the Committee recommends 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 for

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issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

SEIAA is requested to take decision on the "recommendation" of SEAC, 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.

8. Karma Stone Deposit of M/s Karma Stone Mining, Village : Karma, Thana : Birni, Dist.- Giridih, Jharkhand (0.813 Ha).

(Proposal No. : STA/JH/MIN/204004/2021)

Name of the consultant : P and M Solution , Noida

This is a new project which has been taken for appraisal on 24.06.2021.

This is a Stone Mining Project with an area of 0.813 Ha [Khata no. 4, 5 and 10, Plot no. 396(P), 399(P), 400(P), 401(P), 414(P) and 416(P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Giridih, Jharkhand vide letter no. 257/M dated 04.03.2021. The nearest railway station is Hazaribagh at a distance of 22.40 km SW and nearest airport is Birsa Munda, at a distance of 132.30 km SW. Total water requirement is 9 KLD. (Drinking : 0.23 KLD, Dust Suppression : 4.39 KLD, Plantation : 3.90 KLD)

The allocated project cost is Rs 10.00 Lakhs and a provision of capital cost 13.50 lakh, recurring cost Rs 9.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°17'48.91"N	86°03'57.3850"E
24°17'53.64"N	86°04'0.019"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,50,212.3 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	15732.00
2 <sup>nd</sup>	15595.20
3 <sup>rd</sup>	15777.60
4 <sup>th</sup>	15686.40
5 <sup>th</sup>	15549.60

The proposed production capacity is 15777.6 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribagh vide letter no. 481, dated 08.03.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Giridih West Division vide letter no. 243, dated 19.02.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, (Birm), Giridih vide letter no. 170, dated 13.02.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhar" in R.S Khatiyar & Register II.

DMO, Giridih vide memo no. 262, dated 04.03.2021 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC -cum-District Magistrate, Giridih vide letter no. 502, dated 07.06.2021 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

i. Undertaking to be submitted affirming :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. 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 PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

ii. Revised Form-I, Pre-Feasibility Report and EMP cost to be submitted.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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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 Karma Stone Deposit of M/s Karma Stone Mining, Village : Karma, Thana : Birni, Dist.- Giridih, Jharkhand (0.813 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific condition.

9. Joramoh Stone Mine of Mr. Aftab Alam, Village : Joramoh, Thana : Madhupur, Dist.- Deoghar, Jharkhand (0.769 Ha).

(Proposal No. : SIA/JH/MIN/201200/2021)

Name of the consultant : P and M Solution , Noida

This is a existing project which has been taken for appraisal on 24.06.2021.

This is a Stone Mining Project with an area of 0.769 Ha [Plot no. 287, 288 & 289(P)]. The nearest railway station is Jagadishpur at a distance of 3.85 km and nearest airport is Atal Bihari Vajpayee International Airport at a distance of 23.20 km. Total water requirement is 4.50 KLD. (Drinking : 0.20 KLD, Dust Suppression : 2.22 KLD, Plantation : 2.04 KLD)

The allocated project cost is Rs 15.00 Lakhs and a provision of capital cost 7.15 Lakh, recurring cost Rs 7.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°18'26.46"N	86°31'58.13"E
24°18'29.29"N	86°32'02.65"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 63,600 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	7407.42
2 <sup>nd</sup>	7407.42
3 <sup>rd</sup>	7407.42
4 <sup>th</sup>	7407.42
5 <sup>th</sup>	7407.42

The proposed production capacity is 7407.42 cum per annum. Life of Mine is 09 years.

DFO, Wildlife Hazaribagh vide letter no. 422, dated 01.03.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Deoghar Division vide letter no. 1218, dated 19.05.2017 certified that the distance of notified forest is 160 m from proposed project site.

The CO, Madhupur vide letter no. 230, dated 13.04.2021 has mentioned the plot no. of the project is not recorded as "Jangle Ihari" in R.S Khatiyani & Register II.

DMO, Deoghar vide memo no. 266, dated 13.03.2021 certified that no other lease exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Deoghar district.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- ii. Revised Form-I, Pre-Feasibility Report and EMP cost to be submitted.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Joramoh Stone Mine of Mr. Aftab Alam, Village : Joramoh, Thana : Madhupur, Dist.- Deoghar, Jharkhand (0.769 Ha) is recommended for grant

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of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific condition.

10. Expansion & Modernization Project of M/s Mongia Steel Ltd., Mouza :Dandidih (Burhiadih), Tehsil & Dist. : Giridih, Jharkhand.

(Proposal No. : SIA/JH/IND/36503 /2019)

Name of the consultant : M/s Vardan Environet.

This is a expansion project which has been taken for appraisal on 24.06.2021.

The proposed expansion project of M/s Mongia Steel Limited is located at Mouza Dandidih (Burhiadih), District Giridih, Jharkhand initially applied in the SEIAA/SEAC, Jharkhand on 03.09.2019 for obtaining Terms of Reference (ToR) as per EIA Notification, 2006. The State Expert Appraisal Committee, Jharkhand deliberated the project during its 78<sup>th</sup> meeting held on 19th September, 2019 and SEIAA, Jharkhand has approved the ToRs in its meeting held on 25th September 2019. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 545, date 09.10.2019.

The final EIA / EMP submitted by PP to SEIAA on 17.06.2021 and which was forwarded to SEAC on 18.06.2021.

The company was set up in the year 1996 initially, after obtaining NOC from Bihar State Pollution Control Board on 18.07.1996 for setting up of steel plant for production of 50 TPD Billets and 10 TPD TMT Bars. In the year 2011, the company changed its name from Mongia Hi-Tech Pvt. Ltd to Mongia Steel Limited after necessary amendment in the Registrar of Companies (ROC). Further expansion was carried out after obtaining Environment Clearance from SEIAA, Jharkhand vide letter No. EC/SEIAA/2014-2015/569/2014/310 dated 13.12.2018 and subsequent CTE granted by JSPCB vide No JSPCB/HO/RNC/CTE-3579450/2019/294 dated 01.05.2019 for production of 240 TPD TMT Bars and 60 TPD Pipes & shutter strips.

The proposed expansion project of Mongia Steel Limited is envisaged for capacity expansion for production of TMT Bars from 72,000 TPA to 277,200 TPA and Pipes, shutter strips, angles channels from 18000 TPA to 99000 TPA by installing additional facilities of 2x15 T and 3x20 T Induction furnace with CCM and 600 TPD Rolling mill. The existing unit of Strip mill will be enhanced in capacity from 60 to 300 TPD. The existing Induction furnace of 2x15 Tons and TMT Bar Mill of 240 TPD will continue to operate along with proposed units. The total working days will be increased from 300 to 330 days. Additionally, 66000 TPA capacity Slag Crusher unit shall also be installed. The proposed capacity for different products for site are as below:

Plant	Existing			Proposed (Total after the proposed expansion)		
	Unit	Days of Operation	Capacity TPA	Unit	Days of Operation	Capacity TPA
Steel Melting Shop	2x15 Ton	300	90000	2x15 Ton (Existing)	330	396000
Induction				2x15 Ton		
				3x20 Ton		

Plant	Existing			Proposed (Total after the proposed expansion)		
	Unit	Days of Operation	Capacity TPA	Unit	Days of Operation	Capacity TPA
Furnace with Continuous Casting Machine (CCM)						
Producer Gas plant	1	300	9,000 Nm <sup>3</sup> /hr-	No Producer Gas Plant (Existing unit to be dismantled and removed)		
Reheating Furnace	1x30 TPH	300	90000	No Re-heating Furnace unit (Existing unit to be dismantled and removed)		
Rolling Mill TMT Bar Mill - 1	240 TPD	300	72000	240 TPD	330	79,200
TMT Bar Mill - 2	--	--	--	600 TPD	330	198,000
Strips Mill (Pipes, Shutter strips, angles, Channels etc)	50 TPD	300	18000	300 TPD	330	99,000
Slag Crusher Unit	--	--	--	2x100 TPD	330	66000 (Metal Recovery - 3300 TPA)

No additional land shall be acquired for the project and the entire project shall be installed within existing plant area of 12.67 ha. No forestland is involved. It has been reported that no water body/ water body exist at the project site and modification/diversion in the existing natural drainage pattern at any stage has not been proposed.

The topography of the area is Gently undulating and reported to lies between 24.15722 to 23.16083 Latitude and 85.32430 to 86.32861 E Longitude in Survey of India Topo sheet 72 L/4 & 72 L/8 at an elevation of 312 m AMSL. The ground water table is reported in ranges between 4.82 to 6.21 mbgl during the post-monsoon season and 8.20 to 9.80 mbgl during the pre-monsoon season.

The process of project showing the basic raw material used and the various processes involved to produce the final output, waste generated in process.

Basic Raw Material Used

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Raw Materials	Total Raw materials required After Expansion	Storage	Source	Transportation by Road (km)
<b>Induction Furnace (Total after expansion: 396,000 TPA)</b>				
Sponge Iron	316,800 TPA	Shed	Local Plants in Giridih through Road	5 km
Pig Iron	99,000 TPA	Shed	In-house & nearby plants through Road	250 km
Scrap	47,520 TPA	Shed	Local Plants in Giridih through Road	110 km
Ferro Alloys (Si/Mn/FaSi)	792 TPA	Drums		
<b>Total</b>	<b>464,112</b>			
<b>Billet Caster (Total after expansion: 388,235 TPA)</b>				
Liquid Steel	396,000	-	In house	
<b>Rolling Mill - TMT Bars (Total after expansion: 277,200 TPA )</b>				
Hot Billets	282,720	-	in-house - Hot Billets direct charging	
<b>Strips Mill- Shutter strips, channels etc. (Total after expansion: 99,000 TPA )</b>				
Hot Billets	100,800	-	In-house - Hot Billets direct charging	

### Process involved

TMT bars and steel Strips production through Induction Furnace, Billet Caster, Rolling Mill and Strip Mill. Slag Crushing plant of 2x100 TPD is also proposed to be installed for metal recovery of the slag.

