

MINUTES OF THE 81ST MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 23RD, 24TH & 25TH OCTOBER, 2019

The 81st meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 23rd, 24th & 25th October, 2019 under the Chairmanship of Sh. K.P. Bhawsinka in the Conference Room at SEAC, Ranchi.

The following members were present :

1. Sri K.P. Bhawsinka - Chairman
2. Dr. B.K. Tewary - Member
3. Dr. R. N. Singh - Member
4. Sri Y.K. Singh - Member
5. Sri S.P. Srivastava - Member
6. Dr. V.P. Sinha - Member
7. Dr. R. V. Singh - Member (Present on 23-24.10.19)
8. Sri Om Prakash - Member Secretary

M.S. Bhagwat & Sri U.P. Singh, Member, SEAC could not attend the meeting due to personal reason.

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 14th 15th & 16th October, 2019. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite informations / clarifications in SEAC earlier meeting, 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 : October 23, 2019 [Wednesday]

Consideration of Proposals

1. **Salbona Stone Mine of M/s Supreme Stone Mine, Vill. : Salbona, P.S. & Tehsil :Shikari Para, Dist. : Dumka (1.42 Ha).**

(Proposal No. : SIA/JH/MIN/41448/2019)

This is a Stone Mining Project with an area of 1.42 Ha [J.B. No. 27, 2, 38, Plot No. 290, 291, 292]. The latitude and longitude of the project site is 24° 10' 42.8" N to 24° 10' 48.2" N and 87° 34' 10.2" E to 87° 34' 16.8" E. The nearest railway station is Pinargaria a distance of 8 km and the nearest airport is Ranchi at a distance of 250 km. Total water requirement is about 6 KLD (Drinking & domestic uses : 1 KLD, Dust Suppression : 3 KLD & Green Belt : 2 KLD) . The drinking water will be available from nearby village by tractor tank manually by labors at the site.

The indicated project cost is Rs 22.80 Lakh and a provision of Rs 8.00 Lakh has been indicated for Environment management.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 3,01,860 tonne

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Probable Mineable Reserve : 3915 tonne

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

1 st Year	:	30,588 tonne
2 nd Year	:	30,553 tonne
3 rd Year	:	30,567 tonne
4 th Year	:	30,561 tonne
5 th Year	:	30,584 tonne

The daily production as per Form I is 102 tonne.

DFO, Wildlife Hazaribagh vide letter no. 1641, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 90605 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Dumka Division vide letter no. 3120, dated 14.09.19 certified that the minimum distance is 250 m.

The CO, Shikaripara vide letter no. 931, dated - 27.09.19 has mentioned that the proposed site is not recorded as Jangal Jhari in Khatiyani & Register II.

DMO, Dumka vide memo no. 597, dated 01.06.19 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Dumka District.

Earlier the proposal was presented in SEAC on 26-27.09.2019 in which requisite documents /certificate were sought are under –

- i. *In the CO report submitted an anomaly has been detected. The CO has counter signed the filled up format submitted by the PP with signature. This is erroneous and requires submission of a fresh CO certificate.*
- ii. *Latitude & Longitude not mentioned in Form-I & Pre-Feasibility Report – revised Form-I & Pre-Feasibility Report.*
- iii. *Enhancement of CSR cost.*

The above mentioned requisite documents / certificate have been submitted by the PP.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Salbona Stone Mine of M/s Supreme Stone Mine, Vill. : Salbona, P.S. & Tehsil :Shikari Para, Dist. : Dumka (1.42 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

2. 500 Bedded Govt. Hospital of M/s Jharkhand State Building Construction Corporation Ltd., Vill : Pokhriha Khurd, Dist : Palamau

(Proposal No. : SIA/JH/NCP/74855/2018)

Taking into consideration the growing medical need of the people of the state, the Government of Jharkhand has planned to construct a 500 bedded Govt. As per the guidelines issued by MoEF&CC only the component of hospital building is sought for

Environment Clearance. The case was presented by Environment consultant M/s Oceao-Enviro Management Solutions India Pvt. Ltd (QCI certificate no. NABET/EIA/1821/IA 0033 Valid till 23.01.2021). Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000sq m and development area is less than 50 ha.

