

**MINUTES OF THE 84<sup>th</sup> MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC),  
JHARKHAND HELD ON 05<sup>TH</sup>, 06<sup>TH</sup> & 07<sup>TH</sup> JANUARY, 2021**

The 84<sup>th</sup> meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 05<sup>th</sup>, 06<sup>th</sup> & 07<sup>th</sup> January, 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 Niranjana Lal Agarwalla - Member
4. Dr. Raju Kumar - Member
5. Dr. Ajay Govind 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 24<sup>th</sup>, 25<sup>th</sup> & 26<sup>th</sup> November, 2020. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite information / clarifications in the earlier meeting of SEAC, were also considered for appraisal. The Project Proponents have been asked to make technical presentation for the appraisal of their projects before the committee.

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

**Day 1: January 05, 2021 [Tuesday]**

**Consideration of Proposals**

1. Kurkutta Stone Deposit of M/s Bhole Shankar Stone Works, Vill. : Kurkutta, Taluka : Giddi, Dist. : Hazaribagh, Jharkhand (0.49 Ha).

(Proposal No. : SIA/JH/MIN/45227 /2019)

This is a new project which has been taken for appraisal on 05.01.2021.

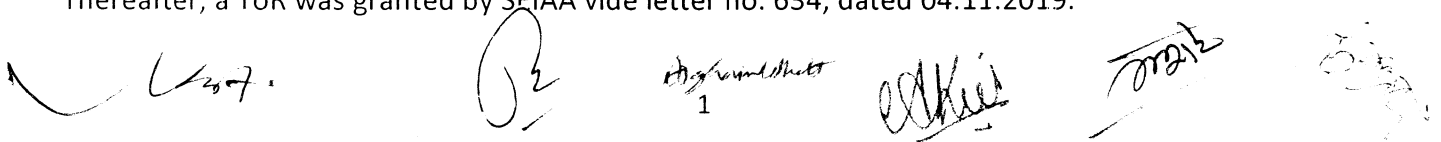
Project Proponent did not attend the meeting without any intimation in two consecutive meetings. Hence, project is being deferred and will be considered after the request of the Project Proponent.

2. Dulmi Stone Mining Project of M/s Elite Power Project and Construction Pvt. Ltd., Village : Siru, Tehsil : Dulmi, District : Ramgarh, Jharkhand. (9.50 Ha)

(Proposal No.: SIA/JH/MiN/40612/2020)

This is a new project which has been taken for appraisal on 05.01.2021.

This project has been appraised by previous SEAC in 81<sup>st</sup> meeting held on 23-25.10.2019. Thereafter, a ToR was granted by SEIAA vide letter no. 634, dated 04.11.2019.



The final EIA / EMP submitted by PP to SEIAA on 23.12.2020 and which was forwarded to SEAC on 24.12.2020.

This is a Stone Mining Project with an area of 9.50 Ha [Plot No- 171 (P) Khata No- 107]. The latitude and longitude of the project site is 23°32'58.81"N to 23°32'57.84"N and 85°38'32.09"E to 85°38'31.60"E. The nearest railway station is Chitarpur at a distance of 2.0 km and nearest airport is Ranchi airport at a distance of 31 km. Total water requirement is 9.1 KLD. Water will be taken from private tanker from nearby villages

The indicated project cost is Rs 45.0 Lakh and a provision of Rs5.0 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	16,96,040.78 tonne
Probable Mineable Reserve	:	17,97,792.82 tonne

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

Year	Production of stone (Tonnes)
1 <sup>st</sup>	349424.16
2 <sup>nd</sup>	349216.29
3 <sup>rd</sup>	349428.04
4 <sup>th</sup>	349404.52
5 <sup>th</sup>	349419.49

The proposed production capacity is 1,25,243.02 cum per annum (3,49,428.04 TPA). Life of Mine is 10 years.

DFO, Wildlife Hazaribagh vide letter no. 1475, dated 29.07.19 certified that the Hazaribagh Wildlife Sanctuary is 62100 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, Ramgarh Division vide letter no. 1448, dated 15.06.19 certified that the distance of notified forest is 300 m from proposed project site.

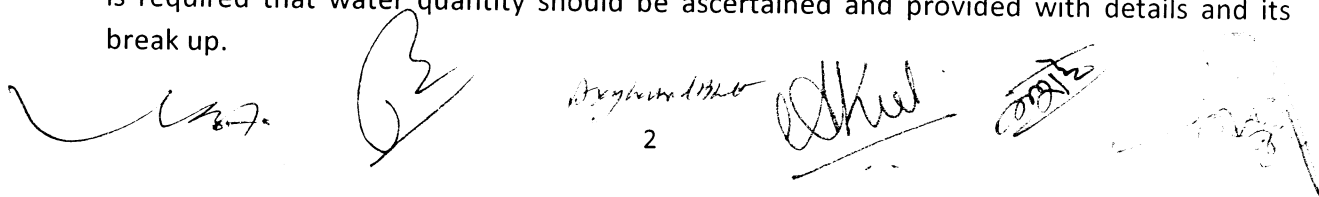
The CO, Dulmi (Ramgarh) vide letter no. 295, dated 26.06.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Ramgarh vide memo no. 963, dated 30.08.2019 certified that no other lease is exists within 500 m radius from proposed project site.

This project site is mentioned in District Survey Report (DSR) of Ramgarh district.

During the appraisal the specific observation of committee are as follows:

- Certified biological study report to be provided as ToR no. 19.
- Distance from Ramgarh severely polluted area along with necessary map to be provided.
- As different figures of water consumption are provided in different places of the report, it is required that water quantity should be ascertained and provided with details and its break up.



- iv. Permission for withdrawal of water is to be obtained.
- v. Rain Water Harvesting to be designed and details to be provided along with contours.
- vi. Ultimate working depth versus ground water table to be provided diagrammatically to ascertain that there is no intersection with the ground water table due to working of mine.
- vii. Conceptual plan to be provided in the EIA report with necessary details.
- viii. EMP to be revised to include all the commitments during the public hearing.
- ix. Questionnaire for mining project to be filled and submitted.
- x. Land use table with all essential details and break-up to be provided.
- xi. There is no name or certificate provided of the Laboratory which generated the base line data. Accordingly, one month data to be generated by a laboratory accredited by NABL or under EP Act, 1986 and signed reports with NABL logo to be provided. Field monitoring photograph along with geo-coordinate over Google map to be provided.
- xii. Wind rose diagram based on primary data has not been provided in EIA report. Hence, data to be generated and wind rose should be prepared based on primary data.
- xiii. Vetting of EIA reports by all experts involved in preparing EIA with original signature is to be incorporated.
- xiv. The point raised regarding women safety and women employment during public hearing is to addressed suitably.