### Waste Generated in the proposed project

Units	Solid Wastes	Total Qty In TPA	Disposal practice
Induction Furnace	Slag	28380	After Metal extraction of slag it will be supplied to our sister concern M/s Santpuria Alloys Pvt. Ltd. unit II for fly ash bricks manufacturing.
TMT Bar Mill&	Mill	5260	Recycled in-house along

Strips Mill	Scale		with scrap in the induction furnace.
Bag Filter Dust from process	Dust from process	2850	Partly recycled (metal content). Rest supplied to our sister concern M/s Santpuria Alloys Pvt Ltd. unit II for fly ash bricks manufacturing.

The targeted saleable capacities of TMT Bars and Steel Strips (Shutter Strip, Channels, Pipes, angles) are 277200 and 99000 TPA respectively. The raw material transportation will be done through road only.

The water requirement of the project is estimated as 120 m<sup>3</sup> /day requirement will be obtained through Ground water. The permission for drawl of water will be obtained from CGWA.

The power requirement of the project is estimated 40 MVA out of which shall be supplied through Damodar Valley Corporation. Existing power demand is 18 MVA.

Baseline Environmental Studies were conducted during Winter Season i.e. from 01.12.2019 to 29.02.2020. Ambient air quality monitoring has been carried out at 8 locations during study period indicated. PM10 (42.8 to 83.1 µg/m<sup>3</sup>), PM2.5 (18.0 to 49.8 µg/m<sup>3</sup>), SO<sub>2</sub> (8.1 to 26.9 µg/m<sup>3</sup>) and NO<sub>x</sub> (11.6 to 39.4 µg/m<sup>3</sup>). The results of the modeling study indicate that the maximum increase of GIC for the proposed project is 1.15 µg/m<sup>3</sup> with respect to the PM<sub>10</sub>, 0.61 µg/m<sup>3</sup> with respect to PM2.5, 0.58 µg/m<sup>3</sup> with respect to SO<sub>2</sub> and 0.44 µg/m<sup>3</sup> with respect to the NO<sub>x</sub>.

Ground water quality has been monitored in 8 locations in the study area and analyzed. pH: 7.15 to 8.01, Total Hardness: 185 to 235.1 mg/l, Chlorides: 50 to 61 mg/l, Fluoride: 0.22 to 0.38 mg/l. Heavy metals are within the limits. Surface water samples were analyzed from 8 locations. pH: 7.36 to 7.72, DO: 4.80 to 5.96 mg/l, BOD: 6.0 to 13.0 mg/l and COD from 18 to 41 mg/l.

Noise levels are in the range of 47.67 to 71.60 dB (A) for day time and 38.10 to 67.43 dB (A) for night time. No RBR is involved as no land has been acquired for the project.

It has been reported that the latest Consent to Operate from the Jharkhand State Pollution Control Board was obtained vide Lr. No. JSPCB/HO/RNC/CTO-8002611/2020/1612 dated 30.09.2020 and consent is valid up to 30.06.2021.

Public hearing is a very significant part of the process of public participation envisaged under guidelines issued by MoEF&CC, Government of India. It facilitates involvement of all the stake holders of the project which is essential for ensuring smooth running of project and benefitting all section of society in the process of economic development of the region. The public hearing for Mongia Steel Limited is exempted as per ToR issued by SEIAA, Jharkhand, Since the Public hearing was conducted on 26.03.2017 which is below 3 years as per MoEF&CC OM dated 29.08.2017. An amount of Rs 68.5 Lakhs (1% of Project cost) has been earmarked for CER based on public hearing / Socio-economic issues.

by  
to

*[Handwritten signatures and initials]*

The capital cost of the proposed project is Rs 68.48 Crores and the capital cost for environmental management is proposed as Rs 208 Lakhs. The annual recurring cost towards the environmental management is proposed as Rs 30.50 Lakhs/year. An amount of Rs 68.5 Lakhs (1% of Project cost) has been earmarked for CER based on previous public hearing issues and need based assessment. The employment generation from the proposed project of expansion is 172.

Green Belt will be developed over 33% of the plant area. Indigenous trees will be planted in 4.18 Ha. out of the total area of 12.67 Ha. Existing green belt area is 0.433 Ha and about 935 No. of trees are planted in the area. An additional land of 3.64 Ha. has also been developed as greenbelt with around 4000 trees planted. Tree density of 1600 trees per hectare with local board leaf specification will be planted in future after expansion. A 10 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 1600 trees per hectare.

The proponent has mentioned that there is no court case or violation under EIA Notification to the project or related activity.

DFO, Wildlife Hazaribagh vide letter no. 1396, dated 20.07.19 certified that the Parasnath Wildlife Sanctuary is 24048 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.

DFO, Giridih East Division vide letter no. 1434, dated 18.06.18 certified that the distance of notified forest is more than 2699.34 m from proposed project site.

The CO, Giridih vide memo no.2622, dated - 10.09.18 has mentioned that the proposed site is not recorded as Jangal Jhari.

Specific observations of the committee from the appraisal are as under :

- i. Compliance report of issues raised from inspection by the RO, MoEF&CC, Ranchi to be submitted.
- ii. Location of Collection pond of the run-off water marked on lay out plan to be provided.
- iii. All the barren land available within the premises to be utilized for maximising green cover. Undertaking for same to be provided.
- iv. Photographs showing environmental monitoring machines for baseline study to be provided.
- v. Photographs showing positioning of suction hood fitted to Dust Extraction (DE) system with respect to furnace to be provided.
- vi. Photographs of Oil Skimmer along with Water quality report for inlet and outlet of effluent treatment plant to be provided.
- vii. Mock Drill report required under on-site emergency plan to be submitted.
- viii. Issues raised during Public hearing and commitment made by the management to be provided in tabular form.
- ix. Tree inventory of existing plant to be provided.

- x. Details of proposed CER activities to be provided.

The Project Authorities have submitted above required documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Expansion & Modernization Project of M/s Mongia Steel Ltd., Mouza : Dandidih (Burhiadih), Tehsil & Dist. : Giridih, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II along with special conditions as follows.

- i. Mock Drill report of three successive drills required under on-site emergency plan to be submitted along with the EC compliance report.
- ii. Carbon foot print study to be carried out within 03 years and the study report to be submitted with the EC compliance.

Day 3 : June 25, 2021 [Friday]

Consideration of Proposals

1. Hatudami Stone Mining Project of M/s Sandcube Infrastructure Pvt. Ltd., Village : Hatudami, Thana : Khunti, Dist.- Khunti, Jharkhand (3.09 Ha).

(Proposal No. : SIA/JH/MIN/202102/2021)

Name of the consultant : P and M Solution , Noida

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 3.09 Ha [Khata no. 56, Plot no. 185]. The nearest railway station is Balasing at a distance of 11.50 km and nearest airport is Birsa Munda Airport, Ranchi at a distance of 15.20 km. Total water requirement is 11.30 KLD. (Drinking : 0.34 KLD, Dust Suppression : 6.12 KLD, Plantation : 4.86 KLD).

The allocated project cost is Rs 40.00 Lakhs and a provision of capital cost 9.25 Lakh, recurring cost Rs 7.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
23°10'50.00"N to 23°10'58.30"N	85°20'26.01"E to 85°20'33.13"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 3,75,164 cum

Year-wise Production as per Approved Mining Plan Report for four years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	1,10,925
2 <sup>nd</sup>	1,10,805
3 <sup>rd</sup>	1,10,925

The proposed production capacity is 1,10,940 cum per annum. Life of Mine is 4.002 years.

DFO, Wildlife Ranchi vide memo no. 192, dated 23.02.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Khunti Division vide letter no. 2176, dated 12.12.2017 certified that the distance of notified forest is 450 m from proposed project site.

The CO, Khunti vide letter no. 972, dated 11.12.2017 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyari & Register II.

DMO, Khunti vide memo no. 798, dated 02.01.2018 certified that no other lease is exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Khunti district.

Specific observations of the committee from the appraisal are as under :

- i. Revised Form-I, Pre-Feasibility Report and EMP cost to be submitted.
- ii. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Hatudami Stone Mining Project of M/s Sandcube Infrastructure Pvt. Ltd., Village : Hatudami, Thana : Khunti, Dist.- Khunti, Jharkhand (3.09 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific condition.

2. Laharjori Stone Deposit of Sri Hiralal Mandal, Sri Shatrughan Mandal & Sri Baidyanath Kumar Yadav, Village : Laharjori, Thana : Margomunda, Tehsil : Karon, Dist. : Deoghar, Jharkhand (1.695 Ha).

(Proposal No. : SIA/JH/MIN/202209/2021)

Name of the consultant : P and M Solution , Noida

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 1.695 Ha [Khata no. 68 & 22, Plot no. 2271 (P), 2272, 2273 & 2274 (P)] The Letter of Intent (LoI) has been issued by District Mining Office, Deoghar, Jharkhand vide letter no. 160/M dated 06.02.2021. The nearest railway station is Madhupur at a distance of 13.05 km and nearest airport is Atal Bihari Vajpayee International Airport, Ranchi at a distance of 33.40 km. Total water requirement is 10.82 KLD. (Drinking : 0.23 KLD, Dust Suppression : 5.88 KLD, Plantation : 4.71 KLD)

The allocated project cost is Rs 20.00 Lakhs and a provision of capital cost 8.90 Lakh, recurring cost Rs 7.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°09'23.4961"N to 24°09'30.0885"N	86°36'15.5002"E to 86°36'20.5440"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,50,347 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	16,701.50
2 <sup>nd</sup>	16,703.50
3 <sup>rd</sup>	16,703.40
4 <sup>th</sup>	16,702.40
5 <sup>th</sup>	16,704.00

The proposed production capacity is 16,704 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribag vide letter no. 1195, dated 08.07.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Deoghar Division vide letter no. 999, dated 16.06.2020 certified that the distance of Reserved / Protected forest is 250 m from proposed project site.

The CO, Margomunda vide letter no. 315, dated 25.09.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Deoghar vide memo no. 307, dated 17.03.2021 certified that no other lease exists within 500 m radius from proposed project site.

The DC -cum-District Magistrate, Deoghar vide letter no. 143, dated 19.02.2021 has informed that this project is part of District Survey Report (DSR) at Deoghar district and accordingly necessary action with regard to Environmental Clearance can be taken.

