

**MINUTES OF THE 87<sup>th</sup> MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 23<sup>RD</sup>, 24<sup>TH</sup> & 25<sup>TH</sup> FEBRUARY, 2021**

The 87<sup>th</sup> meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> February, 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 25<sup>th</sup> January, 2021. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite information / clarifications in the earlier meeting of SEAC, were also considered for appraisal. The Project Proponents have been asked to make technical presentation for the appraisal of their projects before the committee.

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

**Day 1 : February 23, 2021 [Tuesday]**

**Consideration of Proposals**

1. 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)

Name of the consultant : Crystal Consultants, Ranchi.

This is new project which has been taken for appraisal on 23.02.2021.

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

**Salient Features of the project :**

Item	Details
Project Name	Panache 99 Building Complex (Residential Building & Commercial Building) of M/s Chotanagpur Engineering Works Pvt. Ltd.
Location	Plot No. - MS 1675 & MS 1676 Village - Konka Tehsil - Sadar

District	- Ranchi	
State	- Jharkhand	
	<b>Latitude</b>	<b>Longitude</b>
	23.375078°	85.332983°
	23.375960°	85.333043°
	23.376040°	85.332814°
	23.375204°	85.332517°

Particular	Residential Block	Commercial Block
<b>Height</b>	55.50 m	23.05 m
<b>Total Built-Up Area &amp; its break - up</b>	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>
<b>Number of Block</b>	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>
<b>Municipal Solid Waste</b>	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
<b>Population</b>	Permanent : 375 Persons Floating : 35 Persons	Office Staff : 399 Persons Shops Staff : 206 Persons Floating : 1862 Persons
<b>Parking</b>	Four Wheeler : - 89 Two Wheeler :- 64	Four Wheeler : - 86 Two Wheeler :- 268
<b>Power Requirement</b>	618 KVA 320 KVA (Back-up DG Set)	665 KVA 200 KVA (Back-Up DG Set)
<b>RWH Pits</b>	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>
Ground Coverage Permissible	2021.12 m <sup>2</sup>
Ground Coverage Proposed	1893.63 m <sup>2</sup>
Plantation & Green Area	577.76 sq. m
Project Cost	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.

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.

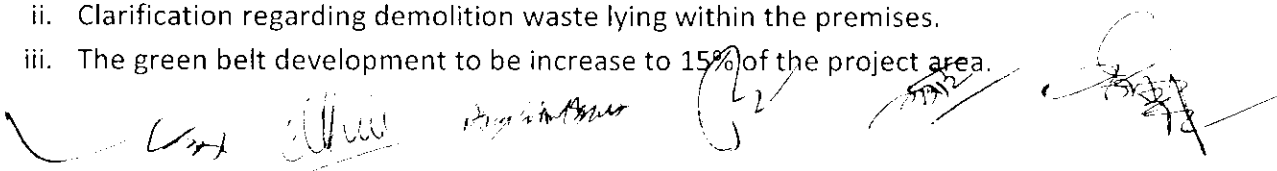
Earlier the proposal was presented in SEAC on 19-21.01.2021 in which requisite documents were sought are under –

- i. No new construction has been seen at the proposed site.
- ii. 15% green cover to be maintained. Apart from this vertical garden and terrace garden should be incorporated to achieve the 20% total green belt.
- iii. Written clarification is sought upon the period of demolition as an affidavit by the Project authorities.

**The following are the observation of the committee as per the site visit report :**

The Project authorities required to submit an affidavit w.r.t. :

- i. Separate STPs will be constructed for the residential complex & commercial complex.
- ii. Clarification regarding demolition waste lying within the premises.
- iii. The green belt development to be increase to 15% of the project area.

*KCC*  
*MS*  


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

- That green cover will be done over an area of 15% within the site.
- That 2 STPs (one for commercial and one for residential building with capacity of 35 KLD in commercial and 50 KLD in residential) will be installed.
- That the demolition waste at the site was done before acquiring the land and the demolition waste has been used for land filling within the site.

The committee also recommends the following project specific conditions :

- All the MSW generated at the site will be suitably segregated, stored & disposed.
- All the common places & streets should incorporate solar lights only.
- Impact of increased traffic load should be suitably addressed.

Based on the presentation made and information provided, the Committee decided that the proposal for Panache 99 Building Complex (Residential Building & Commercial Building) of M/s Chotanagpur Engineering Works Pvt. Ltd., Village : Konka, Tehsil : Sadar, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

- Brick Soil Mining for M/s Nasim Traders (Sun Bricks), Village : Kochbong, Thana : Namkum, Dist. : Ranchi, Jharkhand (1.53 Ha).

(Proposal No. : SIA/JH/MIN/191940 /2021)

Name of the consultant : Crystal Consultants, Ranchi.

This is a new project which has been taken for appraisal on 23.02.2021.

This is Brick clay Mining Project with an area of 1.53 Ha [Khata No. 56, Plot No. 250(P)]. The latitude and longitude of the project site is 23°16'13.23"N to 23°16'19.82"N and 85°21'36.47"E to 85°21'40.97"E.

Salient features of the project:-

Project Name	Bricks Soil Mining for M/s Nasim Traders (Sun Bricks)
Location of Mine	Village : Kochbong, Thana : Namkum, Dist. : Ranchi, Jharkhand
Land Use	3.77 Acres (1.53 Ha)
Minerals of Mine	Soil (Brick Soil)
Life of Mine	Life of mine will be 16 years.
Total mineable reserves	19131 cum
Proposed production of mine	6,00,000 nos of Bricks or 1140 cum of sub soil per annum.
Method of mining	Opencast manual method
No. of working days	200 days

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Water demand	7.57 KLD (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	Hatia Railway Station nearly 6.94 Km.
Nearest Airport	Ranchi Airport is about 6.23 Km.
Project cost	Rs. 11.05 Lakh
EMP cost	Capital cost : 6.71 Lakh , Recurring cost : Rs. 1.10 Lakh (per year)

DFO, Wildlife Ranchi vide memo no. 1282, dated 19.11.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Ranchi Division vide letter no. 4302, dated 11.09.2019 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Namkum (Ranchi) vide letter no. 1501(ii), dated 11.10.2019 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyani and Register II.