All the above should be included in EIA report and revised EIA to be submitted.

**On submission of the requisite documents and revised EIA to SEAC, it will be taken up for re-consideration for grant of EC.**

**3. Jamua Alias Bishunpur Stone Deposit of Sri Brijesh Singh, Village : Jamua Alias Bishunpur, Thana : Naudiha Bazar, Dist. : Palamau, Jharkhand (2.751 Ha).**

**(Proposal No. : SIA/JH/MIN/188017/2020)**

This is a new project which has been taken for appraisal on 05.01.2021.

This is a Stone Mining Project with an area of 2.751Ha [Plot No- 152, Khata No- 76]. The latitude and longitude of the project site is 24°24'29.56"N to 24°24'25.62"N and 84°19'18.96"E to 84°19'10.39"E. The nearest railway station is Jalpa at a distance of 35.20 km and nearest airport is Chianki airport at a distance of 48.58 km. Total water requirement is 5 KLD. Water will be taken from private tanker.

The indicated project cost is Rs 20.0 Lakh and a provision of Rs 2.50 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 7,26,572.16 tonne  
 Probable Mineable Reserve : 2,28,285 tonne

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

Year	Production of stone (Tonnes)
1 <sup>st</sup>	95,294.88
2 <sup>nd</sup>	95,377.99

*[Handwritten signatures and marks are present below the table, including a large signature on the left and several smaller ones on the right.]*

3 <sup>rd</sup>	95,233.32
4 <sup>th</sup>	95,382.09
5 <sup>th</sup>	95,400.05

The proposed production capacity is 35,333.35 cum per annum (95,400 TPA). Life of Mine is 10 years.

Deputy Director, Palamau Tiger Project, North Division, Medininagar vide letter no. 1209, dated 16.12.2020 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, Medininagar Division vide letter no. 4284, dated 12.09.18 certified that the distance of notified forest is 300 m from proposed project site.

The CO, Naudiha Bazar vide letter no. 227, dated 29.08.18 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II.

DMO, Palamau vide memo no. 1747, dated 16.12.2020 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 Palarnau district.

During the appraisal the following are specific observation of committee:

- i. Revised Form – I to be submitted to include all information as discussed
- ii. Water quantity for dust suppression is to be revised
- iii. Waste generation & management to be provided for 10 years.
- iv. Land use planning data should be rectified.
- v. Green belt development in and around lease area to be provided for 10 years.
- vi. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. That the District Survey Report of Palamau is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any changes is noticed shall be follow in future.

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

- i. Revised Form – I has been submitted with all information.
- ii. Water quantity for dust suppression has been submitted.
- iii. Waste generation & management has been provided for 10 years.
- iv. Land use planning data has been rectified.
- v. Green belt development in and around lease area has been provided for 10 years.
- vi. Undertaking as required has been submitted.

**The committee also recommends the following project specific conditions :**

Plantation work in the safety zone with the spacing of 3x3 m and along haul road on both side in two rows with the spacing of 3x3 m will be done. Maintenance i.e. h/w, mortality replacement and watering for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of

*[Handwritten signatures and initials]*

Forest, Environment & Climate Change, Govt. of Jharkhand. Proper record will be maintained and it will be submitted with compliance report along with species name, no. of plants and survival status.

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 Jamua Alias Bishunpur Stone Deposit of Sri Brijesh Singh, Village : Jamua Alias Bishunpur, Thana : Naudiha Bazar, Dist. : Palamau, Jharkhand (2.751 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

4. Bikua Bricks Clay Deposit of M/s N.B. Bricks, Village : Bikua, P.S. : Patan, Dist. : Palamau, Jharkhand (0.696 Ha).

(Proposal no.: SIA/JH/MIN/187650/2020)

This is a new project which has been taken for appraisal on 05.01.2021.

This is Brick clay Mining Project with an area of 0.696 Ha [Plot No. 31, 32, 33 & 34, Khata No. 10 & 14]. The latitude and longitude of the project site is 24°09'42.0750"N to 24°09'46.8325"N and 84°11'00.1811"E to 84°11'04.6975"E.

**Salient features of the project:-**

Project Name	Bikua Bricks Clay Deposit
Location of Mine	Village : Bikua, P.S. : Patan, Dist. : Palamau, Jharkhand
Land Use	1.72 Acres (0.696 Ha)
Minerals of Mine	Brick Clay
Life of Mine	5 seasons
Total mineral reserves	7904 cum
Production of mine	1584 cum / season
Method of mining	Opencast manual method
No. of working days	180 days
Water demand	6.04 KLD
Sources of water	Water will be taken from private tanker.
Man Power	36
Nearest Railway Station	Daltonganj Railway Station nearly 18.4 Km towards SW direction
Nearest Airport	Ranchi Airport is about 149 Km in SE direction.
Project cost	Rs. 5 Lakh
EMP cost	Rs. 1.99 Lakh

Deputy Director, Palamau Tiger Project, North Division, Medininagar vide letter no. 159, dated 13.02.2020 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, Medininagar Division vide letter no. 6400, dated 12.12.17 certified that the distance of notified forest is East – 04 KM, West – 04 KM, North – 05 KM & South – 04 KM from proposed project site.

The CO, Patan, Palamau vide letter no. 599, dated 03.10.17 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyani and Register II.

DMO, Palamau vide memo no. 559, dated 17.05.2018 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 Palamau district.

During the appraisal the following are specific observation of committee:

- i. Water table vis – vis ultimate working depth in pictorial form to be provided to prove that working of mine will not intersect the ground water.
- ii. Justification of cost of EMP to be provided.
- iii. Land use to be corrected.
- vii. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. That the District Survey Report of Palamau is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any changes is noticed shall be follow in future.

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

- i. Water table vis – vis ultimate working depth in pictorial form has been provided to prove that working of mine will not intersect the ground water.
- ii. Justification of cost of EMP has been provided.
- iii. Land use corrected has been submitted.
- iv. Undertaking as required has been submitted

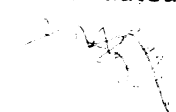
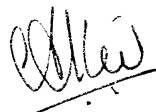
**The committee also recommends the following project specific conditions :**

Plantation work in the safety zone with the spacing of 3x3 m and along haul road on both side in two rows with the spacing of 3x3 m will be done. Maintenance i.e. h/w, mortality replacement and watering for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Proper record will be maintained and it will be submitted with compliance report along with species name, no. of plants and survival status.