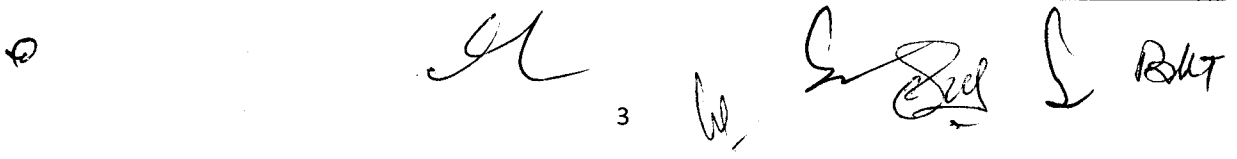
The Geographical coordinates of the total area of the medical college and hospital are as follows:

Hospital within the medical college:

S. No	Pillar	LONGITUDE	LATITUDE
1	A	84° 6' 44.74" E	24° 2' 27.81" N
2	B	84° 6' 44.69" E	24° 2' 24.50" N
3	C	84° 6' 46.81" E	24° 2' 24.13" N
4	D	84° 6' 47.08" E	24° 2' 28.11" N

The Salient Features of the total Medical collage with Hospital component is as follows:

S. No	Block No.	Particulars	Total (m ²)
1.	-	Total plot area	98621.85 (24.4 acre)
2.	-	Permissible Ground Coverage (@50% of Total Plot area)	49310.92
3.	-	Total Proposed Ground Coverage (@17.75% of Total plot area)	17510.0
4.	-	Proposed Ground Coverage for Hospital Building (@9.528% of Total plot area)	9297.0
5.	-	Permissible FAR @2.5	246554.6
6.	-	Proposed FAR @1.428	140881.0
7.	G+6	Proposed FAR for Hospital Building @0.5922	58408
8.	G+1	Proposed 500 Capacity auditorium	2516
9.	S+8	Proposed Type 3 Residence	7676
10.	S+5	Proposed Resident Doctors Hostel	4694
11.	G+5	Proposed Intern's Hostel (Male)	2421
12.	G+5	Proposed Intern's Hostel (Female)	2421



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13.	G+1	Proposed Type 6 (Dean Residence)	473
14.	G+1	Proposed Type 6 (MS Residence)	473
15.	G+6	Proposed Nurse Hostel	4790
16.	G+3	Proposed Guest Hostel	1768
17.	G+1	Proposed Student Recreational Block	650
18.	G+1	Proposed ESS	1773
19.	G	Proposed Guard room	14.4
20.	-	Proposed STP &ETP	383
21.	G	Bio Waste	250
22.	G+4	Existing Medical College	24794
23.	G+8	Existing Girls Hostel	8935.0
24.	G+8	Existing Boys Hostel	8935.0
25.	S+8	Existing Type – 4 (Block 1)	4952.0
26.	S+7	Existing Type – 4 (Block 2)	4952.0
27.	-	Proposed Stilt Parking area for Hospital	2268
28.	-	Total Built Up Area (BUA) for Hospital (7+18+19+20+21+27)	63096.40
29.	-	Open Area (Total Plot Area – Ground Coverage)	72096.0
30.	-	Proposed Landscape Area (22.08 % of Open Area)	15290.0
31.		Height of the Hospital Building (m) (G+6)	34.0

DETAILS OF THE HOSPITAL COMPONENT:

S. No.	Description	Particulars	Unit
GENERAL			
1.	Total Plot Area	98621.85	SQM
2.	Ground Coverage of Hospital	9297.0	SQM

3.	Proposed Built Up Area of Hospital component	63096.40	SQM
4.	Building Blocks	Hospital Building, ESS & UGT, Guard room, STP & ETP.	
5.	Max Height of Building up to terrace level	34	M
6.	Max No of Floors for hospital building only	G+6	NOS
WATER REQUIREMENT FOR HOSPITAL COMPONENT			
7.	Total fresh water requirement	195	KLD
8.	Total sewerage generation	241	KLD
9.	Proposed ETP Capacity	50	KLD
10.	Proposed STP Capacity (SBR Type)	300	KLD
PARKING FOR HOSPITAL COMPONENT			
11.	Required Parking for Hospital Building as per Jharkhand Bye Laws	34	ECS
12.	Total Proposed parking	136	ECS
GREEN AREA FOR TOTAL PROJECT SITE			
13.	Proposed Green Area 15.50 % of total plot area	15290.0	SQM
WASTE GENERATION FOR HOSPITAL COMPONENT			
14.	Total Solid waste generated	940.76	Kg/day
15.	Biomedical Waste	25 % of Total Waste=235.25	Kg/day
POWER FOR HOSPITAL COMPONENT			
16.	Total Power Requirement	2921.8	KW
17.	DG set backup	1500*2=3000	KVA
RAIN WATER HARVESTING FOR HOSPITAL COMPONENT			
18.	Rain water Harvesting Pits (in total plot area)	21	NOS