DMO, Ranchi vide memo no. 1399, dated 06.12.2017 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.

The Project Authorities has submitted following undertakings affirming that :

- Ground water will not be used in mining process.
- That the District Survey Report of Ranchi is prepared by the Competent Authority and shall abide by any directives issued by any court of law in this regard in future.
- That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any change is noticed shall be followed in future.

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

Gabion 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 Brick Soil Mining for M/s Nasim Traders (Sun Bricks), Village : Kochbong, Thana : Namkum, Dist. : Ranchi, Jharkhand (1.53 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

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3. Brick Soil Mining for M/s B.S.P. Bricks, Village : Hochar, Thana : Ratu, Dist. : Ranchi, Jharkhand (1.01 Ha).

(Proposal No. : SIA/JH/MIN/193973/2021)

Name of the consultant : Crystal Consultants, Ranchi.

This is a new project which has been taken for appraisal on 23.02.2021.

This is Brick clay Mining Project with an area of 1.01 Ha [Khata No. 01, Plot No. 84(P)]. The latitude and longitude of the project site is 23°28'03.21"N to 23°28'07.29"N and 85°11'45.76"E to 85°11'49.44"E.

**Salient features of the project:-**

Project Name	Bricks Soil Mining for M/s B.S.P. Bricks
Location of Mine	Village : Hochar, Thana : Ratu, Dist. : Ranchi, Jharkhand
Land Use	2.50 Acres (1.01 Ha)
Minerals of Mine	Soil (Brick Soil)
Life of Mine	Life of mine will be 11 years.
Total mineable reserves	12913 cum
Proposed production of mine	6,00,000 nos of Bricks or 1140 cum of sub soil per annum.
Method of mining	Opencast manual method
No. of working days	200 days
Water demand	3.43 KLD (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 14.64 Km.
Nearest Airport	Ranchi Airport is about 21.20 Km.
Project cost	Rs. 9.93 Lakh
EMP cost	Capital cost : Rs. 5.40 Lakh, Recurring cost : 0.91 Lakh per year

DFO, Wildlife Ranchi vide memo no. 1165, dated 21.10.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Ranchi Division vide letter no.5020, dated 31.10.2019 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Ratu (Ranchi) vide letter no. 825(ii), dated 30.10.2019 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyan and Register II.

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DMO, Ranchi vide memo no. 1021, dated 22.09.2017 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.

The Project Authorities has submitted following undertakings affirming that :

- Ground water will not be used in mining process.
- That the District Survey Report of Ranchi is prepared by the Competent Authority and shall abide by any directives issued by any court of law in this regard in future.
- That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any change is noticed shall be followed in future.

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

Gabion 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 Brick Soil Mining for M/s B.S.P. Bricks, Village : Hochar, Thana : Ratu, Dist. : Ranchi, Jharkhand (1.01 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.**

- Brick Soil Mining for M/s B.K.B. Bricks, Village : Sanga, Thana : Pithoriya, Dist. : Ranchi, Jharkhand (0.999 Ha).

(Proposal No. : SIA/JH/MIN/194404/2021)

Name of the consultant : Crystal Consultants, Ranchi.

This is a new project which has been taken for appraisal on 23.02.2021.

This is Brick clay Mining Project with an area of 0.999 Ha [Khata No. 302, Plot No. 1130]. The latitude and longitude of the project site is 23°27'25.43"N to 23°27'29.66"N and 85°14'26.40"E to 85°14'30.26"E.

**Salient features of the project:-**

Project Name	Bricks Soil Mining for M/s B.K.B. Bricks
Location of Mine	Village : Sanga, Thana : Pithoriya, Dist. : Ranchi, Jharkhand
Land Use	2.470 Acres (0.999 Ha)
Minerals of Mine	Soil (Brick Soil)
Life of Mine	Life of mine will be 10 years.
Total mineable reserves	12545 cum

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Proposed production of mine	6,00,000 nos of Bricks or 1200 cum of sub soil per annum.
Method of mining	Opencast manual method
No. of working days	200 days
Water demand	4.1 KLD (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	20
Nearest Railway Station	Ranchi Railway Station nearly 14.34 Km.
Nearest Airport	Ranchi Airport is about 17.73 Km.
Project cost	Rs. 10.87 Lakh
EMP cost	Capital cost : Rs. 5.67 Lakh, Recurring cost : 0.94 Lakh per year.

DFO, Wildlife Ranchi vide memo no. 1167, dated 21.10.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Ranchi Division vide letter no.260, dated 18.01.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.

The CO, Kanke, Ranchi vide letter no. 928(ii), dated 12.10.2019 has mentioned the plot no. of the project are not recorded as "Jangle Jhari" in Khatiyani and Register II.

DMO, Ranchi vide memo no. 1257, dated 21.11.2017 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.

The Project Authorities has submitted following undertakings affirming that :

- Ground water will not be used in mining process.
- That the District Survey Report of Ranchi is prepared by the Competent Authority and shall abide by any directives issued by any court of law in this regard in future.
- That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any change is noticed shall be followed in future.

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

Gabion 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 Brick Soil Mining for M/s B.K.B. Bricks, Village : Sanga, Thana : Pithoriya, Dist. : Ranchi, Jharkhand (0.999 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

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

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

The Project Authorities vide letter dated 23.02.2021 requested to defer appraisal to the next SEAC meeting. The Committee considered the request and accepted.

6. Demba Stone Deposit of M/s Amit Kumar Gupta & Vinod Yadav, Mouza : Demba, P.S. : Borio, Dist. : Sahibganj, Jharkhand (3.61 Ha).