A complain regarding presence of River within 100 m, habitation within 300 m etc. wrt to project site was received by SEAC through SEIAA. Matter was taken up with PP of the project during appraisal. In reply PP submitted certified compliance report from Mukhiya stating that no such structures exist in the area as mentioned in the complain. Mandatory CO certificate containing appropriate check list submitted to this office along with project proposal also supports the views expressed by Mukhia and PP. This adequately clarifies that charges framed against the proposal are wrong and baseless.

Specific observations of the committee from the appraisal are as under :

- i. Revised Form-I, Pre-Feasibility Report and EMP cost to be submitted.
- ii. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.

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- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Laharjori Stone Deposit of Sri Hiralal Mandai, Sri Shatrughan Mandal & Sri Baidyanath Kumar Yadav, Village : Laharjori, Thana : Margomunda, Tehsil : Karon, Dist. : Deoghar, Jharkhand (1.695 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific condition.

3. Bishanpur Stone Deposit of Sri Bhawesh Tanwani, Village : Bishanpur, Tehsil : Pakur, Dist : Pakur, Jharkhand (2.17 Ha).

(Proposal No. : SIA/JH/MIN/58419/2020)

Name of the consultant : P and M Solution , Noida

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 2.17 Ha (Khata No. 5, 9, 10, 19, 23, 26, 32, Plot no. 1000 & 1001, 998, 996, 992, 993 & 994, 997 & 999,). The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, Jharkhand vide letter no. 1429/M dated 27.08.2019. The nearest railway station is Pakur at a distance of 5.0 km and nearest airport is Surichua, at a distance of 49 km SSW. Total water requirement is 11.56 KLD (Drinking : 0.30 KLD, Dust Suppression : 5.62 KLD and Plantation : 5.64 KLD).

The allocated project cost is Rs 50.00 Lakhs and a provision of capital cost 8.22 Lakh , recurring cost Rs 7.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°36'27.05"N	87°49'09.14"E
24°36'33.64"N	87°49'15.29"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,97,676 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows



Year	Production of stone (cum)
1 <sup>st</sup>	59538
2 <sup>nd</sup>	59541
3 <sup>rd</sup>	59546
4 <sup>th</sup>	59536
5 <sup>th</sup>	59515

The proposed production capacity is 59546 cum per annum. Life of Mine is 5 years.

DFO, Wildlife Hazaribagh vide letter no. 1429, dated 25.07.2019 certified that the Uohwa Bird Lake Sanctuary is 41,160 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 752, dated 09.07.2019 certified that the distance of notified forest is 1060 m (distance from Durgapur Sal Forest).

The CO, Pakur vide letter no. 1221, dated 05.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Pakur vide memo no. 1792, dated 16.10.2019 certified that altogether total mining in the area is more than 5 ha (13.45 Ha) in the radius of 500 m.

This project site has mentioned in District Survey Report (DSR) of Pakur district.

Specific observations of the committee from the appraisal are as under :

- i. Revised Form-I, Pre-Feasibility Report and EMP cost to be submitted.
- ii. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

K2  
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The Project Authorities have submitted above required documents.

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 23, 24, 25, 26 & 28.06.2021, the Committee recommends 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 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

SEIAA is requested to take decision on the "recommendation" of SEAC, 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.

4. Talpahari Stone Deposit of M/s Manoj Stone Works, Village - Talpahari, Thana - Hiranpur, Dist - Pakur, Jharkhand (2.541 Ha).

(Proposal No. : SIA/JH/MIN/196123/2021)

Name of the consultant : P and M Solution , Noida

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 2.541 Ha {Khata no. 3, Plot no. 426(P), 429, 430, 435, 436, 437, 438, 439, 440, 441 & 442}. The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, Jharkhand vide letter no. 1328/M dated 27.08.2020. The nearest railway station is Tilbhita at a distance of 6.0 km ESE and nearest airport is Birsa Munda Airport, Ranchi at a distance of 294 km SW. Total water requirement is 17.56 KLD (Drinking : 0.43 KLD, Dust Suppression : 7.23 MLD, Plantation : 9.9 KLD).

The allocated project cost is Rs 20.00 Lakhs and a provision of capital cost 10.81 Lakh, recurring cost Rs 7.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°41'59.0669"N	87°47'14.1207"E
24°42'05.3601"N	87°47'23.2693"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,52,631.95 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	25512.05
2 <sup>nd</sup>	25496.76
3 <sup>rd</sup>	25481.47
4 <sup>th</sup>	25450.88

5 <sup>th</sup>	25466.17
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The proposed production capacity is 25512.22 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribagh vide letter no. 2198, dated 30.12.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 1272, dated 18.10.2019 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Hiranpur vide letter no. 519, dated 10.10.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Pakur vide memo no. 1691, dated 22.09.2020 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

This project site has mentioned in District Survey Report (DSR) of Pakur district.

Specific observations of the committee from the appraisal are as under :

- i. Revised Form-I, Pre-Feasibility Report and EMP cost to be submitted.
- ii. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first

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year. Maintenance work such as h/v, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Talpahari Stone Deposit of M/s Manoj Stone Works, Village – Talpahari, Thana – Hiranpur, Dist – Pakur, Jharkhand (2.541 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific condition.

5. Baliapatra Stone Deposit of Sri Abhinash Kumar Bhagat, Village : Baliapatra, Thana: Maheshpur, Dist. : Pakur, Jharkhand (2.343 Ha).

(Proposal No. : SIA/JH/MIN/198373/2021)

Name of the consultant : P and M Solution , Noida

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 2.343 Ha [Khata no. 21, 22, 15, Plot no. 419, 693, 694, 695, 701, 702, 703, 704, 708, 709, 710, 711, 716, 717, 718, 719, 720, 721 & 722]. The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, Jharkhand vide letter no. 344/M dated 26.02.2020. The nearest railway station is Chatra at a distance of 10.75 km E and nearest airport is Birsa Munda Airport, Ranchi at a distance of 272 km SW. Total water requirement is 11.82 KLD (Drinking : 0.34 KLD, Dust Suppression : 6.2 KLD, Plantation : 5.28 KLD).

The allocated project cost is Rs 20.00 Lakhs and a provision of capital cost 9.925 Lakh, recurring cost Rs 7.00 Lakh per year has been allocated/apportioned for Environment management

Co-ordinates of the mine :

Latitude	Longitude
24°22'15.8905"N	87°44'28.4697"E
24°22'23.1307"N	87°44'38.1679"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,71,342.8 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	27189.0
2 <sup>nd</sup>	27143.4
3 <sup>rd</sup>	27130.6
4 <sup>th</sup>	27120.6

5 <sup>th</sup>	27046.5
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The proposed production capacity is 27189 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribagh vide letter no. 2470, dated 09.11.2019 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 1333, dated 31.10.2019 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CG, Maheshpur vide letter no. 838, dated 23.10.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Pakur vide memo no. 1387, dated 10.09.2020 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

This project site has mentioned in District Survey Report (DSR) of Pakur district.

Specific observations of the committee from the appraisal are as under :

- i. Revised Form-I, Pre-Feasibility Report and EMP cost to be submitted.
- ii. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. Maintenance work such as n/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Baliapatra Stone Deposit of Sri Abhinash Kumar Bhagat, Village : Baliapatra, Thana: Maheshpur, Dist. : Pakur, Jharkhand (2.343 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

6. Bhuska Stone Deposit of Sri Piyush Tanwani, Village : Bhuska, Tehsil : Pakur, Dist.: Pakur, Jharkhand (2.20 Ha).

(Proposal No. : SIA/JH/MIN/58404/2020).

Name of the consultant : P and M Solution , Noida

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 2.20 Ha (Khata no. 10 Plot no. 863, Khata no. 16 Plot no. 865, 866, 867, 871, 872, 873, 874, 875, 876 & 879, Khata no. 19 Plot no. 864 & 870, Khata no. 25 Plot no. 877 & 878, Khata no. 26 Plot no. 862, 868 & 869). The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, Jharkhand vide letter no. 1431/M dated 27.08.2019. The nearest railway station is Pakur at a distance of 4.8 km ENE and nearest airport is Surichua, at a distance of 48.50 km SSW. Total water requirement is 9.10 KLD (Drinking : 0.30 KLD, Dust Suppression : 3.80 KLD, Plantation : 5.0 KLD).

The allocated project cost is Rs 50.00 Lakhs and a provision of capital cost 6.80 Lakh , recurring cost Rs 7.00 Lakh per year has been allocated/apportioned for Environment management

Co-ordinates of the mine :

Latitude	Longitude
24°36'26.22"N	87°49'19.03"E
24°36'32.90"N	87°49'25.25"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,81,450 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	56318
2 <sup>nd</sup>	56240
3 <sup>rd</sup>	56247
4 <sup>th</sup>	56297
5 <sup>th</sup>	56348

The proposed production capacity is 56348 cum per annum. Life of Mine is 5 years.

श्री विद्युष तनवानी,  
पिता-श्री अनील तनवानी,  
सिन्धीपाड़ा, पाकुड़

आशय का पत्र (Letter of Intent)

उपर्युक्त विषय के संबंध में सूचित करना है कि आपके द्वारा खनन पट्टा नं०-10, 16, 19, 25, 26 के लिए दिए गए आवेदन पत्र के आलोक में आवेदित क्षेत्र जिसका विवरणी नीचे दी गई है, पर खनन पट्टा स्वीकृति हेतु सैद्धान्तिक सहमति झारखण्ड लघु खनिज विभाग नियमावली 2004 के नियम 11(क) के तहत उपायुक्त, पाकुड़ के आदेश दिनांक 27.06.2019 के आलोक में 'आशय का पत्र' निर्गत की जाती है।

क्षेत्र का विवरण :-	पाकुड़ अंचलान्तर्गत मौजा-भुषका नं०-43 के जमाबन्दी नं०-10, 16, 19, 25, 26
खण्ड नं० :-	862, 863, 864, 865, 866, 867, 868 / पी०, 869 / पी०, 870, 871, 872, 873, 874, 875, 876, 877 / पी०, 878 / पी० एवं 879
खण्ड :-	5.43 1/2 एकड़
मौजा/पोस्ट/थाना :-	पाकुड़
आवेदन की तिथि :-	27.06.2019
आवेदन की आवेदित अवधि :-	संविद निष्पादन की तिथि से 10 वर्षों के लिए

आप अनुमोदित खनन योजना तथा सक्षम प्राधिकार से प्रदत्त पर्यावरणीय प्रमाण-पत्र यथाशीघ्र दाखिल करें, ताकि खनन पट्टा स्वीकृति हेतु आगे की कार्यवाही की जा सके।

उपायुक्त, पाकुड़ के आदेशानुसार।

जिला खनन यदाधिकारी,  
पाकुड़

27/08/2019



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DFO, Wildlife Hazaribagh vide letter no. 1428, dated 25.07.2019 certified that the Udhwa Lake Bird Sanctuary is 39,350 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 756, dated 09.07.2019 certified that the distance of notified forest is 1020 m from proposed project site.