POPULATION DETAILS FOR HOSPITAL COMPONENT

S. No.	Particulars	No. of beds	PPU/no. of person/m ²	Total Population
1.	Patients	500	1- person per 1 bed	500
2.	Attendant	500	1-person per 1bed	500
3.	Out Patient Department (OPD)			2000
4.	Staff (Doctor+ Nurse + Helper)			500
5.	Visitors (20% of Hospital Population i.e. 500)			100
Total Population				3600

DAILY WATER DEMAND FOR HOSPITAL COMPONENT:

S. No	Description	Area (sq. mtr)	No. of Beds / Occupan	Rate of water demand	Water Requireme nt for	Rate of water demand	Water Requireme nt for	Total Water Requireme
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			cy	for domestic (@lpcd)	Domestic (KLD)	for Flushing (@lpcd)	Flushing (KLD)	nt Domestic + Flushing (KLD)	
A. Hospital Building									
1	Patients + Attendant + Staff + visitors		500	300	150	150	75	225	
2	Out Patient Department (OPD)		2000	10	20	5	10	30	
3	Laundry + Kitchen		500	50	25	0	0	25	
Total Domestic Water Requirement								280.0	
B.	Horticulture	19403.330	3 liter for 1 sq. mtr						58.2 say 58
C.	DG Set	3000 KVA (2*1500 KVA)	0.9*KVA* 8 Hours						21.6
D.	HVAC	430 (TR)	10*Capacity* 12 hours						51.6
Total Water Requirement								411.2	
								Say 411 KLD	

Waste Water Management:

- The STP proposed for the total project is of 550 KLD of SBR technology (developed module wise).
- The ETP proposed for treatment for the effluents will be of capacity 50 KLD.
- The requirement of STP capacity for the Hospital component only is 300 KLD out of 550 KLD.
- The wastewater estimated for the hospital component is 241 KLD which will be treated in STP.
- There will be a provision of separate and dedicated lines of plumbing from OT, Labs and other photogenic sources that are high in COD, which will be diverted to ETP of capacity 50 KLD designed to meet the discharge standards of landscaping and horticulture.

Brief description of Effluent Treatment Plant (ETP) for proposed Hospital (50 KLD) :

Effluent Treatment Plant: The effluent from different laboratories, OT and hospital will be treated in ETP having following units:

1. Primary unit

The primary unit consists of screening and equalization tank. The raw hospital/lab. effluent will pass through the bar screen chamber. The Bar Screen has narrow slits that capture the material and further the effluent pass into the equalization tank where prechlorination and aeration will be done.

- **Secondary treatment**

In secondary treatment i.e. Physico-chemical treatment the effluent from equalisation tank will come into the Reaction tank where Fenton's reagent will be mixed at low pH which work as an high oxidizing chemical and oxidize all the possible bacteria and virus and infectious units. Deep oxidation of bacteria will take place for 10-15 min, after that Neutralization process will be carried out and followed by Polymer dosing for better flocculation and coagulation.

Tube settler-The effluent will be settled in the tube settler and sludge will be settled down here and supernatant will be collected from the top to intermediate storage tank

Disinfection unit- The oxylite dosing will be carried out in the intermediate storage tank to disinfect .Rare possible bacteria after deep oxidation in the reaction tank. The process does not generate any carcinogenic chloro-organic compounds.

- **Tertiary treatment-**

MGF-Multi grade filter will remove the possible particle in the treated effluent which pass through UV system before using for horticulture purpose or public sewerage system (Treated effluent 50 KLD max.).

Sludge-The ETP sludge will be handled in the Filter press and dispose off as per the provision of Hazardous Solid waste management rules.