(Proposal No. : SIA/JH/MIN/192062/2019)

Name of the consultant : Crystal Consultants, Ranchi.

This is a new project which has been taken for appraisal on 23.02.2021.

This is a Stone Mining Project with an area of 3.61 Ha [J. B. No. 16, 01 & 21, Plot no. 168(P), 172 & 173, 235]. The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj, Jharkhand vide letter no. 592/M dated 06.03.2018. The nearest railway station is Karamtola at a distance of 4.43 km and nearest airport is Netaji Subhas Chandra Bose International Airport, Kolkata at a distance of 299 km SE. Total water requirement is 10.46 KLD (Drinking : 0.56 KLD, Dust Suppression : 4.8 KLD, Green Belt : 5.1 KLD).

The indicated project cost is Rs 76.08 Lakhs and a provision of capital cost 22.88 Lakh , recurring cost Rs 3.84 Lakh per year has been indicated for Environment management.

Co-ordinates of the mine :

Latitude	Longitude
25°13'28.34"N	87°34'56.79"E
25°13'40.85"N	87°35'03.64"E

The details of mine capacity as per Approved Mining Plan are

Mineable Reserve : 4,34,839 cum

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

Year	Production of stone (cum)
1 <sup>st</sup>	15032
2 <sup>nd</sup>	15030
3 <sup>rd</sup>	15000
4 <sup>th</sup>	15000
5 <sup>th</sup>	15010

The proposed production capacity is 15032 cum per annum. Life of Mine is 29 years.

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DFO, Wildlife Hazaribagh vide letter no. 1597, dated 09.08.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

DFO, Sahebganj Division vide memo no. 1934, dated 20.10.2017 certified that the distance of reserved / protected forest is 580 m from proposed project site.

The CO, Mandro, Sahebganj vide memo no. 770, dated 10.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Sahebganj vide memo no. 240, dated 25.01.2018 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 Sahebganj district.

The Project Authorities has submitted following undertakings affirming that :

- a. Ground water will not be used in mining process.
- b. That the District Survey Report of Sahebganj is prepared by the Competent Authority and shall abide by 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 change is noticed shall be followed in future.
- d. That before removal / felling of existing trees, if any necessary permission shall be obtained from the competent authority and on removal of 01 tree, 10 trees has to be planted and maintained during project period.

During the appraisal the following are specific observation of committee:

- i. Revised Form-I & PFR to be provided with respect to the following :
  - a. To provide all the figures of production & reserves in cubic meter.
  - b. To provide land use plan to include the status at the end of life of mine & at conceptual stage.
  - c. To provide justification of water table level along with drawing to justify non intersection of water table due to mining.
- ii. To make a presentation for appraisal before SEAC after submission of above revised documents.

In line with above mentioned queries, the Project Proponent has submitted revised Form-I & PFR incorporating all the requirements and a presentation was made before SEAC on 24.02.2021.

The committee also recommends the following project specific conditions :

Gabion 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 Demba Stone Deposit of M/s Amit Kumar Gupta & Vinod Yadav, Mouza : Demba, P.S. : Borio, Dist. : Sahibganj, Jharkhand (3.61 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

7. Sahara's "Sunrise Point" Residential & Commercial Project of M/s Samay Construction Pvt. Ltd. (Lakshmi Devi & Others), Village : Dindli, Hari Om Nagar, P.S. : Adityapur, Dist. : Saraikela Kharsawan, Jharhand.

(Proposal No. : SIA/JH/MIS/191344 /2021)

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

This is new project which has been taken for appraisal on 23.02.2021.

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

**Salient Features of the project :**

Item	Details	
Project Name	Sahara's "Sunrise Point" Residential & Commercial Project of M/s Samay Construction Pvt. Ltd.	
Location	Plot No.- (CS) 868, 1570, 1571, 1572 Plot No.- (MSP) 868, 1570, 1571, 1572 Khata No. 79, 101, 44 Village – Dindli, Tehsil – Gamharia, District– Sareikela-Kharsawan State – Jharkhand	
Latitude - Longitude	Latitude	Longitude
	22°47'38.00"N;	86° 9'55.74"E
	22°47'37.25"N;	86° 9'57.38"E
	22°47'36.43"N;	86° 9'56.97"E
	22°47'35.87"N;	86° 9'58.21"E
	22°47'35.72"N;	86° 9'58.15"E
	22°47'33.56"N;	86° 9'56.60"E
	22°47'33.21"N;	86° 9'56.51"E
	22°47'33.75"N;	86° 9'53.92"E
	22°47'33.72"N;	86° 9'53.90"E
	22°47'34.15"N;	86° 9'52.90"E
	22°47'34.69"N;	86° 9'53.12"E
	22°47'34.50"N;	86° 9'53.94"E
	22°47'34.72"N;	86° 9'53.97"E
	22°47'34.88"N;	86° 9'53.88"E
	22°47'35.09"N;	86° 9'53.10"E
	22°47'35.90"N;	86° 9'53.29"E
	22°47'35.86"N;	86° 9'53.73"E
	22°47'37.81"N;	86° 9'54.65"E
	22°47'37.47"N;	86° 9'55.46"E

Area Statement :