The CO, Pakur vide letter no. 1228, dated 08.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Pakur vide memo no. 1793, dated 16.10.2019 certified that altogether total mining in the area is more than 5 ha (8.40 Ha) in the radius of 500 m.

This project site has mentioned in District Survey Report (DSR) of Pakur district.

Specific observations of the committee from the appraisal are as under :

- i. Revised Form-I, Pre-Feasibility Report and EMP cost to be submitted.
- ii. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required documents.

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 23, 24, 25, 26 & 28.06.2021, the Committee recommends 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 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

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SEIAA is requested to take decision on the "recommendation" of SEAC, 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.

7. Bhakso Stone Deposit of Sri Vikash Chandra Singh, Village : Bhakso, Thana: Lohardaga, Dist. : Lohardaga, Jharkhand (1.052 Ha).

(Proposal No. : SIA/JH/MIN/193139/2021)

Name of the consultant : P and M Solution , Noida

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 1.052 Ha (Khata no. 161, Plot no. 815 & 820 (New)). The Letter of Intent (LoI) has been issued by District Mining Office, Lohardaga, Jharkhand vide letter no. 212/LI dated 15.05.2020. The nearest railway station is Lohardaga at a distance of 6.5 km NW and nearest airport is Birsa Munda Airport, Ranchi at a distance of 60 km E. Total water requirement is 3.50 KLD (Drinking : 0.30 KLD, Dust Suppression : 4.74 KLD, Plantation : 3.45 KLD)

The allocated project cost is Rs 20.00 Lakh and a provision of capital cost 6.65 Lakh, recurring cost Rs 7.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
23°29'52.55"N	84°44'30.92"E
23°23'55.62"N	84°41'34.96"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 199,480.05 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	19,948.00
2 <sup>nd</sup>	19,948.50
3 <sup>rd</sup>	19,940.50
4 <sup>th</sup>	19,945.25
5 <sup>th</sup>	19,997.92

The proposed production capacity is 19997.92 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Ranchi vide Memo no. 643, dated 10.09.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Lohardaga Division vide letter no. 3596, dated 09.08.2019 certified that the distance of notified forest is 3160 m from proposed project site.

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The CO, Lohardaga (Sadar) vide letter no. 1928, dated 07.12.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Lohardaga vide memo no. 645, dated 31.12.2020 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC-cum-District Magistrate, Lohardaga vide letter no. 123, dated 26.02.2021 has informed that this project is part of District Survey Report (DSR) at Lohardaga district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Revised Form-i, Pre-Feasibility Report and EIMP cost to be submitted.
- ii. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Fences of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required documents.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Bhakso Stone Deposit of Sri Vikash Chandra Singh, Village : Bhakso, Thana: Lohardaga, Dist. : Lohardaga, Jharkhand (1.052 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition .

8. Residential Group Housing Project "Shivam Heights" of M/s Durga Developers Pvt. Ltd, Mouza : Bada Ghaghra, Anchal : Argora, Tehsil : Ranchi, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/ 196279/2021)

Name of the consultant : P and M Solution , Noida

The Project Authorities vide letter dated 25.06.2021 requested to defer appraisal of the proposal to the next SEAC meeting. The Committee considered the request and accepted the same.

9. Lowapara Stone Mine of Shri Dilip Kumar Modi, Mouza : Lowapara, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (1.87 Ha).

(Proposal No. : SIA/JH/MIN/213236 /2021).

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

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 1.87 Ha [Khata no. 13. 08 & 03, Plot no. 36 (P), 37 (P) & 38 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 1220/M dated 10.10.2019. The nearest railway station is Pinargaria at a distance of 9.5 km and nearest airport is Kazi Nazrul Islam Airport at a distance of 71.35 km. Total water requirement is 5.15 KLD (Domestic : 1.17 KLD, Drilling & Dust Suppression : 3.38 KLD, Plantation : 0.60 KLD).

The allocated project cost is Rs 68.22 Lakhs and a provision of capital cost 12.97 Lakh , recurring cost Rs 3.60 Lakh per year has been allocated/appORTioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°11'51.45"N to 24°11'44.47"N	87°33'0.00"E to 87°32'54.09"E

The details of mine capacity as per Approved Mining Plan are :

Mineable Reserve : 1,91,711 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	38,295
2 <sup>nd</sup>	38,295
3 <sup>rd</sup>	38,373

4 <sup>th</sup>	38,388
5 <sup>th</sup>	38,361

The proposed production capacity is 38,388 cum per annum. Life of Mine is 05 years.

DFO, Wildlife Hazaribag vide letter no. 2273, dated 26.10.2019 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 3232, dated 28.09.2019 certified that the distance of Reserved / Protected forest is 250 m from proposed project site.

The CO, Shikaripara vide letter no. 868, dated 12.09.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Dumka vide memo no. 1191, dated 01.10.2019 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

i. Undertaking to be submitted affirming :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. 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 PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
- j. Traffic density study to be conducted at the individual mine head and common meeting point for the traffic originating from different mines located in the area. The study report will be submitted with EC compliance.

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The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Lowapara Stone Mine of Shri Dilip Kumar Modi, Mouza : Lowapara, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (1.87 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

10. Aamchuwan Stone Mine of Shri Bheru Lal Sharma, Mouza : Aamchuwan, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.83 Ha).

(Proposal No. : SIA/JH/MIN/213866 /2021).

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

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 2.83 Ha [Plot no. 778, 779, 780, 781 (P), 782, 783, 784 & 792 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 944/M dated 18.06.2020. The nearest railway station is Pinargaria at a distance of 4.35 km and nearest airport is Kazi Nazrul Islam Airport at a distance of 72.40 km. Total water requirement is 5.98 KLD (Domestic : 1.71 KLD, Drilling & Dust Suppression : 0.89 KLD, Plantation : 3.38 KLD).

The allocated project cost is Rs 69.45 Lakhs and a provision of capital cost 15.19 Lakh, recurring cost Rs 3.50 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°10'11.76"N to 24°10'16.53"N	87°37'15.14"E to 87°32'24.68"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 5,51,526 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	55,485
2 <sup>nd</sup>	55,422

3 <sup>rd</sup>	55,534.5
4 <sup>th</sup>	55,468.8
5 <sup>th</sup>	55,467

The proposed production capacity is 55,534.5 cum per annum. Life of Mine is 11 years.

DFO, Wildlife Hazaribag vide letter no. 1393, dated 13.08.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 1588, dated 05.08.2020 certified that the distance of Reserved / Protected forest is 250 m from proposed project site.

The CO, Shikaripara vide letter no. 296, dated 13.02.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Dumka vide memo no. 908, dated 10.06.2020 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

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Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Aamchuwan Stone Mine of Shri Bheru Lal Sharma, Mouza : Aamchuwan, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.83 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

11. Stone Mine of M/s Shubham Engineering Stone Company, Mouza : Kulgo, Block : Dumri, Dist. : Giridih, Jharkhand (2.68 Ha).

(Proposal No. : SIA/III/MIN/214796/2021).

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

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 2.68 Ha [Khata no. : 65, 72, 83, 137 & 145, Plot no. : 2642 (P), 2643 (P), 2646 (P), 2647 (P), 2648, 2649, 2650, 2652, 2653, 2654, 2655 (P), 2660 (P), 2661 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Giridih, Jharkhand vide letter no. 86/M dated 12.01.2021. The nearest railway station is Parasnath at a distance of 5.50 km and nearest airport is Ranchi Airport at a distance of 103 km. Total water requirement is 5.37 KLD (Domestic : 0.9 KLD, Drilling & Dust Suppression : 3.51 KLD, Piantation : 0.96 KLD).

The allocated project cost is Rs 79 Lakhs and a provision of capital cost 11.30 Lakh, recurring cost Rs 3.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°00'53.20"N to 24°00'01.60"N	85°59'27.52"E to 85°59'34.54"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 8,04,441.913 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	77,778
2 <sup>nd</sup>	77,778
3 <sup>rd</sup>	77,778



4 <sup>th</sup>	77,778
5 <sup>th</sup>	77,778

The proposed production capacity is 77,778 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribag vide letter no. 164 dated 27.01.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Giridih East Division vide letter no. 2412, dated 12.12.2020 certified that the distance of Reserved / Protected forest is 250 m from proposed project site.

The CO. Dumri (Giridih) vide letter no. 493, dated 23.09.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani.

DMO, Giridih vide memo no. 178, dated 11.02.2021 certified that no other lease exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Giridih district.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. Maintenance work such as h/w, mortar, replacement, protection and watering shall be

undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Stone Mine of M/s Shubham Engineering Stone Company, Mouza : Kulgo, Block : Dumri, Dist. : Giridih, Jharkhand (2.68 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - 1 besides specific condition.

12. Rambani Stone Mine of Shri Ravi Shankar Kumar, Mouza :Rambani, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.43 Ha).

(Proposal No. : SIA/JH/MIN/209990 /2021).

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

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 2.43 Ha (Khata no. : 10, 20 & 26, Plot no. 36, 38, 39 & 59 (P)). The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 1271/M dated 30.07.2020. The nearest railway station is Dumka at a distance of 32.70-km and nearest airport is Malda Airport at a distance of 86.50 km. Total water requirement is 6.13 KLD (Domestic : 2.16 KLD, Drilling & Dust Suppression : 0.59 KLD, Plantation : 3.38 KLD).

The allocated project cost is Rs 93.54 Lakhs and a provision of capital cost 11.79 Lakh, recurring cost Rs 3.40 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°26'49.609"N to 24°26'56.165"N	87°31'39.418"E to 87°31'46.673"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,21,087.50 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	61,560
2 <sup>nd</sup>	1,01,964
3 <sup>rd</sup>	89,281
4 <sup>th</sup>	56,020
5 <sup>th</sup>	46,783

The proposed production capacity is 1,01,964 cum per annum. Life of Mine is 5.92 years.