Solid Waste Management:

S. No.	Category	Kg per capita per day	Waste generated (kg/day)
1	Patient + Attendant	1000 @ 0.5 kg/day	500
2	Staff	500 @ 0.25 kg / day	125
3	Visitor +OPD	2100@ 0.15 kg /day	315
4	Landscape waste (15290.0 m ²)	3.8 @ 0.2 kg/acres	0.76
Total Solid Waste Generated			940.76 kg/day Say 941 kg/day

SOLID WASTE GENERATION (Component Wise breakup of total solid waste generated)

S. No	Waste	Quantity Kg/day	Percentage
1	Biomedical waste	235.25	25
Rest remaining MSW 705.75 kg/day			
2	Bio degradable waste -	352.875	50

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3	Non-bio degradable	282.30	40
4	Other inert waste	63.51	9
5	E-waste	7.05	1

MANAGEMENT:

1. Municipal Solid waste : Organic wastes shall be collected at site marked and disposed off through authorized recyclers
2. Hazardous waste: Waste oil will be disposed off through authorized recyclers.
3. Biomedical waste: Waste will be disposed off through BMW facility.
4. Construction Waste: will be used on site as filler material for covering open spaces such as internal roads and pavements remaining construction waste if any will be sent to an approved dumping site.

RAIN WATER HARVESTING FOR THE HOSPITAL COMPONENT :

S.NO.	DESCRIPTION	DETAILS	UNIT
A	Terraces areas - Volume of runoff		
1.	AREA	27890	SQM
		2.789	HECTARE
2.	RAINFALL (One Hour)	25	mm/Hr
3.	COEFFICIENT	0.8	
4.	DISCHARGE AS PER RAINFALL INTENSITY (Q)	557.80	CUM/Hr
B	Paved, Road, Parking, Private terrace areas - Volume of runoff		
1.	AREA	60172.54	SQM
		6.017254	HECTARE
2.	RAINFALL (One Hour)	25	mm/Hr
3.	COEFFICIENT	0.7	
4.	DISCHARGE AS PER RAINFALL INTENSITY (Q)	1053.02	CUM/Hr
C	Landscaped & green areas - volume of runoff		
1.	AREA	15290	SQM
		1.529	HECTARE
2.	RAINFALL (One Hour)	25	mm/Hr
3.	COEFFICIENT	0.2	
4.	DISCHARGE AS PER RAINFALL INTENSITY (Q)	76.45	CUM/Hr
D	Total for all areas - volume of runoff & Calculation for RWH		
1.	Total Volume of runoff generated from the proposed campus (A+B+C)	1687.27	m ³
2.	Percolation of Rain Water through harvesting pit 10% of total discharge	168.73	m ³
3.	Balance Volume of rainwater discharge capacity.	1518.54	m ³

4.	Size of the Rain Water Harvesting Pit Structure for 60 minute storage (Dia.of Pit-4.5m & effective depth-4.5m)	15018.54	m ³
5.	Volume of a single circular recharge pit	71.53	m ³
6.	Hence No. of pits required	21	Nos

Energy Saving Measures:

- Use of local building material to reduce pollution & transportation energy.
- All the pumps shall have minimum efficiency as per ECBC norms
- Energy efficient building envelope-use of fly ash bricks/AAC blocks for external walls
- Insulation to roof.
- Programmable switching arrangement for external lighting to prevent wastage of energy.
- Energy efficient lighting fixture LED lamps to be provided in common areas.
- Adequate solar panels will be installed to conserve energy.
- ECBC norms shall be complied.

DFO, Medininagar Division vide letter no. 3366, dated 31.08.19 certified that the minimum distance is 250 m.

Dy. Director, Palamau Tiger Project vide letter no. 2076, dated 23.09.2019 certified that Eco Sensitive Zone is within 10 km from proposed project site and National Park / Bio-Diversity is not within 10 km.

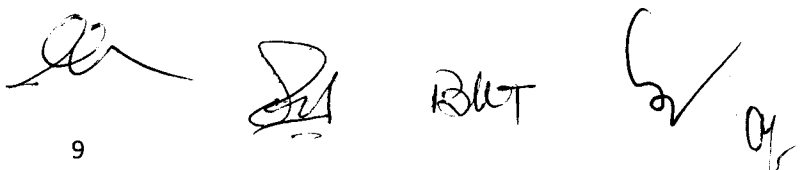
The CO, Sadar, Medininagar vide letter no. 643, dated 05.08.19 has mentioned the plot no. of the project is recorded as “**Jangle Sakhu**” in the R. S. Khatiyani & Register II.