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Particulars	Area (in m <sup>2</sup> )
Plot Area	13,666.89 m <sup>2</sup> , or 3.377 Acres
Proposed Ground Coverage	3528.33 m <sup>2</sup> (25.82% of the plot area)
Landscape Green Area	1432.385 m <sup>2</sup> (10.48 % of the plot area)
Paved Area including Open Parking	2635.13 m <sup>2</sup> (19.28 % of the plot area)
Area of internal roads	3799.733 (27.80% of the plot area)
Area of STP & Sewerage	102.68 m <sup>2</sup> (0.75% of the plot area)
Green Area Above Podium	1915.4442 m <sup>2</sup> (14.02% of the plot area)
Other services area	253.1878 m <sup>2</sup> (1.85% of the plot area)
Total Built Up Area	49355.40 m <sup>2</sup> (Including Basement) & 39402.02 m <sup>2</sup> (Excluding Basement)
F.A.R	2.75
Total Parking Area Provided	14329.71 m <sup>2</sup>
Parking provided ECS	502 (Four-Wheeler) 551 (Two Wheeler)
Total no. of Dwelling Units	Residential Flats – 408 units + Commercial – 9 units (Shop-5, Community hall – 1, Gym-1, Club house -1 & Games room – 1)
No. of Floors	(Basement1+Basement2+G+11)
Total Project Cost	62 Crores.
Capital cost for EMP	1.12 Crores

Particular	Residential Block		Commercial Block					
Height	Block-A: 33.9m EWS BLOCK:33.9 M		10.05 m					
Total Built-Up Area & its break - up	RESIDENTIAL BLOCKS: 4 Blocks						COMMERCIAL BLOCK: 1 Block	
	Floor Name	A (BLOCK A): 3 Blocks		B (EWS BLOCK): 1 Block				
		Proposed Built Up Area (Sq.mt.)	Proposed FAR Area (Sq.mt.)	Proposed Built Up Area (Sq.mt.)	Proposed FAR Area (Sq.mt.)	Proposed Built Up Area (Sq.mt.)	Proposed FAR Area (Sq.mt.)	
	Lower Basement Floor	4362.86	87.03	613.83	33.96	-	-	
	Upper Basement Floor	4362.86	87.03	613.83	33.96	-	-	
Lower Ground Floor	-	-	-	-	426.65	419.31		
Upper Ground Floor	-	-	-	-	110.03	102.69		

13/11/2013

	Ground Floor	2645.22	2589.78	522.45	507.85	-	-
	First Floor	2645.22	2512.02	522.45	478.19	426.65	419.31
	Second Floor	2645.22	2512.02	522.45	478.19	426.65	426.65
	Third Floor	2645.22	2512.02	522.45	478.19	-	-
	Fourth Floor	2645.22	2512.02	522.45	478.19	-	-
	Fifth Floor	2645.22	2512.02	522.45	478.19	-	-
	Sixth Floor	2645.22	2512.02	522.45	478.19	-	-
	Seventh Floor	2645.22	2512.02	522.45	478.19	-	-
	Eighth Floor	2645.22	2512.02	522.45	478.19	-	-
	Ninth Floor	2645.22	2512.02	522.45	478.19	-	-
	Tenth Floor	2645.22	2512.02	522.45	478.19	-	-
	Eleventh Floor	2645.22	2512.02	522.45	478.19	-	-
	Terrace Floor	0.00	0.00	0.00	0.00	-	-
	<b>Total:</b>	<b>40468.4</b>	<b>30396.06</b>	<b>7497.06</b>	<b>5835.86</b>	<b>1389.98</b>	<b>1367.96</b>
<b>Number of Block</b>	<b>Name of Building</b>	<b>No. Of Blocks</b>	<b>Type of unit with capacity</b>		<b>Name of Building</b>	<b>No. Of Blocks</b>	<b>Total No. of Units</b>
	BLOCK-A		3	2BHK-156			
	EWS BLOCKS	1	1 BHK-120				
	<b>TOTAL</b>	<b>4</b>	<b>408</b>		<b>TOTAL</b>	<b>1</b>	<b>9</b>
<b>Solid Waste</b>	Total Waste = 1076 Kg/day (~ 1.076 T/day) Bio-Degradable = 635.6 Kg/day or say 0.636 T/day Non-Biodegradable=440.4 Kg/day or say 0.440T/day						
<b>Population</b>	Total No. of Occupancy: 2152						
<b>Parking</b>	<u>Proposed for residential</u> Four Wheeler for occupancy: 448 Nos. Four Wheeler for visitors: - 54 Nos. Total - 502 Nos.  Parking provided for two wheeler - 551 Nos.						
<b>Power Requirement</b>	For construction work - 15 KW The maximum demand load is estimated at 3560 KVA & connected load is estimated at 2477 KW or 1274 KW (in three Phase). The power shall be sourced by TSUISL (Previously JUSCO). DG Set: 600 KVA (1 No. 600 KVA) silent DG Set ; Solar Lighting - 33.5 KW.						
<b>No. of RWH Pits</b>	04						

❖ **Water & Waste Water**

Water Demand	Commercial	Residential	Total	Source
Domestic	9.0 KLD	184.680 KLD	193.680 KLD or say 194 KLD	Fresh Water
Flushing	4.500 KLD	92.340 KLD	96.840 KLD or say 97 KLD	Treated Water
Horticulture	--	--	30.00 KLD	Treated Water
Car washing			15 KLD	Treated Water
Road/General washing	--	--	30 KLD	Treated Water
<b>Total</b>	<b>13.5 KLD</b>	<b>277.02 KLD</b>	<b>366 KLD</b>	

STP: STP of capacity 350 KLD, based on MBBR technology will be installed. Wastewater generated 271 KLD will be processed in the STP and treated water 172 KLD will be reused for various purposes. Excess treated water 45 KLD during dry season and 75 KLD during wet/monsoon season will be discharged to Public sewer after meeting the CPCB Standards.

❖ **Connectivity**

**Road** - Proposed Project Site is well connected to a network of Tata-Kandra Road at distance of 0.62 km from the project site through network of City Roads.

**Railway-** Adityapur Railway Station is 1.25 km away from the project site towards S-S-W direction.

TATA Nagar Junction station is 4.56 km away from the project site towards S-S-E direction.

Gamharia railway station is 6.43 km away from the project site towards W direction.

**Air-** The nearest airport is Sonari Airport which is 2.01 km away from the project site towards N direction.

❖ **Project Surroundings**

Project site is located in Adityapur Municipal Corporation area.