DFO, Wildlife Hazaribag vide letter no. 1607, dated 07.09.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 1310, dated 01.07.2020 certified that the distance of Reserved / Protected forest is 250 m from proposed project site.

The CO, Gopikandar vide letter no. 251, dated 10.07.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Dumka vide memo no. 1275, dated 31.07.2020 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

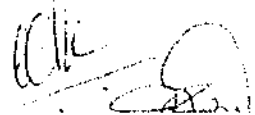
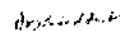
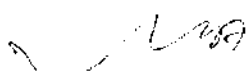
The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
  - j. Traffic density study to be conducted at the individual mine head and common meeting point for the traffic originating from different mines located in the area. The study report will be submitted with EC compliance.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :



Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Rambani Stone Mine of Shri Ravi Shankar Kumar, Mouza :Rambani, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.43 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific condition.

13. Chatania Stone Mine of M/s APN Developers & Stone Pvt. Ltd., Mouza :Chatania, P.S. : Chatra, Dist. : Chatra, Jharkhand (0.70 Ha).

(Proposal No. : SIA/JH/MIN/213503 /2021).

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

This is a new project which has been taken for appraisal on 25.05.2021.

This is a Stone Mining Project with an area of 0.70 Ha [khata no. 11, Plot no. 39]. The Letter of Intent (LoI) has been issued by District Mining Office, Chatra, Jharkhand vide letter no. 347/M dated 07.04.2021. The nearest railway station is Tori at a distance of 61.80 km and nearest airport is Birsa Munda Airport, Ranchi at a distance of 107 km. Total water requirement is 4.5 KLD (Domestic : 0.9 KLD, Drilling & Dust Suppression : 0.28 KLD, Plantation : 3.32 KLD).

The allocated project cost is Rs 57.80 Lakhs and a provision of capital cost 7.56 Lakh, recurring cost Rs 2.70 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°12'35.694"N to 24°12'39.758"N	87°56'2.380"E to 87°56'6.128"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,15,905.70 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	9302
2 <sup>nd</sup>	8362
3 <sup>rd</sup>	8276
4 <sup>th</sup>	7649
5 <sup>th</sup>	7097

The proposed production capacity is 9302 cum per annum. Life of Mine is 14 years.

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DFO, Wildlife Hazaribag vide letter no. 1044, dated 06.05.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Chatra South Division vide letter no. 1310, dated 16.06.2020 certified that the distance of Reserved / Protected forest is 250 m from proposed project site.

The CO, Chatra vide letter no. 651, dated 16.07.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Chatra vide memo no. 350, dated 09.04.2021 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

This project site has mentioned in District Survey Report (DSR) of Chatra district.

Specific observations of the committee from the appraisal are as under :

i. Undertaking to be submitted affirming :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. 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 PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Chatania Stone Mine of M/s APN Developers & Stone Pvt. Ltd., Mouza :Chatania, P.S. : Chatra, Dist. : Chatra, Jharkhand (0.70 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

14. Rampur Stone Mine of Shri Pankaj Kumr Mandal, Mouza : Rampur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (0.99 Ha).

(Proposal No. : SIA/JH/MIN/213097 /2021)

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

This is a new project which has been taken for appraisal on 25.06.2021.

This is a Stone Mining Project with an area of 0.99 Ha [Khata no. : 05 & 13, Plot no. 436 (P), 437, 438 & 439]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 1249/M dated 28.07.2020. The nearest railway station is Ambajora Shikaripara at a distance of 25.60 km and nearest airport is Kazi Nazrul Islam Airport at a distance of 97.20 km. Total water requirement is 5.76 KLD (Domestic : 0.86 KLD, Drilling & Dust Suppression : 0.33 KLD, Plantation : 4.58 KLD).

The allocated project cost is Rs 61.50 Lakhs and a provision of capital cost 8.76 Lakh, recurring cost Rs 3.00 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°27'17.834"N to 24°27'21.907"N	87°31'27.901"E to 87°31'33.888"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 82,579.60 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	19,628
2 <sup>nd</sup>	16,748
3 <sup>rd</sup>	23,546
4 <sup>th</sup>	15,029
5 <sup>th</sup>	4014

The proposed production capacity is 23,646 cum per annum. Life of Mine is 5 years.

DFO, Wildlife Hazaribag vide letter no. 1476, dated 29.07.2019 certified that the Udhwa Lake Bird Sanctuary is 63,500 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 2523, dated 26.08.2016 certified that the distance of Reserved forest is 2046 m from proposed project site.

The CO, Gopikandar vide letter no. 204, dated 31.07.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Dumka vide memo no. 1125, dated 13.07.2020 certified that no other lease exists within 500 m radius from proposed project site.

The DC –cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
  - j. Traffic density study to be conducted at the individual mine head and common meeting point for the traffic originating from different mines located in the area. The study report will be submitted with EC compliance.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Rampur Stone Mine of Shri Pankaj Kumr Mandal, Mouza : Rampur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (0.99 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific condition.

15. Taratand Stone Quarry of Sri Devendra Pd. Mehta at Vill. – Taratand, Domchanch, Koderma (0.761).

The Project Authorities vide letter dated 25.06.2021 requested to defer appraisal to the next SEAC meeting. The Committee considered the request and accepted.

Day 4 : June 26, 2021 [Saturday]

Consideration of Proposals

1. Amarpur Stone Mine of Shri Baidhanath Roy, Mouza : Amarpur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.27 Ha).

(Proposal No. : SIA/JH/MIN/210354 /2021).

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.27 Ha [Khata no. 13, 16, Plot no. 637, 638, 639, 641, 642, 643, 644]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 1250/M dated 28.07.2020. The nearest railway station is Pinargaria at a distance of 28.17 km SE and nearest airport is Kazi Nazrul Islam, at a distance of 98 km SW. Total water requirement is 6.54 KLD (Domestic Consumption : 1.04 KLD, Dust Suppression & Green Belt : 5.50 KLD).

The allocated project cost is Rs. 67.85 Lakhs and a provision of capital cost 14.34 Lakh, recurring cost Rs 3.90 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°27'16.699"N To 24°27'23.535"N	87°33'43.068"E To 87°33'48.156"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,58,067.50 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	21657
2 <sup>nd</sup>	22144

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3 <sup>rd</sup>	21945
4 <sup>th</sup>	21259
5 <sup>th</sup>	21888

The proposed production capacity is 22144 cum per annum. Life of Mine is 11.85 years.

DFO, Wildlife Hazaribagh vide letter no. 489, dated 19.02.2020 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 1047, dated 27.05.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Gopikandar, Dumka vide letter no. 35, dated 03.02.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.

DMO, Dumka vide memo no. 1174, dated 15.07.2020 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

i. Undertaking to be submitted affirming :

- a. Ground water will not be used in mining process.
- b. Ground water to be used only for domestic purpose.
- c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
- d. 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 PA's.
- e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
- h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
- i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

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Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Amarpur Stone Mine of Shri Baidhanath Roy, Mouza : Amarpur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.27 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

2. Chhota Bathan Pahari Stone Mine of Shri Rajesh Kumar, Mouza : Chhota Bathan Pahari, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.80 Ha).

(Proposal No. : SIA/JH/MIN/210232/2021)

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.80 Ha [Khata no. 05, 06, 09, Plot no. 141(P), 142(P), 143, 148(P), 149(P), 150(P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 1247/M dated 16.10.2019. The nearest railway station is Dumka at a distance of 33 km SW and nearest airport is Kazi Nazrul Islam, at a distance of 93.72 km SW. Total water requirement is 6.62 KLD.

The allocated project cost is Rs. 72.07 Lakhs and a provision of capital cost 16.17 Lakh, recurring cost Rs 3.20 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°24'57.93"N To 24°24'51.09"N	87°33'9.55"E To 87°33'00.15"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 5,66,194 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	55485
2 <sup>nd</sup>	55149
3 <sup>rd</sup>	55584
4 <sup>th</sup>	55476
5 <sup>th</sup>	35046

The proposed production capacity is 55584 cum per annum. Life of Mine is 11.3 years.

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DFO, Wildlife Hazaribagh vide letter no. 2226, dated 21.10.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 2590, dated 24.07.2018 certified that the distance of reserved / protected forest is 1400 m from proposed project site.

The CO, Gopikandar, Dumka vide letter no. 368, dated 26.11.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Dumka vide memo no. 1849, dated 18.09.2018 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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,

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

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 Chhota Bathan Pahari Stone Mine of Shri Rajesh Kumar, Mouza : Chhota Bathan Pahari, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.80 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

3. Rambani Stone Mine of M/s Baba Stone, Mouza : Rambani, P.O. : Dharampur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.97 Ha).

(Proposal No. : SIA/JH/MIN/215448/2021)

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.97 Ha [Khata no. 03, Plot no. 194(P), 195, 196(P), 197(P), 198(P), 285, 286]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 573/M dated 03.04.2021. The nearest railway station is Dumka at a distance of 34.05 km SW and nearest airport is Kazi Nazrul Islam, at a distance of 95.81 km SW. Total water requirement is 6.45 KLD (Domestic Consumption : 0.95 KLD, Dust Suppression & Green Belt : 5.50 KLD).

The allocated project cost is Rs. 67.91 Lakhs and a provision of capital cost 11.89 Lakh, recurring cost Rs 3.90 lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°26'30.19"N To 24°26'36.31"N	87°31'30.75"E To 87°31'39.79"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 6,20,207.5 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	52582.50
2 <sup>nd</sup>	39611.20
3 <sup>rd</sup>	54243.10
4 <sup>th</sup>	54803.60
5 <sup>th</sup>	55075.30

The proposed production capacity is 55075.30 cum per annum. Life of Mine is 11.26 years.

DFO, Wildlife Hazaribagh vide letter no. 859, dated 15.05.2021 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

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DFO, Dumka Division vide letter no. 2659, dated 28.12.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Gopikandar, Dumka vide letter no. 73, dated 12.02.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Dumka vide memo no. 124, dated 27.01.2021 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
  - j. Traffic density study to be conducted at the individual mine head and common meeting point for the traffic originating from different mines located in the area. The study report will be submitted with EC compliance

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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.