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



10/09/2018/2018/6



12.12.18 decided that the proposal for Bikua Bricks Clay Deposit of M/s N.B. Bricks, Village : Bikua, P.S. : Patan, Dist. : Palamau, Jharkhand (0.696 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

5. Rajbari Ordinary Red Clay Mining Project of Sri Chapla Kanti Mandal, Village: Rajbari, P.S.: Pakuria, Dist.: Pakur, Jharkhand (0.62 Ha).

(Proposal No. : SIA/JH/MIN/188276/2020)

This is a new project which has been taken for appraisal on 05.01.2021.

This is a Red Clay Mining Project with an area of 0.62Ha [Plot No- 1262]. The latitude and longitude of the project site is 24°20'30.52"N to 24°20'38.48"N and 87°42'06.31"E to 87°42'11.55"E. The nearest railway station is Pakur at a distance of 36.2 km in NE direction and nearest airport is Sido Kanhu airport at a distance of 45.7 km. Total water requirement is 9.87 KLD.

The indicated project cost is Rs 5.0 Lakh and a provision of Rs 2.77 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 61,747.20 tonne

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

Year	Production of Ordinary Clay (Tonnes)
1 <sup>st</sup>	6156.80
2 <sup>nd</sup>	6160.00
3 <sup>rd</sup>	6176.00
4 <sup>th</sup>	6176.00
5 <sup>th</sup>	6174.40

The proposed production capacity is 3860 cum per annum (6176 TPA). Life of Mine is 10 years

DFO, Wildlife Hazaribagh vide letter no. 1627, dated 10.08.19 certified that the Udhawa Lake Bird Sanctuary is 69925 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

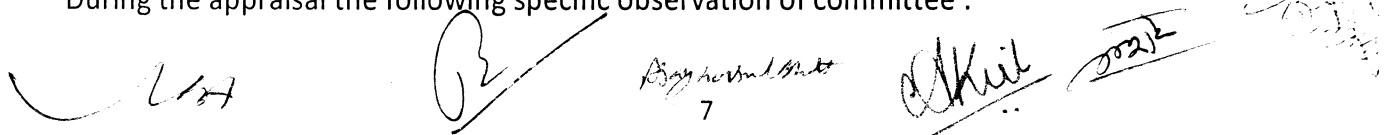
DFO, Pakur Division vide letter no. 1724, dated 31.08.18 certified that the distance of notified forest is 800 m from proposed project site.

The CO, Pakuria (Pakur) vide letter no. 607, dated 31.10.18 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. 2353, dated 17.12.2020 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 Pakur district.

During the appraisal the following specific observation of committee :



- i. Water table vis – vis ultimate working depth in pictorial form to be provided to prove that working of mine will not intersect the ground water.
- ii. Justification of cost of EMP to be provided.
- iii. Land use to be corrected.
- iv. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. That the District Survey Report of Pakur is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any changes is noticed shall be follow in future.

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

- i. Water table vis – vis ultimate working depth in pictorial form has been provided to prove that working of mine will not intersect the ground water.
- ii. Justification of cost of EMP has been provided.
- iii. Land use corrected has been submitted.
- iv. Undertaking as required has been submitted

**The committee also recommends the following project specific conditions :**

Plantation work in the safety zone with the spacing of 3x3 m and along haul road on both side in two rows with the spacing of 3x3 m will be done. Maintenance i.e. h/w, mortality replacement and watering for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Proper record will be maintained and it will be submitted with compliance report along with species name, no. of plants and survival status.

**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 Rajbari Ordinary Red Clay Mining Project of Sri Chapla Kanti Mandal, Village: Rajbari, P.S.: Pakuria, Dist.: Pakur, Jharkhand (0.62 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.**

6. Jyoti Pahari Kyanite Open Cast Mine Project of M/s Jharkhand State Mineral Development Corporation Ltd., Village: Jyoti Pahari, Block: Bahragora, Dist.: East Singhbhum, Jharkhand (20.331 Ha).

(Proposal No. : SIA/JH/MIN/54315/2019)

The committee members did not receive the EIA / EMP reports and other requisite documents. The consideration of project was deferred.



7. 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)

This is a new project which has been taken for appraisal on 05.01.2021.

This is Brick clay Mining Project with an area of 2.38 Ha [Plot No. 1114, Khata No. 199]. The latitude and longitude of the project site is 23°27'11.92"N to 23°27'17.52"N and 85°13'56.32"E to 85°14'04.40"E.

**Salient features of the project:-**

Project Name	Brick Soil Mining for M/s Ranchi Brick
Location of Mine	Village : Sanga, Thana : Pithoria, Dist. : Ranchi, Jharkhand
Land Use	Reyati land 5.88 Acres (2.38 Ha)
Minerals of Mine	Soil (Brick Soil)
Life of Mine	28 years
Total mineral reserves	33,384 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	7.15 KLD (Ghol process, 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	Ranchi railway station nearly 15.62 km
Nearest Airport	Ranchi Airport is about 17.83 Km.
Project cost	Rs. 10.58 Lakh
EMP cost	Rs. 5.80 Lakh

DFO, Ranchi Wildlife Division vide letter no. 1281, dated 19.04.2020 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, Ranchi Division vide letter no. 4798, dated 15.10.19 certified that the distance of notified forest is 250 m from proposed project site.

The CO, Kanke, Ranchi vide letter no. 993 (ii), dated 31.10.19 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyon and Register II.

DMO, Ranchi vide memo no. 1466, dated 19.12.2017 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 Ranchi district.

During the appraisal the following are specific observation of committee :

- The current certificate of DMO regarding cluster formation to be provided.

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- ii. Pre-Feasibility Report to be revised.
- iii. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. That the District Survey Report of Ranchi is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any changes is noticed shall be follow in future.

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

**8. 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)

This is a new project which has been taken for appraisal on 05.01.2021.

This is Brick clay Mining Project with an area of 1.48 Ha [Khata no. 116, 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 : GinjoThakurgaon, Dist. : Ranchi, Jharkhand
Land Use	Reyati 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 mine	6 Lakh nos of Bricks or 1200 cum of sub soil per annum.
Method of mining	Opencast manual mining
No. of working days	200 days
Water demand	9.05 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	Itki railway station nearly 20 km
Nearest Airport	Ranchi Airport is about 26.68 Km.
Project cost	Rs. 9.67 Lakh
EMP cost	Rs. 5.47 Lakh

DFO, Ranchi Wildlife Division vide memo no. 993, dated 06.09.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project comes under prohibited category of ESZ.

*[Handwritten signatures and initials]*

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, Burmu, 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. 1566, dated 28.12.2017 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 Ranchi district.

During the appraisal the following specific observation of committee:

- 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. That the District Survey Report of Ranchi is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any changes is noticed shall be follow in future.