Nearest Airport - Sonari Airport

Nearest Highways - Tata -Kandra Highway-5

Nearest Railway Station - Adityapur Railway Station

Nearest City - Nearest Town: Jamshedpur (Bistupur)- 1.10Km (E)

River Body - Sitarampur Reservoir, Kharkhai River, Subarnarekha River, Sanjai Nadi, Dimna Reservoir etc.

Site Topography - mostly flat with slight undulation

Archaeological Site - None within 10 km Radius

National Parks - None within 10 km Radius

Project / Reserve Forest - Kudada R.F, Nandup P.F, Dalma P.F are situated within 10 km Radius

Seismicity - Zone 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.

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.

Brick bats, wastes of concrete would also be stored for road construction, plinth filling, etc. Surplus C & D waste would be handed over to Municipal Waste Management Facility. E-Waste & Hazardous waste (cans of paints would be collected in separate covered areas and handed over to registered recyclers. Recyclable wastes including bags, packing, pieces of steel rods etc. will be sold to scrap dealers.

### 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

- E-Waste & Hazardous Wastes would be handed over to authorized recyclers.
- Biodegradable Waste - 0.636 T/Day (waste vegetables and foods etc.)
- Non-biodegradable or recyclable- 0.440 Ton/day. (Papers, cartons, thermo-cool, plastics, glass etc.)
- The biodegradable organic wastes will be treated inside the premises by OWC (Organic Waste Converter) having capacity of 1.0 T/day.
- Non-recyclable wastes will be disposed through Govt. approved agency with help local body.
- Total area for storage and segregation of waste = 12.72 M<sup>2</sup>
- Total area requirement for organic waste composting = 42 M<sup>2</sup>

DCF & Field Director, Elephant Project, Jamshedpur vide letter no. 1214, dated 07.12.2020 certified that the Bio-Diversity & Sanctuary is within 10 km from project site and also mentioned the project location is situated outside of Sanctuary (Dalma Wildlife Sanctuary) and its Eco Sensitive Zone.

DFO, Seraikella Division vide letter no. 1169, dated 20.07.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site and PP has also get clarification from DFO, Jamshedpur Division vide letter no. 3327, dated 23.12.2020 certified that the proposed land is non-forest land.

The CO, Gamharia vide letter no. 923, dated 08.09.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

*NOE*  
*K. H.*  
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During the appraisal the following are specific observation of committee:

Following undertaking to be submitted :

- i. That no ground water will be used during the construction phase.
- ii. That green cover will be developed in 15% of project area.
- iii. That a CER budget will be provided.

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

- i. That no ground water will be used during the construction period of this project.
- ii. That we will develop and maintain greenery over an area of 15% of the total plot area.
- iii. That a CER budget of Rs. 1.24 Crores (2% of project cost) has been earmarked for peripheral development. Details of the work carried out in the same will be submitted with the EC compliance reports.

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

- i. All the MSW generated at the site will be suitably segregated, stored & disposed.
- ii. All the common places & streets should incorporate solar lights only.
- iii. Impact of increased traffic load should be suitably addressed.

Based on the presentation made and information provided, the Committee decided that the proposal for Sahara's "Sunrise Point" Residential & Commercial Project of M/s Samay Construction Pvt. Ltd. (Lakshmi Devi & Others), Village : Dindli, Hari Om Nagar, P.S. : Adityapur, Dist. : Saraikela Kharsawan, Jharhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

8. Modernization / Expansion Project of Optimising Production of Cement Grinding Unit of M/s Dalmia Cement (Bharat) Ltd., Village : Kanari, Bokaro Industrial Estate, Tehsil : Chas, Dist. : Bokaro, Jharkhand.

(Proposal No. : SIA/JH/IND/193430 /2021)

Name of the consultant : Presentation was made by the Project Authorities (PAs).

Before consideration of the proposal, the following documents are required to be submitted by the PAs :

- i. Certified compliance report of the previous EC as per OM no. J-11013/6/2010-IA.II(part), dated 07.09.2017 of MoEF&CC, Govt. of India.
- ii. No increase in pollution load certificate as per S.O. no. 3518(E), dated 23.11.2016 & S.O. no. 236 (E), dated 16.01.2020 of MoEF&CC, Govt. of India.

**The committee decided to visit the site before the project is taken up for consideration.**

Consideration of Proposals

**A. Matter referred by SEIAA**

1. Stone Mine Project of M/s Radha Krishna Jaiswal at Vill.- Leungdih, Chandil Saraikela-Kharsawan (23.50 Acre).

The project is recommended for delisting as per letter dated 24.02.2021 of Project Authorities.

**B. Consideration of Proposals**

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

Project Authorities vide letter dated 24.02.2021 has requested to defer the consideration of proposal in next SEAC meeting on medical grounds. The request has been accepted by the SEAC.

2. Khanudih Dagdho Balu Ghat of Shri Raj Kumar Mahto, Vill. : Khanudih Dagdha, Tehsil : Baghmara, Dist.: Dhanbad, (21.04 Ha).

**Observation of the committee :**

As there has been no response from the project authorities continuously, the committee is of the view that the project authorities are no longer interested in the project and therefore, the committee has taken a decision to recommend delisting of the project proposal.

3. Bhendra Sand Mining Project on Jamunia River of Sri Pintu Kumar, Vill. : Bhendra, Anchal : Nawadih, Dist. : Bokaro (9.71 Ha).

**Observation of the committee :**

As there has been no response from the project authorities continuously, the committee is of the view that the project authorities are no longer interested in the project and therefore, the committee has taken a decision to recommend delisting of the project proposal.

4. Dumarkunda Balu Ghat over Barakar River of M/s Shankar Coal Transport Agency, Village : Dumarkunda, Anchal : Nirsa, Dist. : Dhanbad, Jharkhand (10.534 Ha).