PP and the consultant presented the project of the hospital to be setup at Palamau, Jharkhand only explained that the institutions & hostels of academic area has been constructed and academic activity is in place. This application for the EC of the hospital & allied activities which is as per the 8(a) category of EIA notification, 2006. SEAC discussed the whole presentation and identified a number of lacunae where in clarification requires to be submitted.

Following documents/clarifications requires to be submitted –

- (i) The site comprises of the forest land – The PP needs to submit the Forest Clearance application status. As per information, DFO has not received the hard copy of uploaded application form – please explain.
- (ii) In the Form-I the competent PP should signature.
- (iii) Status of Building plan approval.
- (iv) A nalla flows very close to the site. To submit the rainfall. Catchment storm water evacuation system. HFL & other issues related to the site.
- (v) The movement pattern of the patients and corresponding ambulance & other facilities be provided.
- (vi) The traffic density and parking facilities – A detailed study report.

②



- (vii) The solid & liquid water system is for hospital only. Please provide the same for institution & hostels separately & cumulative effect of the same & management strategies.
- (viii) Air quality in the present case is high for PM₁₀ PM_{2.5} but low for SO₂&NO_x. Please explain the reason & the management strategy on establishment of the hospital.
- (ix) The maps are not shown in proper co-ordinates – submit the corrected maps.
- (x) Key plan showing surrounding area of the proposed development.
- (xi) Co letter & DFO letter – Area of land differs in both for the same area as the same area at the same time should match the other documents application. Please clarify.
- (xii) Provision of infectious & hazardous waste disposal system.
- (xiii) Site section map is showing finish terrace level with the respect to natural ground level.
- (xiv) All area statement of land, road, other infrastructures etc, related to the Buildings for which EC has been sought, to be plotted on a drawing and the proposal be corrected to mention the related figures/features.
- (xv) All buildings & infrastructures for the project for which EC has been sought shall be superimposed on the contour plan (showing the finished terrace level) in A-0 size & a few section (up to 1st Floor level of Buildings only) showing road, boundary wall, buildings, rain water pits, underground structures/foundation, gate etc. & Cut & fill section shall be provided.
- (xvi) Xerox copy of drawing submitted by PP to municipal corporation for approval to be provided to verify the details of plot area and built up areas etc of buildings for which EC has been sought.
- (xvii) All Water bodies/dams/embankments & other existing physical features, barriers to drainage like highways & roads available within 500 km all around the project with levels, contour & details to be provided.
- (xviii) A natural stream/nallah or spillway of Dam is understood to be flowing at about 500 m in NE direction. During monsoon, the submergence of ground beyond nallah / stream width due to flash flood taking place due to catchment area and wide variation of grounds levels (as could be seen from the contour plan) might take place. High flood levels of the natural stream/maximum water level in the stream or spillway to be provided and substantiated with documentary proof of WRD, Govt. of Jharkhand / other recognised body to appraise the project area.
- (xix) Layout of Bore holes plotted on a drawing having co-ordinate system indicating the existing RL of BHs, their co-ordinates superimposed on Contour plan to be provided to verify the geotechnical report. Highest water table as observed in Bore Holes to be provided.
- (xx) All drawings must bear proper coordinate system.
- (xxi) Road widths in respect of various functional requirements of Hospital OPDs, movement of vehicles, for parking etc. are not adequate.
- (xxii) Setbacks proposed for buildings are not adequate. Latest revision of Municipal byelaws in this regard to be provided & revisions in the drawing as required as per the byelaws to be made.

- (xxiii) Quantification of Earth work & specific plan of disposal of excess excavated earth / procurement of borrowed earth as the case may be, indicating borrow area to be provided.
- (xxiv) Ground floor plan with disposition of various rooms / facilities to be provided.
- (xxv) For Rain Water harvesting pits – 60 minutes storage shall be considered.

On submission of the proper replies & documents, the committee will examine further.

3. Kashidih Stone Deposit of M/s Raja Enterprises, Mouza : Kashidih, Thana : Chandil, Dist. : Saraikela – Kharsawan (2.41 Ha).