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

**9. 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)**

This is a new project which has been taken for appraisal on 05.01.2021.

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	Reyati 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	6.25 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	Mesra railway station nearly 9.05 km
Nearest Airport	Ranchi Airport is about 20.37 Km.
Project cost	Rs. 8.29 Lakh
EMP cost	Rs. 3.95 Lakh

DFO, Ranchi Wildlife Division vide memo no. 981, dated 06.09.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project comes under prohibited category of 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. 2610, dated 30.10.2019 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 Ranchi district.

During the appraisal the following specific observation of committee :

- 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. That the District Survey Report of Ranchi is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any changes is noticed shall be follow in future.

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

**10. Panache 99 Building Complex (Residential Building & Commercial Building) of M/s Chotanagpur Engineering Works Pvt. Ltd., Village : Konka, Tehsil : Sadar, Dist. : Ranchi, Jharkhand.**

(Proposal No. : SIA/JH/MIS/190477 /2020)

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

**Salient Features of the project :**

Item	Details
Project Name	Panache 99 Building Complex (Residential Building & Commercial

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	<b>Building) of M/s Chotanagpur Engineering Works Pvt. Ltd.</b>
Location	Plot No. – MS 1675 & MS 1676 Village – Konka Tehsil – Sadar District – Ranchi State – Jharkhand

Particular	Residential Block	Commercial Block
Height	55.50 m	23.05 m
Total Built-Up Area & its break - up	Ground Floor : 719.12 m <sup>2</sup> 1 <sup>st</sup> to 15 <sup>th</sup> Floor : 11013.15 m <sup>2</sup> Terrace : 48.40 m <sup>2</sup> <b>Total Area: 11780.67 m<sup>2</sup></b>	Basement Floor : 4683.27 m <sup>2</sup> Lower Ground Floor : 3720.18 m <sup>2</sup> Ground Floor : 1267.56 m <sup>2</sup> 1 <sup>st</sup> Floor : 1192.81 m <sup>2</sup> 2 <sup>nd</sup> Floor : 1243.58 m <sup>2</sup> 3 <sup>rd</sup> Floor : 1202.89 m <sup>2</sup> 4 <sup>th</sup> Floor : 1111.07 m <sup>2</sup> 5 <sup>th</sup> Floor : 1076.25 m <sup>2</sup> Terrace : 36.12 m <sup>2</sup> <b>Total : 15533.73 m<sup>2</sup></b>
Number of Block	3 BHK : 45 4 BHK : 15 GYM : 1 Gaming : 1 Banquet Hall : 1 M Room : 1 <b>Total : 64</b>	Shops : 52 Office : 42 <b>Total : 94</b>
Municipal Solid Waste	Total Waste = 229.6 Kg Bio-Degradable = 91.84 Kg Non-Biodegradable = 137.76 Kg	Total Waste = 305.2 Kg Bio-Degradable = 122.08 Kg Non-Biodegradable = 183.12 Kg
Population	Permanent : 375 Persons Floating : 35 Persons	Office Staff : 399 Persons Shops Staff : 206 Persons Floating : 1862 Persons
Parking	Four Wheeler : - 89 Two Wheeler :- 64	Four Wheeler : - 86 Two Wheeler :- 268
Power Requirement	618 KVA 320 KVA (Back-up DG Set)	665 KVA 200 KVA (Back-Up DG Set)
RWH Pits	2 Pits	2 Pits
Plot Area (as per sale deed)	6032 m <sup>2</sup>	
Total Built-Up Area	27314.40 m <sup>2</sup>	
Capacity of STP	85 KLD	
Permissible FAR Area	18633.57 m <sup>2</sup>	
Proposed FAR Area	18561.05 m <sup>2</sup>	

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<b>Ground Coverage Permissible</b>	2021.12 m <sup>2</sup>
<b>Ground Coverage Proposed</b>	1893.63 m <sup>2</sup>
<b>Plantation &amp; Green Area</b>	577.76 sq. m
<b>Project Cost</b>	Rs. 51,16,13,000.00

## Water & Waste Water

Water Demand	Commercial	Residential	Total	Source
Domestic	12 KLD	36.90 KLD	48.90 KLD	Fresh Water
Flushing	23 KLD	18.45 KLD	41.45 KLD	Treated Water
Horticulture	--	--	15.00 KLD	Treated Water
Dust suppression	--	--	07.55 KLD	Treated Water
<b>Total</b>	<b>35 KLD</b>	<b>55.35 KLD</b>	<b>112.90 KLD</b>	

## Connectivity

**Road** - Proposed Project Site is well connected to a network of National highways including NH-75, NH-33 & NH-23 through network of City Roads.

**Railway** - Proposed Project Site is connected to Ranchi Railway Station (4 Km) which is connected to Howrah, Mumbai, Delhi, etc.

**Air** - Proposed Project Site is about 9 Km away from Birsa Munda Airport, Ranchi.

## Project Surroundings

Project site is located in Lalpur locality within Ranchi City.

- |                           |  |
|---------------------------|--|
| Nearest Airport           | - Birsa Munda Airport, Ranchi  |
| Nearest National Highways | - NH-75, NH-33 & NH-23   |
| Nearest Railway Station   | - Ranchi Railway Station   |
| Nearest City              | - Situated in Ranchi City  |
| River Body                | - Lake Pond, Ranchi Lake, Jail Pond, Kanke Dam, Subanrekha River, etc. |
| Hills / Valleys           | - Tagore Hill  |
| Site Topography           | - Flat   |
| Archeological Site        | - None within 10 km Radius   |
| National Parks            | - None within 10 km Radius   |
| Project / Reserve Forest  | - None within 10 km Radius   |
| Seismicity                | - II   |

## Solid Waste Management

### Construction Phase

Solid Waste generated during construction phase would include top soil, brick bats, pieces of reinforcing roads, pieces of wood boards & waste of other construction material, cans of paints electrical wire etc.

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Top Soil would be separately stored at pre-defined location within the site & preserved for landscaping. Sub – Soil would be stored for reuse in road making, plinth filling, etc.

Brickbats wastes of concrete would also be stored for road construction, plinth filling, etc. Surplus C & D waste would be handed over to Municipal Solid Waste Management Facility. E-Waste & Hazardous waste (cans of paints\_ would be collected in separates containers. Recyclable wastes including bags, packing, pcs of steel rods sold to rag pickers.

### Operational Phase

During operational phase of buildings municipal solid waste would be generated. They would be stored in different color bins.