(Proposal No. : SIA/JH/MIN/21439 /2017).

Name of the consultant : Eco Chem Sales & Services, Surat.

This is a new project which has been taken for appraisal on 24.02.2021.

In the absence of valid Letter of Intent (LoI), the committee did not consider the project for appraisal. The project will be considered as per policy in-force after the valid LoI is submitted by the Project Authorities.

The auto generated Terms of Reference (ToR) dated 17.02.2021 are also withdrawn.

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5. Chirkunda Balu Ghat over Barakar River of Shri Jagdish Tiwary, Village : Chirkunda, Anchal : Nirsa, Dist. : Dhanbad, Jharkhand (19.473 Ha)

(Proposal No. : SIA/JH/MIN/21440 /2017).

Name of the consultant : Eco Chem Sales & Services, Surat.

This is a new project which has been taken for appraisal on 24.02.2021.

In the absence of valid Letter of Intent (LoI), the committee did not consider the project for appraisal. The project will be considered as per policy in-force after the valid LoI is submitted by the Project Authorities.

The auto generated Terms of Reference (ToR) dated 17.02.2021 are also withdrawn.

6. Mosabani Copper Ore Concentration Plant of M/s Hindustan Copper Ltd at Vill. – Badia, Mosabani, Dist.: East Singhbhum.

Earlier the proposal was presented in SEAC on 24-26.11.2020 in which requisite documents were sought are under –

- i. The legal status regarding forest land in report of CO and DFO.
- ii. The certified compliance of CTO conditions from RO, JSPCB.
- iii. PP shall comply by putting HDPE liner at the base of pond to make it leak proof.
- iv. Details report regarding legal status of Surda Mines which is the source of raw material of the proposed project.

The Project Authorities have not yet submitted above required documents, hence the project will be considered after all the required documents are submitted to SEAC.

7. 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)

Name of the consultant : Presentation was made by the Project Authorities (PAs).

This is a new project which has been taken for appraisal on 24.02.2021.

This project has been appraised by previous SEAC in 81<sup>st</sup> meeting held on 23-25.10.2019.

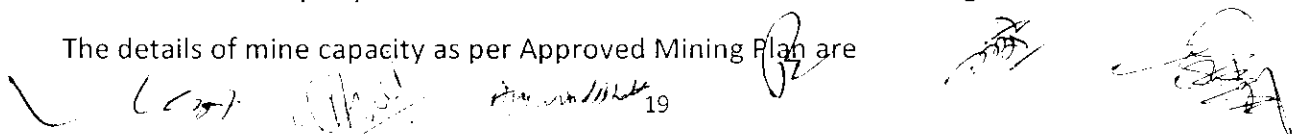
Thereafter, a ToR was granted by SEIAA vide letter no. 634, dated 04.11.2019.

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 capital cost Rs 8.69 Lakh, recurring cost Rs. 6.73 Lakh per year has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are



Proved Mineable Reserve : 6,07,899.92 cum

Probable Mineable Reserve : 6,44,370.18 cum

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

Year	Production of stone (cum)
1 <sup>st</sup>	1,25,241.63
2 <sup>nd</sup>	1,25,167.13
3 <sup>rd</sup>	1,25,243.02
4 <sup>th</sup>	1,25,234.60
5 <sup>th</sup>	1,25,239.96

The proposed production capacity is 1,25,243.02 cum per annum. 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.

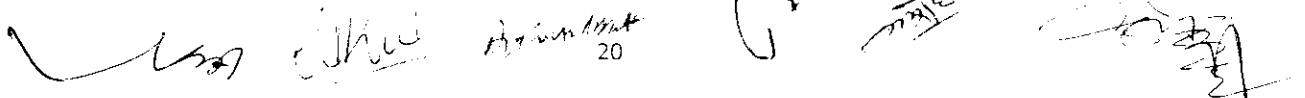
The CO, Dulmi (Ramgarh) vide letter no. 295, dated 26.06.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

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.

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

- i. Certified biological study report to be provided as ToR no. 19.
- ii. Distance from Ramgarh severely polluted area along with necessary map to be provided.
- iii. 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 be addressed suitably.

In line with above mentioned queries, the Project Proponent has submitted all the required documents.

The Project Authorities presented the same before SEAC. The committee found the same in order.

The Project Authorities has also submitted following undertakings affirming that :

- a. Ground water will not be used in mining process.
- b. That the District Survey Report of Ramgarh is prepared by the Competent Authority and shall abide by 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 change is noticed shall be followed in future.

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

Gabion 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 Dulmi Stone Mining Project of M/s Elite Power Project and Construction Pvt. Ltd., Village : Siru, Tehsil : Dulmi, District : Ramgarh, Jharkhand. (9.50 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

8. 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)

The Project Authorities vide letter dated 24.02.2021 requested the committee for change of consultant i.e. Cognizance Research India Pvt. Ltd.. The same was accepted by the committee.

This is a Stone Mining Project with an area of 0.49 Ha [Khata no- 35, Plot No. 198 & 199]. The latitude and longitude of the project site is 23°42'30.78"N to 23°42'27.83"N and Longitude

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85°20'45.62"E to 85°20'49.28"E. The nearest railway station is Patraru Railway station, approx. 6.5 km toward SW direction and nearest airport is Ranchi Airport, approx. 43.5 km in South Direction. Total water requirement is 4.5 KLD. Water will be taken from nearby village.

The indicated project cost is Rs 15 Lakh and a provision of capital cost Rs 5.0 Lakh, recurring cost Rs. 3.80 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 40,870.9 cum

Probable Mineable Reserve : 24,206 cum

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

Year	Production of stone (Cum)
1 <sup>st</sup>	6423.90
2 <sup>nd</sup>	6423.90
3 <sup>rd</sup>	6423.90
4 <sup>th</sup>	6423.90
5 <sup>th</sup>	6423.90

The proposed production capacity is 6423.90 cum per annum. Life of Mine is 10 years.