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

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 Rambani Stone Mine of M/s Baba Stone, Mouza : Rambani, P.O. : Dharampur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.97 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

4. Rameshwar Mahto Stone Mines of Shri Rameshwar Mahto, Mouza : Dudhiya, Thana : Baliapur, Dist. : Dhanbad, Jharkhand (2.83 Ha).

(Proposal No. : SIA/JH/MIN/214982/2021)

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.83 Ha [Khata no. 432, Plot no. 5042(P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dhanbad, Jharkhand vide letter no. 166/M dated 30.01.2021. The nearest railway station is Chhota Ambona at a distance of 7.55 km N and nearest airport is Ranchi, at a distance of 133 km SW. Total water requirement is 6.50 KLD (Domestic Consumption : 0.70 KLD, Dust Suppression & Green Belt : 5.80 KLD ).

The allocated project cost is Rs. 69.20 Lakhs and a provision of capital cost 13.40 Lakh, recurring cost Rs 3.20 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
23°41'37.25"N To 23°41'45.58"N	86°33'35.89"E To 86°33'43.38"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 6,12,864 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	55,560
2 <sup>nd</sup>	55,560
3 <sup>rd</sup>	55,560
4 <sup>th</sup>	55,560
5 <sup>th</sup>	55,560

The proposed production capacity is 55,560 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribagh vide letter no. 276, dated 12.02.2021 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dhanbad Division vide letter no. 1461, dated 09.07.2019 certified that the distance of reserved / protected forest is 850 m from proposed project site.

The CO, Baliapur, Dhanbad vide letter no. 945, dated 20.11.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Dhanbad vide memo no. 270, dated 12.02.2021 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

This project site has mentioned in District Survey Report (DSR) of Dhanbad district.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Rameshwar Mahto Stone Mines of Shri Rameshwar Mahto, Mouza : Dudhiya, Thana : Baliapur, Dist. : Dhanbad, Jharkhand (2.83 Ha) is

recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

5. Labapara Stone Mines of Shri Madhurendra Jha, Mouza : Labapara, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (1.62 Ha).

(Proposal No. : STA/JH/MIN/208446/2021)

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 1.62 Ha [Khata no. 17, Plot no. 80(P), 81(P), 82(P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 409/M dated 09.03.2021. The nearest railway station is Pinargaria at a distance of 8.83 km NE and nearest airport is Kazi Nazrul Islam, at a distance of 71.91 km SW. Total water requirement is 6.17 KLD (Domestic Consumption : 1.17 KLD. Dust Suppression & Green Belt : 5.00 KLD ).

The allocated project cost is Rs. 66.60 Lakhs and a provision of capital cost 11.00 Lakh, recurring cost Rs 2.80 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°12'01.30"N To 24°11'53.86"N	87°33'25.47"E To 87°33'21.77"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,51,762.8 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	30,972
2 <sup>nd</sup>	26,832
3 <sup>rd</sup>	22,908
4 <sup>th</sup>	29,400
5 <sup>th</sup>	27,312

The proposed production capacity is 30,972 cum per annum. Life of Mine is 5.5 years.

DFO, Wildlife Hazaribagh vide letter no. 493, dated 19.02.2020 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 880, dated 17.03.2017 certified that the distance of reserved / protected forest is 1162 m from proposed project site.

The CO, Shikaripara, Dumka vide letter no. 82, dated 24.01.2020 has mentioned the plot no. of the project is not recorded as "Janglo Jhari" in R.S Khatiyani & Register II.



DMO, Dumka vide memo no. 1302, dated 25.10.2019 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC –cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority PA's to abide by directives issued by any court of law in future
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly;
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
  - j. Traffic density study to be conducted at the individual mine head and common meeting point for the traffic originating from different mines located in the area. The study report will be submitted with EC compliance.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Lalapara Stone Mines of Shri Madhurendra Jha,

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Mouza :Labapara, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (1.62 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific condition.

6. Salbona Pahar Stone Mine of Shri Sujeet Kumar Singh, Mouza : Salbona Pahar, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.834 Ha).

(Proposal No. : SIA/JH/MIN/212308 /2021).

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.834 Ha [Khata no. 10, Plot no. 273 (P) & 274]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 1308/M dated 30.10.2019. The nearest railway station is Pinargaria at a distance of 8.10 km and nearest airport is Malda Airport at a distance of 107.25 km. Total water requirement is 6.25 KLD (Domestic Consumption : 1.26 KLD, Dust Suppression & Green Belt : 5.00 KLD ).

The allocated project cost is Rs 69.60 Lakhs and a provision of capital cost 14.32 Lakh, recurring cost Rs 3.70 Lakh per year has been allocated/appORTioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°11'08.93"N to 24°11'01.10"N	87°34'06.22"E to 87°33'57.24"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,70,485 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	30,640
2 <sup>nd</sup>	30,630
3 <sup>rd</sup>	30,690
4 <sup>th</sup>	30,690
5 <sup>th</sup>	30,700

The proposed production capacity is 30,700 cum per annum. Life of Mine is 5.56 years.

DFO, Wildlife Hazaribag vide letter no. 100, dated 10.01.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 3121, dated 14.09.2019 certified that the distance of Protected / Reserved forest is 250 m from proposed project site.

The CO, Shikaripara vide letter no. 758, dated 07.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Dumka vide memo no. 90, dated 29.01.2020 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Saibona Pahar Stone Mine of Shri Sujeet Kumar Singh, Mouza : Saibona Pahar, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.834 Ha) is

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recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

7. Salbona Pahar Stone Mine of M/s Shri Parasnath Industries, Mouza : Salbona Pahar, Panchayat : Saharpur, P.O. : Benagaria, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.34 Ha). (Proposal No. : SIA/JH/MIN/208097 /2021).

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.34 Ha [Khata no. 24, 36 & 37, Plot no. 243 (P), 244 (P), 251 (P) & 253 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 67/M dated 20.01.2020. The nearest railway station is Pinargaria at a distance of 8.34 km and nearest airport is Kazi Nazrul Islam Airport at a distance of 70.41 km. Total water requirement is 6.53 KLD (Domestic Consumption : 1.53 KLD, Dust Suppression & Green Belt : 5.00 KLD)

The allocated project cost is Rs 76.69 Lakhs and a provision of capital cost 14.42 Lakh, recurring cost Rs 3.50 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°10'50.42"N to 24°10'44.48"N	87°34'01.93"E to 87°33'51.72"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,52,782 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	48,977
2 <sup>nd</sup>	51,763
3 <sup>rd</sup>	52,660
4 <sup>th</sup>	52,659
5 <sup>th</sup>	46,885

The proposed production capacity is 52,660 cum per annum. Life of Mine is 5.79 years.

DFO, Wildlife Hazaribag vide letter no. 2785, dated 20.12.2019 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 3955, dated 10.12.2019 certified that the distance of Protected / Reserved forest is 250 m from proposed project site.

The CO, Shikaripara vide letter no. 1200, dated 22.12.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhar" in R.S Khatiyan & Register II.

DMO, Dumka vide memo no. 1296, dated 24.10.2019 certified that no other lease exists within 500 m radius from proposed project site.

The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Salbona Pahar Stone Mine of M/s Shri Parasnath Industries, Mouza : Salbona Pahar, Panchayat : Saharpur, P.O. : Benagaria, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.34 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure besides specific condition.

8. Musna Stone Mine of M/s Adity Stone (Prop. : Shri Amuly Kumar Paul), Mouza : Musna, P.O. : Dharampur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.60 Ha).

(Proposal No. : SIA/JH/MIN/209893 /2021).

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.60 Ha [Plot no. 113, 116 (P), 117 (P), 118 (P) & 119 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 238/M dated 12.02 2020. The nearest railway station is Dumka at a distance of 33.40 km and nearest airport is Malda Airport at a distance of 85.70 km. Total water requirement is 6.71 KLD (Domestic Consumption : 1.71 KLD, Dust Suppression & Green Belt : 5.00 KLD).

The allocated project cost is Rs 80.80 Lakhs and a provision of capital cost 12.35 Lakh, recurring cost Rs 3.50 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°27'23.06"N to 24°27'14.93"N	87°31'55.88"E to 87°31'48.51"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,02,192 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows.

Year	Production of stone (cum)
1 <sup>st</sup>	55,602
2 <sup>nd</sup>	55,525.5
3 <sup>rd</sup>	55,503
4 <sup>th</sup>	55,525.5
5 <sup>th</sup>	55,534.5

The proposed production capacity is 55,602 cum per annum. Life of Mine is 7.2 years.

DFO, Wildlife Hazaribag vide letter no. 99, dated 10.01.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 13, dated 02.01.2020 certified that the distance of Protected / Reserved forest is 250 m from proposed project site.

The CO, Gopikandar vide letter no. 375, dated 03.12.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khaliyan & Register !!

DMO, Dumka vide memo no. 50, dated 17.01.2020 certified that no other lease exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Dumka district.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
  - j. Traffic density study to be conducted at the individual mine head and common meeting point for the traffic originating from different mines located in the area. The study report will be submitted with EC compliance.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Musna Stone Mine of M/s Adity Stone (Prop. : Shri Amuly Kumar Paul), Mouza : Musna, P.O. : Dharampur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.60 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

9. Daldali Stone Mine of Shri Parasnath Heights Pvt. Ltd. (Prop.: Siiri Nirmal Jain), Mouza : Daldali, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.11 Ha).

(Proposal No. : SIA/JH/MIN/208361 /2021).

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.11 Ha [Khata no. : 04, 54, 56, 60, Plot no. 2130, 2131(P), 2132(P), 2133, 2134, 2135, 2136, 2137, 2138, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149.]. The Letter of Intent (Loi) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 176/M dated 04.02.2021. The nearest railway station is Pinargaria at a distance of 14 km and nearest airport is Kazi Nazrual Islam Airport at a distance of 63.26 km. Total water requirement is 6.44 KLD (Domestic Consumption : 1.44 KLD, Dust Suppression & Green Belt : 5.00 KLD).