(Proposal No. : SIA/JH/MIN/40055/2019)

This is a Stone Mining Project with an area of 2.41 Ha [Plot no. 101 (P), 102 (P), Khata no. 1, Plot no. 130, 131, Khata no. 123, Plot no. 132, 133, 134, 135 & 136, Khata no. 29]. The latitude and longitude of the project site is 22° 58' 32.45" N to 22° 58' 38.86" N and 85° 55' 37.30" E to 85° 55' 44.52" E. The nearest railway station is Chandila distance of 15 km and nearest airport is Ranchi a distance of 72 km. Total water requirement is about 8.0KLD will be met by private water tankers or existing dug wells / bore wells.

The indicated project cost is Rs 58.00 Lakh, a provision of Rs 10.00 Lakh has been indicated for Environment management and CER is 3.10 Lakh.

The details of mine capacity as per Approved Mining Plan are

Proved Mineral Reserve	:	7,03,561 tonne
Probable Mineral Reserve	:	29,565 tonne

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

1 st Year	:	90,056 tonne
2 nd Year	:	90,072 tonne
3 rd Year	:	90,040 tonne
4 th Year	:	90,069 tonne
5 th Year	:	90,045 tonne

The daily production as per Mine Plan is 300 tonne.

DCF & FD, Elephant Project, Jamshedpur vide letter dated 29.06.19 certified that the project site is not within 10 km from National Park, Bio-Diversity & Sanctuary and not situated in any ESZ.

DFO, Saraikela Division vide letter no. 361, dated 29.06.19 certified that the distance of notified forest is 251 m from proposed project site.

The CO, Chandil vide letter no. 969, dated - 04.06.19 has mentioned that the proposed site is not recorded as Jangal Jhari in R.S Khatiyani & Register II.

DMO, Saraikela vide letter no. 407, dated 26.06.19 certified that any other lease is not within 500 m radius from proposed project site.

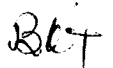
Earlier the proposal was presented in SEAC on 18-20.09.2019 in which requisite documents /certificate were sought are under –

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The DSR of the district available in the SEIAA / SEAC office, is not encompassing the project site.

Thus, the M.S, SEAC will get clarification from the DC, Saraikela - Kharsawan on this issue. Once the reply is received, SEAC would consider. In the meantime PP was advised to collect the above information from their level also.

The DC, Saraikela - Kharsawan (letter no. 662, dated 10.10.19) requesting Member Secretary, SEAC to incorporate the details of the project in DSR.

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 **Kashidih Stone Deposit of M/s Raja Enterprises, Mouza : Kashidih, Thana : Chandil, Dist. : Saraikela – Kharsawan (2.41 Ha)** be recommended for consideration of SEIAA for grant of EC, in the light of DC, Saraikela-Kharsawan aforesaid letter dated 10.10.19. The various conditions for grant of EC is enclosed as **Annexure - I**.

4. Stone Mining for M/s Jai Maa Enterprises Crusher & Quarry (Prop : Sri Om Prakash Singh) at Vill : Pailadih, P.O. : Alkusha, P.S. : Chas, Dist : Bokaro (1.214 Ha).

(Proposal No. : SIA/JH/MIN/34002/2019)

This is a Stone Mining Project with an area of 1.214 Ha [Khata no. 40, Plot No.- 106, 108, 109 (P)]. The latitude and longitude of the project site is 23° 41' 5.70" N to 23° 41' 10.40" N and 86° 15' 57.70" E to 86° 15' 56.30" E. The nearest railway station is Chas at a distance of 8.0 km and nearest airport is Bokaro at a distance of 17 km . Total water requirement is 8.00 KLD. Drinking water supply will be met by existing nearby dug well / bore wells or private tankers.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	3,55,280 cum
Probable Mineable Reserve	:	50,400 cum

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

1 st Year	:	46,725 cum
2 nd Year	:	46,725 cum
3 rd Year	:	46,725 cum
4 th Year	:	46,800 cum
5 th Year	:	46,800 cum

The daily production as per Form-I is 156 tonne.

The indicated project cost is Rs 69.00 Lakh and a provision of Rs 8.00 Lakh has been indicated for Environment management.