DFO, wildlife, Hazaribag vide letter no. 1675, dated 06.09.19 certified that the National Park, Bio-Diversity, Sanctuary & ESZ is not within 10 km from proposed project site.

DFO, Ramgarh vide letter no. 1965, dated 03.08.2018 certified that the distance of notified forest land is 320 m from proposed project site.

The CO, Dadi (Hazaribag) vide letter no. 734, dated 15.10.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.

DMO, Hazaribag vide memo no. 1134, dated 07.12.2019 certified that no other lease is exists within 500 m radius from proposed project site.

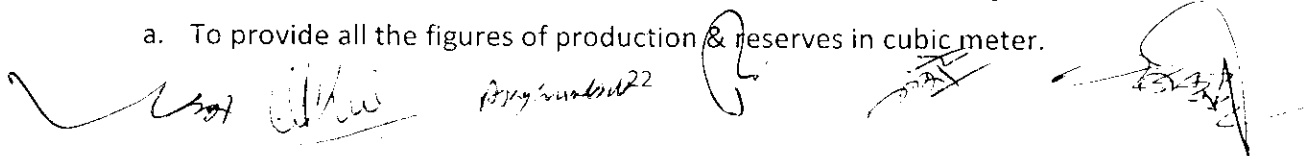
This project site is mentioned in District Survey Report (DSR) of Hazaribag district.

The Project Authorities has submitted following undertakings affirming that :

- Ground water will not be used in mining process.
- That the District Survey Report of Hazaribag is prepared by the Competent Authority and shall abide by any directives issued by any court of law in this regard in future.
- That the contiguous / cluster area report issued by the Department of Mines shall be undertaken if any change is noticed shall be followed in future.

During the appraisal the following are specific observation of committee:

- Revised Form-I & PFR to be provided with respect to the following :
  - To provide all the figures of production & reserves in cubic meter.



b. Name of the consultant to be updated in the Form-I, PFR & Presentation.

In line with above mentioned queries, the Project Proponent has submitted revised Form-I & PFR incorporating all the requirements and a presentation was made before SEAC on 24.02.2021.

The committee also recommends the following project specific conditions :

Gabion 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 Kurkutta Stone Deposit of M/s Bhole Shankar Stone Works, Vill. : Kurkutta, Taluka : Giddi, Dist. : Hazaribagh, Jharkhand (0.49 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - II.

9. Pahartoli Sand Mining Project of Sri Anil Kumar Gupta at Vill. : Pahartoli, Thana : Basia, Dist. : Gumla (5.66 Ha).
10. Simariya Stone Deposit of M/s Pawanputra Stone Works, Vill. : Simariya, Thana : Jirwabari, Dist. : Sahibganj (6.07 Ha) (Proposal No. : SIA/JH/MIN/61685/2017)
11. Moradih, Loyadih & Polkera Balu Ghat of M/s S.G. Pro Ltd (Sri Ajay Singh) at Vill.- Moradih, Loyadih & Polkera, Dhanbad (20.39 Ha). (Proposal No. : SIA/JH/MIN/62454 /2017)
12. Pondra Bejra Balu Ghat on Barakar River of M/s Mihijam Wine Traders (Prop: Sri Shankar Ghosh) at Vill.- Pondra Bejra, Anchal – Dhanbad, Dist.- Dhanbad (14.40 Ha). (Proposal No. : SIA/JH/MIN/68159/2017)

The above projects (Sl. no. 9 to 12) are pending for consideration due to non submission of requisite documents. The committee has taken a decision to allow a maximum of 02 months to submit the required documents. Failing which the projects will be recommended for delisting without any further reference to the Project Authorities.

Day 3 : February 25, 2021 [Thursday]

- A. Email dated 16.02.2021 of Project Authority for withdrawal of the proposal of Balkudra OCP (1.0 MTPA Normative & 1.3 MTPA Peak) of M/s Central Coalfield Ltd at Vill. : Balkudra, Dist. : Ramgarh (149.50 Ha).

The Project Authorities vide letter no. 146 A dated 11.02.2021 & followed by E-mail dated 16.02.2021 has requested for withdrawal of the project.

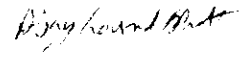
Hence, the project is recommended for delisting.

The meeting concluded with thanks to all present.



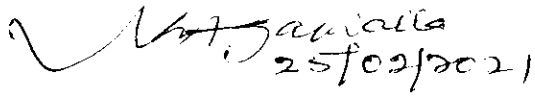
(Dr. Raju Kumar)

Member



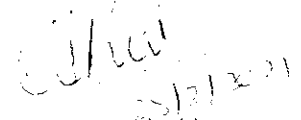
(Dr. Ajay Govind Bhatt)

Member



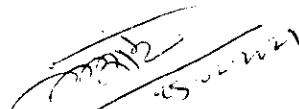
(Niranjana Lal Agarwalla)

Member



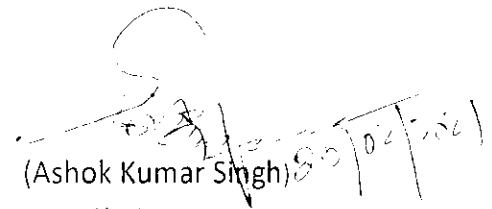
(Dr. Kirti Avishek)

Member



(Ashok Kumar Dubey)

Secretary



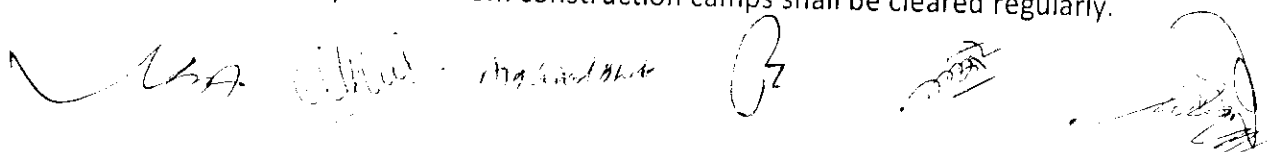
(Ashok Kumar Singh)

Chairman



**I. Statutory Compliance**

- i. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc as per National Building Code including protection measures from lightening etc.
- iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- vi. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- vii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after completion of the project.
- xii. Provision of drinking water, waste water disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problems. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.