- |                              |          |
|------------------------------|----------|
| ✓ Recyclable Waste           | - Blue   |
| ✓ Wet (Bio-Degradable) Waste | - Green  |
| ✓ E-Waste                    | - Yellow |
| ✓ Hazardous Waste            | - Red    |
| ✓ Inert Waste                | - Blue   |

Recyclable Wastes would be handed to rag pickers.

Bio-Degradable Waste & Inert Waste would be handed over to Municipal Solid Waste Management Facility.

E-Waste & Hazardous Wastes would be handed over to authorized recyclers.

DFO, Ranchi Wildlife Division vide memo no. 905, dated 29.12.2020 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, Ranchi Division vide letter no. 4979, dated 21.12.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Sahar, Ranchi vide memo no. 726 (ii), dated 28.11.2020 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyani and Register II.

In the course of appraisal the KML file was studied. Some structures were seen but it was not clear as to whether these structures seen in the map are old or newly constructed. Hence, the committee desired to visit the project site before final consideration of proposal. The visiting Committee Members i.e. Dr. Ajay Govind Bhatt and Dr. Kirti Avishek will submit the report within 10 days to SEAC.

**The project will be taken up for further consideration after receipt of site visit report.**

**Day 2 : January 06, 2021 [Wednesday]**

### Consideration of Proposals

1. Nimchua Stone Mine of M/s Popular Stone Works, Village : Nimchua, Thana : Maheshpur, Dist. : Pakur, Jharhand (0.87 Ha).

(Proposal No. : SIA/JH/MIN/188595 /2020)

This is a new project which has been taken for appraisal on 06.01.2021.

This is a Stone Mining Project with an area of 0.87Ha [Jamabandi no. 16 & 19, Plot no. 622, 631 & 632]. The latitude and longitude of the project site is 24°20'21.47"N to 24°20'22.53"N and 87°45'25.36"E to 87°45'23.33"E. The nearest railway station is Nalhati at a distance of 9.59 km and nearest airport is Surichua airport at a distance of 18.03 km. Total water requirement is 6 KLD (Drinking & Domestic use = 1 KLD, Plantation = 2 KLD & Dust Suppression = 3 KLD).

The indicated project cost is Rs 31.69 Lakh and a provision of Rs2.54 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 2,44,650 tonne

Probable Mineable Reserve : 86,554 tonne

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

Year	Production of stone (Tonnes)
1 <sup>st</sup>	33,062
2 <sup>nd</sup>	33,197
3 <sup>rd</sup>	33,032
4 <sup>th</sup>	33,110
5 <sup>th</sup>	32,648

The proposed production capacity is 11,856 cum per annum (33,197 TPA). Life of Mine is 10 years DFO, Wildlife Hazaribagh vide letter no. 1693, dated 21.08.19 certified that the Udhwa Lake Bird Sanctuary is 69,655 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, Pakur Division vide letter no. 1161, dated 28.09.19 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Maheshpur vide letter no.516, dated 20.07.19 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. 828, dated 08.06.2020 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.

During the presentation the following are specific observation of committee :

- i. Revised land use plan with details at all stages to be provided.
- ii. Ultimate working depth and water table to prove that working of mine will not intersect water table.
- iii. Technical details mentioned in Form-2 should be in MTPA.
- iv. Details of green belt development in and around lease area to be provided.
- v. Revised Form – I
- vi. Undertaking affirming that :
  - a. Ground water will not be used for the mining activities.

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- b. That the District Survey Report of Pakur is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
- c. That the contiguous / cluster area report issued by the Mines Department shall be undertaken if any changes is noticed shall be follow in future.

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

- i. Revised land use plan with details at all stages has been provided.
- ii. Ultimate working depth and water table has been submitted.
- iii. Technical details mentioned in Form-2 has been corrected.
- iv. Details of green belt development in and around lease area has been provided.
- v. Revised Form – I has been submitted.
- vi. Undertaking as required has been submitted

**The committee also recommends the following project specific conditions :**

Plantation work in the safety zone with the spacing of 3x3 m and along haul road on both side in two rows with the spacing of 3x3 m will be done. Maintenance i.e. h/w, mortality replacement and watering for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Proper record will be maintained and it will be submitted with compliance report along with species name, no. of plants and survival status.

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 Nimchua Stone Mine of M/s Popular Stone Works, Village : Nimchua, Thana : Maheshpur, Dist. : Pakur, Jharhand (0.87 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

2. Anguthia Stone Mine of M/s HM and Singh Stone Works, Village : Anguthia, Thana : Hiranpur, Dist. : Pakur, Jharkhand (2.13 Ha).

**(Proposal No.: SIA/JH/MIN/188330 /2020)**

This is a new project which has been taken for appraisal on 06.01.2021.

This is a Stone Mining Project with an area of 2.13Ha [Jamabandi no. 25, 13&08, Plot no. 487 (P), 488, 493, 494 (P), 495 (P), 496 (P), 497 (P), 498 (P) & 500 (P) ]. The latitude and longitude of the project site is 24°44'49.82"Nto 24°44'50.56"N and 87°47'21.23"Eto 87°47'17.78"E. The nearest railway station is Kotalpukur at a distance of 3.63 km and nearest airport is Malda airport at a distance of 44.47 km. Total water requirement is 6 KLD (Drinking & Domestic use = 1 KLD, Plantation = 2 KLD & Dust Suppression = 3 KLD).

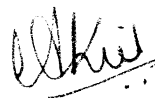
The indicated project cost is Rs43.34 Lakh and a provision of Rs 2.97 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 9,55,189tonne



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Probable Mineable Reserve : 1,68,252 tonne

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

Year	Production of stone (Tonnes)
1 <sup>st</sup>	1,10,482
2 <sup>nd</sup>	1,12,112
3 <sup>rd</sup>	1,11,891
4 <sup>th</sup>	1,12,098
5 <sup>th</sup>	1,12,238

The proposed production capacity is 40,085 cum per annum (1,12,238 TPA). Life of Mine is 10 years.

DFO, Wildlife Hazaribagh vide letter no. 412, dated 17.02.2020 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, Pakur Division vide letter no. 29, dated 02.01.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site and PP has also get clarification from DFO, Sahebganj Division vide letter no. 261, dated 01.02.2020 certified that the distance of notified forest is more than 250 m from proposed project site.

The CO, Hiranpur vide letter no.536, dated 21.10.19 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. 2027, dated 17.11.2020 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.

During the presentation the following are specific observation of committee :

- i. Revised land use plan to be provided
- ii. Ultimate working depth and water table to prove that working of mine will not intersect water table .
- iii. Technical details mentioned in Form-2 should be in MTPA.
- iv. Details of green belt development in and around lease area to be provided.
- v. Revised Form – I.
- vi. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. That the District Survey Report of Pakur is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Mines Department shall be undertaken if any changes is noticed shall be follow in future.