The allocated project cost is Rs 66.07 Lakhs and a provision of capital cost 12.42 Lakh, recurring cost Rs 2.80 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°6'1.258"N to 24°6'8.259"N	87°34'19.132"E to 87°34'28.460"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,87,903.20 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	34,484
2 <sup>nd</sup>	46,804
3 <sup>rd</sup>	38,103
4 <sup>th</sup>	39,504
5 <sup>th</sup>	37,230

The proposed production capacity is 46,804 cum per annum. Life of Mine is 7.33 years.

DFO, Wildlife Hazaribag vide letter no. 1395, dated 13.08.2020 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

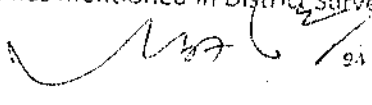
DFO, Dumka Division vide letter no. 1241, dated 24.06.2020 certified that the distance of Protected / Reserved forest is 250 m from proposed project site.

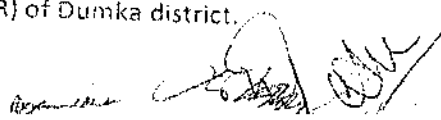
The CO, Shikaripara vide letter no. 595, dated 20.07.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Dumka vide memo no. 827, dated 05.06.2020 certified that no other lease exists within 500 m radius from proposed project site.

This project site has mentioned in District Survey Report (DSR) of Dumka district.









D Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Daldali Stone Mine of Shri Parasnath Heights Pvt. Ltd. (Prop.: Shri Nirmal Jain), Mouza : Daldali, P.S. : Shikaripara, Dist. : Dumka, Jharkhand (2.11 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition .

10. Pokharia Stone Mine of M/s Mewar Enterprises, Mouza : Pokharia, P.O. : Benagaria, P.S. : Shikaripara, Dist.- Dumka, Jharkhand (1.26 Ha).

(Proposal No. : SIA/JH/MIN/ 209763/2021)

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

This is a new project which has been taken for appraisal on 26.06.2021.

A complaint has been received from Mrs Chande Handa of village Pokhariya in Dumka district stating that she is one of the owners of Project land of M/s Mewar enterprises. But the PPs have not taken pain to obtain NOC from herself. Further the project also qualifies for cluster area situation as cumulative area of mines located within 500 m is > 25 Ha. In the light of complain made, PP has been directed to obtain a certificate from CO describing Vansawali of the complainant as well as PP by obtaining their consent. Further, DMO to certify whether the project qualify for Cluster area or not. In the light of above, the committee decided that the proposal will be re-appraised after we receive the two certificates.

On submission of the requisite certificate to SEAC, it will be taken up for re-consideration for grant of EC.

11. Golpur Stone Mine of M/s Siddhu Kanhu Stone Works, Mouza : Goipur, P.S. : Pakuria, Dist. : Pakur, Jharkhand (1.90 Ha).

(Proposal No. : SIA/JH/MIN/196101/2021).

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 1.90 Ha [Khata no. : 8, 12, 18, 40 & 46, Plot no. 612, 613, 621 (P), 622, 623 (P), 624, 625 (P) & 626 (P)]. The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, Jharkhand vide letter no. 257/M dated 17.02.2020. The nearest railway station is Pinargaria at a distance of 6.53 km and nearest airport is Malda Airport at a distance of 95 km. Total water requirement is 6.35 KLD (Domestic Consumption : 1.35 KLD, Dust Suppression & Green Belt : 5.00 KLD).

The allocated project cost is Rs 91.25 Lakhs and a provision of capital cost 12.85 Lakh, recurring cost Rs 3.20 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°16'11.910"N to 24°16'19.746"N	87°38'37.939"E to 87°38'45.343"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,47,461.85 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	23,716
2 <sup>nd</sup>	27,266
3 <sup>rd</sup>	24,525
4 <sup>th</sup>	27,519
5 <sup>th</sup>	24,902

The proposed production capacity is 27,519 cum per annum. Life of Mine is 5.76 years.

DFO, Wildlife Hazaribag vide letter no. 1925, dated 14.09.2019 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 1170, dated 28.09.2019 certified that the distance of Reserved / Protected forest is 250 m from proposed project site.

The CO, Pakuria (Pakur) vide letter no. 602, dated 07.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Pakur vide memo no. 1175, dated 25.07.2020 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

This project site has mentioned in District Survey Report (DSR) of Pakur district.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.



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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 Golpur Stone Mine of M/s Siddhu Kanhu Stone Works, Mouza : Golpur, P.S. : Pakuria, Dist. : Pakur, Jharkhand (1.90 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

12. Stone Mine of M/s Man Mohan Grover, Mouza : Salpatra, Thana : Ballapur, Dist. : Dhanbad, Jharkhand (2.96 Ha):

(Proposal No. : SIA/JH/MIN/213744 /2021).

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.96 Ha [Khata no. : 194 & 94, Plot no. 3245, 3246, 3317 (P), 3318 (P), 3247 (P), 3243 (P) & 3244]. The Letter of Intent (LoI) has been issued by District Mining Office, Dhanbad, Jharkhand vide letter no. 979/M dated 17.04.2021. The nearest railway station is Chhota Amba at a distance of 7.83 km and nearest airport is Ranchi Airport at a distance of 135 km. Total water requirement is 6.40 KLD (Domestic Consumption : 0.70 KLD, Dust Suppression & Green Belt : 5.70 KLD).

The allocated project cost is Rs 68.97 Lakhs and a provision of capital cost 12.20 Lakh, recurring cost Rs 3.10 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
23°41'26.69"N to 23°41'36.01"N	86°35'06.44"E to 86°35'15.71"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 6.66.738.259 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	66,770
2 <sup>nd</sup>	66,770
3 <sup>rd</sup>	66,770
4 <sup>th</sup>	66,770
5 <sup>th</sup>	66,770

The proposed production capacity is 66,770 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribag vide letter no. 923, dated 05.06.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dhanbad Division vide letter no. 1066, dated 16.06.2021 certified that the distance of Reserved / Protected forest is 350 m from proposed project site.

The CO, Baliapur (Dhanbad) vide letter no. 219, dated 26.03.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

DMO, Dhanbad vide memo no. 1255, dated 02.06.2021 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

This project site has mentioned in District Survey Report (DSR) of Dhanbad district.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Stone Mine of M/s Man Mohan Grover, Mouza : Salpatra, Thana : Baliapur, Dist. : Dhanbad, Jharkhand (2.96 Ha) is recommended for grant of



EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

13. Rambani Stone Mine of Shri Deepak Raj, Mouza : Rambani, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.83 Ha).

{Proposal No. : SIA/JH/MIN/215501/2021}

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.83 Ha [Khata no. 06, 10, Plot no. 130, 228(P), 237]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 572/M dated 17.06.2021. The nearest railway station is Pinargaria at a distance of 28.20 km SE and nearest airport is Kazi Nazrul Islam at a distance of 96.30 km SW. Total water requirement is 6.31 KLD (Domestic Consumption : 0.81 KLD, Dust Suppression & Green Belt : 5.50 KLD)

The allocated project cost is Rs. 48.50 Lakhs and a provision of capital cost 12.42 Lakh, recurring cost Rs. 3.30 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°26'40.38"N To 24°26'50.84"N	87°31'52.69"E To 87°31'58.24"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,16,100 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	38532.00
2 <sup>nd</sup>	33573.00
3 <sup>rd</sup>	38988.00
4 <sup>th</sup>	39774.50
5 <sup>th</sup>	41581.50

The proposed production capacity is 41,581.50 cum per annum. Life of Mine is 10 years.

DFO, Wildlife Hazaribagh vide letter no. 855, dated 15.05.2021 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 780, dated 17.03.2021 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO Gopikandar, Dumka vide letter no. 148, dated 17.03.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

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DMO, Dumka vide memo no. 539, dated 26.03.2021 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.
  - j. Traffic density study to be conducted at the individual mine head and common meeting point for the traffic originating from different mines located in the area. The study report will be submitted with EC compliance.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Rambari Stone Mine of Shri Deepak Raj, Mouza :



Rambani, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.83 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I besides specific condition.

14. Kendpahari Stone Mine of Shri Mainul Islam, Mouza : Kendpahari, P.S. : Shikaripara, Dist.- Dumka, Jharkhand (2.17 Ha).

(Proposal No. : SIA/JH/MIN/215378/2021)

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 2.17 Ha [Khata no. 02, 03, 25, 35, 43, Plot no. 723, 724, 940, 941, 945, 946, 947, 948]. The Letter of Intent (Loi) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 174/M dated 04.02.2021. The nearest railway station is Pinargaria at a distance of 2.80 km SE and nearest airport is Kazi Nazrul Islam at a distance of 76.90 km SW. Total water requirement is 6.45 KLD (Domestic Consumption : 0.95 KLD, Dust Suppression & Green Belt : 5.50 KLD).

The allocated project cost is Rs. 63.50 Lakhs and a provision of capital cost 10.56 Lakh, recurring cost Rs 3.20 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°13'12.645"N To 24°13'22.398"N	87°36'53.350"E To 87°36'59.767"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 1,27,512.49 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	27770
2 <sup>nd</sup>	33238
3 <sup>rd</sup>	24974
4 <sup>th</sup>	27881
5 <sup>th</sup>	13646

The proposed production capacity is 33,238 cum per annum. Life of Mine is 5 years.

DFO, Wildlife Hazaribagh vide letter no. 1831, dated 27.10.2020 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 1700, dated 24.08.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Shikaripara, Dumka vide letter no. 594, dated 20.07.2020 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S Khatiyani & Register II.



DMO, Dumka vide memo no. 1440, dated 27.08.2020 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

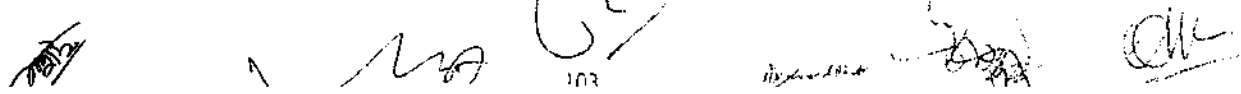
- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority. PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Kendpahari Stone Mine of Shri Mainul Islam, Mouza : Kendpahari, P.S. : Shikaripara, Dist.- Dumka, Jharkhand (2.17 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.