- xiii. All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.
- xiv. All vehicles/equipment deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peaking hours.
- xv. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xvi. Water during construction phase should be preferred from Municipal supply.
- xvii. Unskilled construction labourers shall be recruited from the local areas.
- xviii. Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
- xix. Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" issued by Ministry of Environment and Forests, Government of India shall be adopted.
- xx. Rest room facilities shall be provided for service population.
- xxi. Water body falling within premises (if any) shall not be lined or no embankment shall be cemented. The water bodies, if any, shall be kept in natural conditions without disturbing the ecological habitat.
- xxii. Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standards and specifications of all construction work from concerned authority.
- xxiii. Project proponent shall install Wind Augmentation and Air Purifying Unit (4 Units at one location in Ranchi) on Pilot basis to deal with particulate matter pollution.

## II. Air quality monitoring and preservation

- i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.

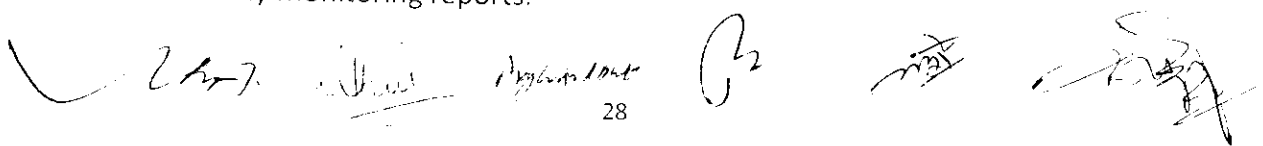
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking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

### III. Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.

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

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

#### IV. Noise monitoring and prevention

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

#### V. Energy Conservation measures

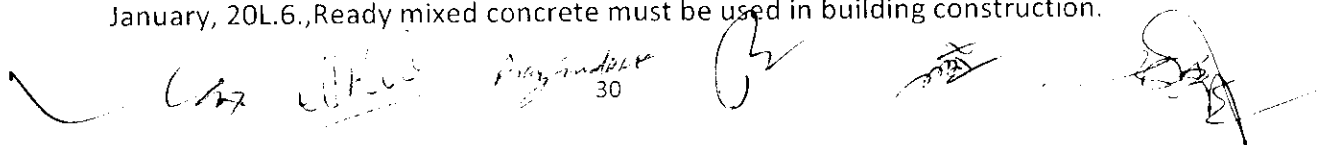
- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be

incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

- iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

## VI. Waste Management

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25<sup>th</sup> January, 20L.6., Ready mixed concrete must be used in building construction.



- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

#### VII. Green Cover

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

#### VIII. Transport

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points.
  - d. Parking norms as per local regulation
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other

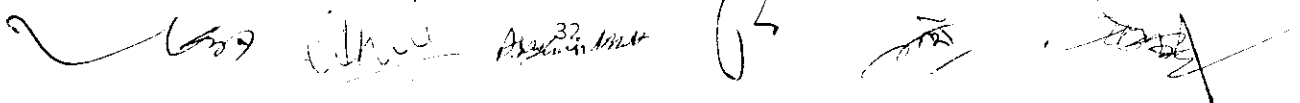
agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

#### IX. Human Health Issues

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

#### X. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.





## XI. Miscellaneous

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry / SEIAA / SEAC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry / SEIAA / SEAC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned

Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi / CPCB / SEIAA.

- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Byg/...

**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.

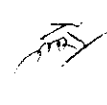
## II. Air quality monitoring and preservation

- 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, NO<sub>2</sub>; CO and SO<sub>2</sub> etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCUI, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- ii. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from ail sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance: Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC/ Central Pollution Control Board.

## III. Water quality monitoring and preservation

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- 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.
- 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

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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 to Short Term Permit (STP), Query license or any other name.
- ii. The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
  - iii. The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office.

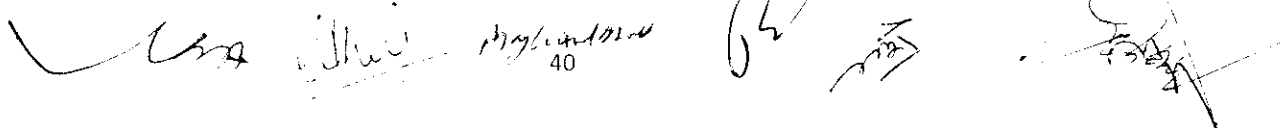
#### VI. Land reclamation

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

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## VIII. Green Belt

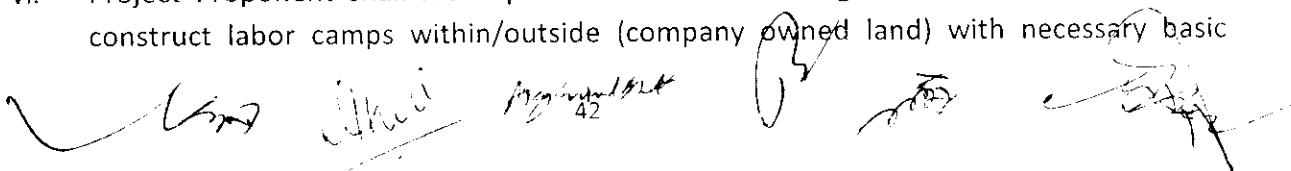
- i. The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward 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.
- 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

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- 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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