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

- i. Revised land use plan with details at all stages has been provided.
- ii. Ultimate working depth and water table has been submitted.
- iii. Technical details mentioned in Form-2 has been corrected.
- iv. Details of green belt development in and around lease area has been provided.
- v. Revised Form – I has been submitted.
- vi. Undertaking as required has been submitted

The committee also recommends the following project specific conditions :

Plantation work in the safety zone with the spacing of 3x3 m and along haul road on both side in two rows with the spacing of 3x3 m will be done. Maintenance i.e. h/w, mortality replacement and watering for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Proper record will be maintained and it will be submitted with compliance report along with species name, no. of plants and survival status.

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 Anguthia Stone Mine of M/s HM and Singh Stone Works, Village : Anguthia, Thana : Hiranpur, Dist. : Pakur, Jharkhand (2.13 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

3. Mandardanga Stone Mine of M/s Radhika Stone Works, Village : Mandardanga, P.O.: Baliadanga, Block + P.S. : Maheshpur, Dist. : Pakur, Jharkhand (1.81 Ha).

(Proposal No. : SIA/JH/MIN/190344 /2020)

This is a new project which has been taken for appraisal on 06.01.2021.

This is a Stone Mining Project with an area of 1.81Ha [Khatano. 02, Plot no. 68 (P)]. The latitude and longitude of the project site is 24°28'0.48"N to 24°27'49.77"N and 87°34'36.05"E to 87°34'30.25"E. The nearest railway station is Shikaripara at a distance of 28 km and nearest airport is Murarai airport at a distance of 28.48 km. Total water requirement is 2.64 KLD.

The indicated project cost is Rs54.96 Lakh and a provision of Rs6.86 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineral Reserve : 4,62,332 tonne

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

Year	Production (Tonnes)
1 <sup>st</sup>	55,987.2
2 <sup>nd</sup>	55,549.8
3 <sup>rd</sup>	55,112.4
4 <sup>th</sup>	55,452.6
5 <sup>th</sup>	57,542.4

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The proposed production capacity is 21,312 cum per annum (57,542 TPA). Life of Mine is 5.79 years

DFO, Wildlife Hazaribagh vide letter no. 2189, dated 14.10.19 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, Pakur Division vide letter no. 1172, dated 28.09.19 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Maheshpur vide letter no.796, dated 24.09.19 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. 1814, dated 29.09.2020 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 Pakur district.

During the presentation the following are specific observation of committee :

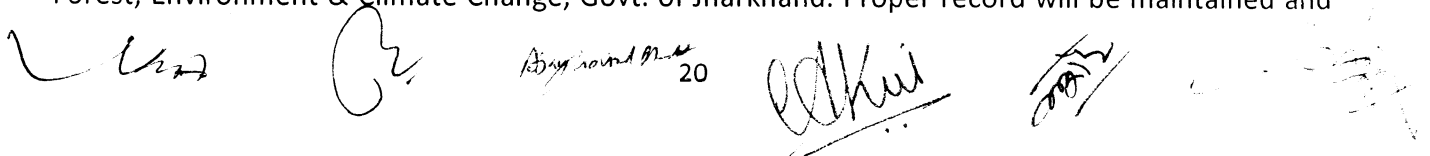
- i. Drawing to prove that there will be no intersecting of water table due to mining activity.
- ii. Revised EMP with regard to CER budget to be included in EMP.
- iii. Compliance in response of observation made by DFO in his certificate.
- iv. Details of green belt development in and around lease area to be provided.
- v. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. That the District Survey Report of Pakur is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Mines Department shall be undertaken if any changes is noticed shall be follow in future.

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

- i. Drawing to prove that there will be no intersecting of water table due to mining activity has been submitted.
- ii. Revised EMP with regard to CER budget included in EMP has been submitted.
- iii. Compliance in response of observation made by DFO in his certificate has been submitted.
- iv. Details of green belt development in and around lease area has been submitted.
- v. Undertaking as required has been submitted

**The committee also recommends the following project specific conditions :**

Plantation work in the safety zone with the spacing of 3x3 m and along haul road on both side in two rows with the spacing of 3x3 m will be done. Maintenance i.e. h/w, mortality replacement and watering for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Proper record will be maintained and



it will be submitted with compliance report along with species name, no. of plants and survival status.

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 Mandardanga Stone Mine of M/s Radhika Stone Works, Village : Mandardanga, P.O.: Baliadangal, Block + P.S. : Maheshpur, Dist. : Pakur, Jharkhand (1.81 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

4. Dhowadangal & Bhimpur Stone Mine of Shri Kaysuddin Shekh, Mouza : Dhowadangal - 05 & Bhimpur - 06, P.S. : Maheshpur, Dist. : Pakur, Jharkhand (2.63 Ha).

(Proposal No. : SIA/JH/MIN/187383 /2020)

This is a new project which has been taken for appraisal on 06.01.2021.

This is a Stone Mining Project with an area of 2.63Ha [Khata no. 18, 05, 24, 13/11, Plot no. 850 (P), 835 (P), 849, 845, 729, 731]. The latitude and longitude of the project site is 24°34'30.61"N to 24°34'26.23"N and 87°43'19.85"E to 87°43'20.14"E. The nearest railway station is Nagarnabi at a distance of 14.3 km and nearest airport is Malda airport at a distance of 63 km. Total water requirement is 6 KLD.

The indicated project cost is Rs81.13 Lakh and a provision of Rs 6.90 Lakh has been indicated for Environment management.


The details of mine capacity as per Approved Mining Plan are


Proved Mineable Reserve	:	12,89,728 tonne
Probable Mineable Reserve	:	3,15,974 tonne

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

Year	Production (Tonnes)
1 <sup>st</sup>	1,18,194
2 <sup>nd</sup>	1,19,314
3 <sup>rd</sup>	1,18,818
4 <sup>th</sup>	1,19,974
5 <sup>th</sup>	1,20,075

The proposed production capacity is 42,884 cum per annum (1,20,075 TPA). Life of Mine is 10 years

 DFO, Wildlife Hazaribagh vide letter no. 2173, dated 10.10.19 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, Pakur Division vide letter no. 1224, dated 01.10.19 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Maheshpur vide letter no.834, dated 21.10.19 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. 1022, dated 04.07.2020 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 Pakur district.

During the presentation the following specific observation of committee :

- i. Drawing to prove that there will be no intersecting of water table due to mining activity.
- ii. Revised EMP with regard to CER budget to be included in EMP.
- iii. Compliance in response of observation made by DFO in his certificate.
- iv. Details of green belt development in and around lease area to be provided.
- v. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. That the District Survey Report of Pakur is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Mines Department shall be undertaken if any changes is noticed shall be follow in future.