15. Ahrichuwan Stone Mine of M/s Raksha Kali Stone Works, Mouza : Ahrichuwan, P.O. : Karudih, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (1.66 Ha).

(Proposal No. : SIA/JH/MIN/215516/2021)

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

This is a new project which has been taken for appraisal on 26.06.2021.

This is a Stone Mining Project with an area of 1.66 Ha [Khata no. 35, 16, Plot no. 395, 396]. The Letter of Intent (LoI) has been issued by District Mining Office, Dumka, Jharkhand vide letter no. 671/M dated 17.04.2021. The nearest railway station is Pinargaria at a distance of 17.70 km SE and nearest airport is Kazi-Nazrul Islam at a distance of 87.47 km SW. Total water requirement is 6.45 KLD (Domestic Consumption : 0.95 KLD, Dust Suppression & Green Belt : 5.50 KLD).

The allocated project cost is Rs. 66.55 Lakhs and a provision of capital cost 10.65 Lakh, recurring cost Rs 3.20 Lakh per year has been allocated/apportioned for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
24°20'39.75"N To 24°20'44.91" N	87°32'57.88" E To 87°33'03.40" E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 2,17,113 cum

Year-wise Production as per Approved Mining Plan Report for five years is as follows

Year	Production of stone (cum)
1 <sup>st</sup>	32110.00
2 <sup>nd</sup>	30628.00
3 <sup>rd</sup>	31243.60
4	34447.00
5 <sup>th</sup>	35666.80

The proposed production capacity is 35,666.80 cum per annum. Life of Mine is 6.09 years.

DFO, Wildlife Hazaribagh vide letter no 2058, dated 07.12.2020 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Dumka Division vide letter no. 1931, dated 12.09.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Gopikandar, Dumka vide letter no. 353, dated 06.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.

DMO, Dumka vide memo no. 1809, dated 05.11.2020 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The DC -cum-District Magistrate, Dumka vide letter no. 683, dated 19.04.2021 has informed that this project is part of District Survey Report (DSR) at Dumka district and accordingly necessary action with regard to Environmental Clearance can be taken.

Specific observations of the committee from the appraisal are as under :

- i. Undertaking to be submitted affirming :
  - a. Ground water will not be used in mining process.
  - b. Ground water to be used only for domestic purpose.
  - c. The District survey Report has been prepared from the competent authority PA's to abide by directives issued by any court of law in future.
  - d. 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 PA's.
  - e. The Boundary Pillars of the proposed mine lease area will be maintained properly.
  - f. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
  - g. The plantation work will be completed in the first year only. Same will be maintained during the life of mine.
  - h. Sufficient water spray using water tankers will be done for effective dust suppression on haul roads and the mine lease area.
  - i. All the mining machineries / equipment and transport vehicles should be annually tested for fitness and PUC and records to be maintained.

The Project Authorities have submitted above required undertaking.

The committee also recommends the following project specific conditions :

Gabion Plantation work in the safety zone and on either side of haul 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. 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, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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 Ahrichuwan Stone Mine of M/s Raksha Kali Stone Works, Mouza : Ahrichuwan, P.S. : Gopikandar, Dist.: Dumka, Jharkhand (1.66 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I besides specific condition.

Day 5 : June 28, 2021 [Monday]

Consideration of Proposal

A. Corrigendum EC letter for Jitpur Stone Mine of M/s RAN Enterprises, Mouza :Jitpur, P.S. : Gopikandar, Dist. : Dumka, Jharkhand (2.65 Ha).

This project is taken up for corrigendum in previous recommendation which was recommended by erstwhile SEAC vide its 78<sup>th</sup> meeting held on 18<sup>th</sup> to 20<sup>th</sup> September, 2019. Due to typographical error following information was mentioned in the part of recommendation


Latitude	24°65'57.40"N to 24°65'50.01"N
Daily production of Mine	218.24 TPD

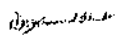
After going through the records available in file it was found that the following figure needs to be mentioned in the corrigendum in EC:-

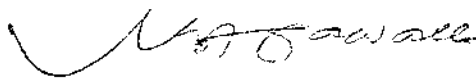
Latitude	24°26'57.04"N to 24°26'55.01"N
Daily production of Mine	589.248 TPD

Hence, Committee after deliberations it was unanimously decided to recommend that corrigendum of EC may be issued mentioning the correct latitude and daily production. Rest of the terms and conditions mentioned in EC letter no. EC/SEIAA/2018-19/2154/547, Ranchi dated - 09.10.2019 remains the same.


The meeting concluded with thanks to all present.


  
(Dr. Raju Kumar)  
Member

  
(Dr. Ajay Govind Bhatt)  
Member

  
(Niranjan Lal Agarwalla)  
Member

  
(Dr. Kirti Avishek)  
Member

  
(Ashok Kumar Dubey)  
Secretary

  
(Ashok Kumar Singh)  
Chairman

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. The Project proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2<sup>nd</sup> 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.
- iii. 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.*

- iv. 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.
- v. 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.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. 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.
- x. The Project Proponent shall follow the mitigation measures provided in MoEF&CC's Office Memorandum No. Z-11013/57/2014-I/II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects

wherein, operation and all rights are the part of mine lease areas or habitations and  
grants and controlled by the mine lease area.

The Project Proponent shall obtain necessary prior permission of the competent  
authority in the form of approval/consent of State Water and Power Deptt. for  
withdrawing ground water for the project.

vi. A copy of EC letter and its annex concerned Purchase Order/Invoice if any from  
the concerned authority shall be submitted with the proposal.

vii. The Project Proponent/Collector shall be responsible for display of this EC  
letter in the Registry office, District Industries Centre and Collector's office/ Tehsildar's  
office.

viii. The Project Proponent shall 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, at least once a week. The advertisement shall be done within 7 days of the  
grant of this EC letter. Advertisement that the consent project has been accorded if  
any, shall be printed in the newspapers of the State Pollution Control Board/Committee  
concerned. The advertisement shall be sent to Forest and Climate Change and  
Environment Clearance (M). A copy of the advertisement may be forwarded to the  
concerned MoEF & CC Regional Office for compliance and record.

ix. The Project Proponent shall inform the MoEF&CC for any change in ownership of the  
mine lease in case there is any change in ownership or mine lease is transferred  
to any other person. It shall be carried out after transfer of EC as per provisions of  
the MoEF&CC Order/Regime 2016 as amended from time to time.

ii. Air quality monitoring and mitigation

The project proponent shall install air quality monitoring stations at strategic locations  
to monitor the air quality during the construction and operation of the project. The  
monitoring stations shall be installed at an angle of 120° or  
more between the monitoring locations to monitor critical parameters, relevant for  
air quality such as particulate matter (PM10, PM2.5, NO2), CO and SO2 etc. as per the  
methodology mentioned in MAQS Notification No. P/29016/20/90/PCU dated  
17.11.2020 covering the aspects of transportation and use of heavy machinery in the  
project zone. The ambient air quality shall also be monitored at prominent places like  
near the mining operations etc. for the air quality to ascertain the exposure  
of the population living in the vicinity. The data shall be digitally displayed within 03  
minutes of the monitoring stations.

The project proponent shall ensure the use of dust suppression and subsequent  
cleaning of the road (water spraying, installed road construction etc.) shall be  
ensured. The water spraying shall be done at an interval of 15-20 minutes. PM10 and PM2.5 are  
to be monitored at the mining site and also at the point of transfer point. The fugitive  
dust emissions from all activities shall be regularly controlled by installation of required  
equipment, machinery 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 well 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 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, 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,

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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 of 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 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.

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- 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 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

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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 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 and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).
- iv. The Proponent shall maintain 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 01.05.2013 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.

#### 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 does not increase production rate and alter lease area during the validity of Environmental Clearance.

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I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)
- iv. 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.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31<sup>st</sup> March 2012 (applicable to IF/FAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act. 1986 or NABL accredited laboratories.
- iii. The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)

- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after *briquetting*/ agglomeration.
- ix. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- xii. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.

### III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF / EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Adhere to 'Zero Liquid Discharge'



- v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- vi. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31<sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time.
- vii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off
- viii. The project proponent shall practice rainwater harvesting to maximum possible extent.
- ix. The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

#### IV. Noise monitoring and prevention

- i. 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.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB (A) during day time and 70 dB(A) during night time.

#### V. Energy Conservation measures

- i. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- ii. Practice hot charging of slabs and billets/blooms as far as possible.
- iii. Ensure installation of regenerative type burners on all reheating furnaces.
- iv. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- v. Provide the project proponent for LED lights in their offices and residential areas.

#### VI. Waste management

- i. Used refractories shall be recycled as far as possible.
- ii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.

- iv. The waste oil, grease and other hazardous waste shall be disposed of as per the
- v. Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- vi. Kitchen waste shall be composted or converted to biogas for further use. (to be decided on case to case basis depending on type and size of plant)

#### VII. Green Belt

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

#### VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

#### IX. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide E.O. 22-65/2017-IA.II dated 1<sup>st</sup> 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.

- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.
- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

#### X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- 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 monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. 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.
- vi. 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.
- vii. 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.

- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. 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.
- x. 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).
- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. 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.
- xvi. 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.

C. Other Conditions:

- i. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- ii. In view of MoEF & CC O.M. No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.
- iii. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.

**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, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v. 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.
- vi. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- vii. 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.
- viii. 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.
- ix. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi. 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.
- xii. 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.
- xiii. 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.

- xiv. 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-peak hours.
- xv. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xvi. Water during construction phase should be preferred from Municipal supply.
- xvii. Unskilled construction labourers shall be recruited from the local areas.
- xviii. 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.
- xix. 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.
- xx. Rest room facilities shall be provided for service population.
- xxi. 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.
- xxii. 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.
- xxiii. Project proponent shall install Wind Augmentation and Air Purifying Unit (4 Units at one location in Ranchi) on Pilot basis to deal with particulate matter pollution.

## 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.

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- 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. 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.

#### 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.

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- 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 25<sup>th</sup> January, 2016. 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.
  - 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 I.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.
- 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.

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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 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 RE / 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 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.
- 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.

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- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PER 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.
- xiv. 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.
- xvi. The prescribed TORs would be valid for a period of three years for submission of the EIA/EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M) , dated 12.01.2017.