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

- i. Drawing to prove that there will be no intersecting of water table due to mining activity has been submitted.
- ii. Revised EMP with regard to CER budget included in EMP has been submitted.
- iii. Compliance in response of observation made by DFO in his certificate has been submitted.
- iv. Details of green belt development in and around lease area has been submitted.
- v. Undertaking as required has been submitted

**The committee also recommends the following project specific conditions :**

Plantation work in the safety zone with the spacing of 3x3 m and along haul road on both side in two rows with the spacing of 3x3 m will be done. Maintenance i.e. h/w, mortality replacement and watering for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Proper record will be maintained and it will be submitted with compliance report along with species name, no. of plants and survival status.

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 Dhowadangal & Bhimpur Stone Mine of Shri Kaysuddin Shekh, Mouza : Dhowadangal - 05 & Bhimpur - 06, P.S. : Maheshpur, Dist. : Pakur, Jharkhand (2.63 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

5. Khagachua Stone Mine of M/s Dinesh Stone Works, Mouza : Khagachua, P.O. : Khagachua, P.S. + Block : Pakuria, Dist. : Pakur, Jharkhand (0.82 Ha).

(Proposal No. : SIA/JH/MIN/190323 /2020)



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This is a new project which has been taken for appraisal on 06.01.2021.

This is a Stone Mining Project with an area of 0.82Ha [Khata no. 21, Plot no. 156 to 162, 164, 168 & 169 (P)]. The latitude and longitude of the project site is 24°34'30.61"N to 24°34'26.23"N and 87°43'19.85"E to 87°43'20.14"E. The nearest railway station is Nalhati at a distance of 11.70 km and nearest airport is Malda airport at a distance of 82.50 km. Total water requirement is 5.20 KLD.

The indicated project cost is Rs 54.35 Lakh and a provision of Rs 6.25 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 1,04,827tonne

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

Year	Production (Tonnes)
1 <sup>st</sup>	25,758
2 <sup>nd</sup>	18,371
3 <sup>rd</sup>	18,711
4 <sup>th</sup>	20,704
5 <sup>th</sup>	19,537.2

The proposed production capacity is 9540 cum per annum (25,758 TPA). Life of Mine is 5.08 years.

DFO, Wildlife Hazaribagh vide letter no. 2197, dated 15.10.19 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, Pakur Division vide letter no. 608, dated 18.03.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Pakuria (Pakur) vide letter no.729, dated 04.10.19 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. 1006, dated 01.07.2020 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.

During the presentation the following specific observation of committee :

- Drawing to prove that there will be no intersecting of water table due to mining activity.
- Revised EMP with regard to CER budget to be included in EMP.
- Compliance in response of observation made by DFO in his certificate.
- Details of green belt development in and around lease area to be provided.
- Undertaking affirming that :
  - Ground water will not be used during mining process.

- b. That the District Survey Report of Pakur is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
- c. That the contiguous / cluster area report issued by the Mines Department shall be undertaken if any changes is noticed shall be follow in future.

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

- i. Drawing to prove that there will be no intersecting of water table due to mining activity has been submitted.
- ii. Revised EMP with regard to CER budget included in EMP has been submitted.
- iii. Compliance in response of observation made by DFO in his certificate has been submitted.
- iv. Details of green belt development in and around lease area has been submitted.
- v. Undertaking as required has been submitted

The committee also recommends the following project specific conditions :

Plantation work in the safety zone with the spacing of 3x3 m and along haul road on both side in two rows with the spacing of 3x3 m will be done. Maintenance i.e. h/w, mortality replacement and watering for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Proper record will be maintained and it will be submitted with compliance report along with species name, no. of plants and survival status.

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 Khagachua Stone Mine of M/s Dinesh Stone Works, Mouza : Khagachua, P.O. : Khagachua, P.S. + Block : Pakuria, Dist. : Pakur, Jharkhand (0.82 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

6. Bastadih Stone Mine of Shri Ajay Kumar Bhagat, Mouza : Bastadih, P.S. : Hiranpur, Dist. : Pakur, Jharkhand (2.87 Ha).

(Proposal No. : SIA/JH/MIN/190155 /2020)

This is a new project which has been taken for appraisal on 06.01.2021.

This is a Stone Mining Project with an area of 2.87Ha [Khata no. 05, 12, 17, 18, 23, Plot no. 197 (P), 198, 199, 200, 201 (P)]. The latitude and longitude of the project site is 24°35'38.30"N to 24°35'37.68"N and 87°43'0.91"E to 87°43'3.87"E. The nearest railway station is Nagarnabi at a distance of 15 km and nearest airport is Malda airport at a distance of 62 km. Total water requirement is 6 KLD.

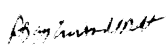
The indicated project cost is Rs84.15 Lakh and a provision of Rs 6.25 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 11,34,744tonne







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Probable Mineable Reserve : 3,02,064 tonne

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

Year	Production (Tonnes)
1 <sup>st</sup>	1,23,502
2 <sup>nd</sup>	1,23,273
3 <sup>rd</sup>	1,23,469
4 <sup>th</sup>	1,23,304
5 <sup>th</sup>	1,23,368

The proposed production capacity is 44,108 cum per annum (1,23,502 TPA). Life of Mine is 11.7 years.

DFO, Wildlife Hazaribagh vide letter no. 2174, dated 10.10.19 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, Pakur Division vide letter no. 1164, dated 28.09.2019 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Hiranpur vide letter no.517, dated 09.10.19 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. 1202, dated 29.07.2020 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 Pakur district.

During the presentation the following specific observation of committee :

- i. Drawing to prove that there will be no intersecting of water table due to mining activity.
- ii. Revised EMP with regard to CER budget to be included in EMP.
- iii. Compliance in response of observation made by DFO in his certificate.
- iv. Details of green belt development in and around lease area to be provided.
- v. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. That the District Survey Report of Pakur is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Mines Department shall be undertaken if any changes is noticed shall be follow in future.

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

- i. Drawing to prove that there will be no intersecting of water table due to mining activity has been submitted.
- ii. Revised EMP with regard to CER budget included in EMP has been submitted.

- iii. Compliance in response of observation made by DFO in his certificate has been submitted.
- iv. Details of green belt development in and around lease area has been submitted.
- v. Undertaking as required has been submitted.

The committee also recommends the following project specific conditions :

Plantation work in the safety zone with the spacing of 3x3 m and along haul road on both side in two rows with the spacing of 3x3 m will be done. Maintenance i.e. h/w, mortality replacement and watering for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Proper record will be maintained and it will be submitted with compliance report along with species name, no. of plants and survival status.

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 Bastadih Stone Mine of Shri Ajay Kumar Bhagat, Mouza : Bastadih, P.S. : Hiranpur, Dist. : Pakur, Jharkhand (2.87 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

7. Siramgarya Stone Mine of M/s Data Baba Stone Works, Mouza : Siramgarya, P.S. : Maheshpur, Dist. : Pakur, Jharkhand (1.37 Ha).

(Proposal No. : SIA/JH/MIN/190325 /2020)

This is a new project which has been taken for appraisal on 06.01.2021.

This is a Stone Mining Project with an area of 1.37Ha [Khata no. 08 & 28, Plot no. 65 to 70]. The latitude and longitude of the project site is 24°20'33.98"N to 24°20'32.60"N and 87°45'23.22"E to 87°45'22.72"E. The nearest railway station is Nalhati at a distance of 9.80 km and nearest airport is Malda airport at a distance of 82.61 km. Total water requirement is 6 KLD.

The indicated project cost is Rs63.68 Lakh and a provision of Rs 6.35 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	7,69,597 tonne
Probable Mineable Reserve	:	1,23,760 tonne

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

Year	Production (Tonnes)
1 <sup>st</sup>	87,318
2 <sup>nd</sup>	88,250
3 <sup>rd</sup>	88,480
4 <sup>th</sup>	88,981
5 <sup>th</sup>	88,435

The proposed production capacity is 31,779 cum per annum (88,981 TPA). Life of Mine is 10 years

DFO, Wildlife Hazaribagh vide letter no. 103, dated 10.01.2020 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, Pakur Division vide letter no. 68, dated 03.01.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Maheshpur vide letter no.875, dated 13.11.19 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. 269, dated 19.02.2020 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.

During the presentation the following specific observation of committee :

- i. Drawing to prove that there will be no intersecting of water table due to mining activity.
- ii. Revised EMP with regard to CER budget to be included in EMP.
- iii. Compliance in response of observation made by DFO in his certificate.
- iv. Details of green belt development in and around lease area to be provided.
- v. Undertaking affirming that :
  - a. Ground water will not be used during mining process.
  - b. That the District Survey Report of Pakur is prepared by the Competent Authority and abide to follow any directives issued by any court of law in this regard in future.
  - c. That the contiguous / cluster area report issued by the Mines Department shall be undertaken if any changes is noticed shall be follow in future.

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

- i. Drawing to prove that there will be no intersecting of water table due to mining activity has been submitted.
- ii. Revised EMP with regard to CER budget included in EMP has been submitted.
- iii. Compliance in response of observation made by DFO in his certificate has been submitted.
- iv. Details of green belt development in and around lease area has been submitted.
- v. Undertaking as required has been submitted

**The committee also recommends the following project specific conditions :**

Plantation work in the safety zone with the spacing of 3x3 m and along haul road on both side in two rows with the spacing of 3x3 m will be done. Maintenance i.e. h/w, mortality replacement and watering for the life of mine as per norms and schedule issued by PCCF, Development, Deptt. of Forest, Environment & Climate Change, Govt. of Jharkhand. Proper record will be maintained and it will be submitted with compliance report along with species name, no. of plants and survival status.

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 Siramgarya Stone Mine of M/s Data Baba Stone Works, Mouza : Siramgarya, P.S. : Maheshpur, Dist. : Pakur, Jharkhand (1.37 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

Day 3 : January 07, 2021 [Thursday]


Consideration of Proposals

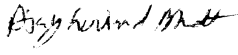
1. Ulatu Stone Mine of Sri Niraj Kumar Singh at Vill.- Ulatu, Namkum, Ranchi (5.82 Ha).


This is a new project which has been taken for appraisal on 07.01.2021.


Project Proponent did not attend the meeting without any intimation in two consecutive meetings. Hence, project is being deferred and will be considered after the request of the Project Proponent.

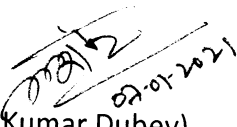
The meeting concluded with thanks to all present.

  
(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-IAJI (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects

wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

- xi. The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- xii. A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- xiii. State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- xiv. The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ([www.Environmentclearance.nic.in](http://www.Environmentclearance.nic.in)). A copy of the advertisement may be forwarded to the concerned MoEF & CC Regional Office for compliance and record.
- xv. The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

## II. Air quality monitoring and preservation

- i. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCUI, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- ii. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from ail sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance: Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC/ Central Pollution Control Board.

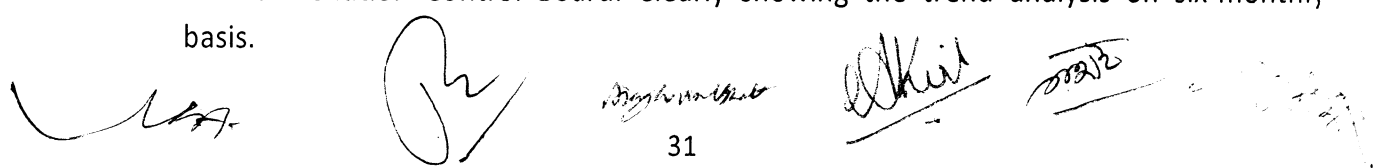
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### III. Water quality monitoring and preservation

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

K. S.

K. S.





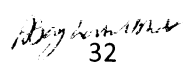



- v. Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The 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, 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.

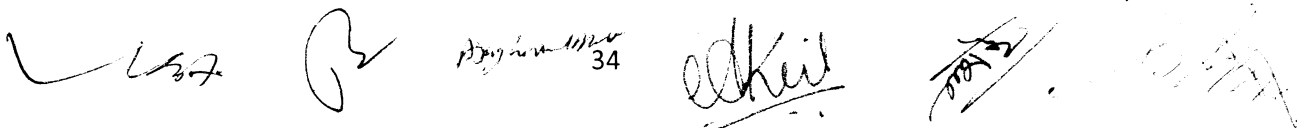
#### VI. Land reclamation

- 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.
- 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.

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should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

#### VIII. Green Belt





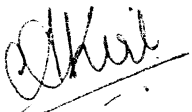

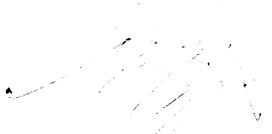
- i. The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- ii. The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- iii. The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- iv. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly 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 maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1),Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.

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- v. The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- vi. Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- vii. The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

#### X. Corporate Environment Responsibility (CER)

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

#### 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.

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