DFO, Wildlife Hazaribagh vide letter no. 1644, dated 10.08.19 certified that the Topchanchi Wildlife Sanctuary is 23895 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, Bokaro Division vide letter dated 08.07.19 certified that the distance of notified forest is 500 m from proposed project site.

DMO, Bokaro vide letter no. 1487, dated 19.04.18 certified that no other lease is exists within 500 m radius from proposed project site.

The CO, Chas (Bokaro) vide letter no. 1180, dated 26.07.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II. However, CO certificate is not correct.

The DSR of the district is not available in the SEIAA / SEAC office.

The tenure of this committee (SEIAA / SEAC) is expiring on 8th November, 2019. In the interest of the development of the State the committee has taken the views for expediting the clearance process.

Accordingly, SEAC conditionally recommends the proposal for EC to SEIAA subject to submission of DSR related document from competent authority and certificate from CO regarding class of land.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Stone Mining for M/s Jai Maa Enterprises Crusher & Quarry (Prop : Sri Om Prakash Singh) at Vill : Pailadih, P.O. : Alkusha, P.S. : Chas, Dist : Bokaro (1.214 Ha)** be **conditionally** (project site not mentioned in DSR) recommended for consideration of SEIAA for grant of EC subject to submission of **DSR** related document from competent authority and proper **CO certificate** directly to SEIAA. The various conditions for grant of EC is enclosed as **Annexure - I**.

5. Baliapatra Stone Deposit of M/s Sahil Stone Works at Vill : Baliapatra, Taluka : Maheshpur, Dist. : Pakur (1.873 Ha).

(Proposal No. : SIA/JH/MIN/42798/2019)

This is a Stone Mining Project with an area of 1.873 Ha [Plot No- 395, 396,414, JB No. 5,14]. The latitude and longitude of the project site is 24°22'23.0811"N to 24°22'30.0145"N and 87°44'39.1683"E to 87°44'45.0943"E. The nearest railway station is Chatra at a distance of 10.5 km and nearest airport is Ranchi airport at a distance of 270 km. Total water requirement is 4.4 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	3,26,054.25 tonne
Probable Mineable Reserve	:	2,71,744.94 tonne

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

Year	Production of stone (Tonnes)
1 st	59,673.30
2 nd	59,777.08
3 rd	59590.65
4 th	59764.22
5 th	59,755.95

The daily production as per Form-I is 199.2 tonne.

The indicated project cost is Rs 30.0 Lakh and a provision of Rs 3.0 Lakh has been indicated for Environment management.

DFO, Wildlife Hazaribagh vide letter no. 1304, dated 08.07.19 certified that the National Park, Bio-Diversity, Sanctuary & ESZ is not within 10 km from proposed project site.

DFO, Pakur Division vide letter no. 666, dated 16.06.19 certified that the distance of notified forest is 1600 m from proposed project site.

DMO, Pakur vide memo no. 1509/M, dated 06.09.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The CO, Maheshpur vide letter no. 336, dated 30.05.19 has been submitted by the PP. Wherein, the CO has certified that the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II. However, Sri Y.K. Singh, Member, SEAC has pointed out that the forwarding letter of CO is confusing & not in prescribed format.

Hence, the PP has submitted "Undertaking" that he would abide by the provisions of Forest (Conservation) Act, 1980, if the project site would be found in future as "Jungle Jhari".

The project is mentioned in District Survey Report (DSR) of Pakur District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Baliapatra Stone Deposit of M/s Sahil Stone Works at Vill : Baliapatra, Taluka : Maheshpur, Dist. : Pakur (1.873 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

6. Dulmi Stone Deposit of M/s Elite Power Project & Construction Pvt. Ltd. at Vill : Siru, Tehsil : Dulmi, Dist : Ramgarh (9.50 Ha)

(Proposal No. : SIA/JH/MIN/40612/2019)

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 41 km. Total water requirement is 9.1 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

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

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

Year	Production of stone (Tonnes)
1 st	349424.16
2 nd	349216.29
3 rd	349428.04

4 th	349404.52
5 th	349419.49

The daily production as per Form-I is 1164.7 tonne.

The indicated project cost is Rs 45.0 Lakh and a provision of Rs 5.0 Lakh has been indicated for Environment management.

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 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 Khatiyon & Register II.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 23-25.10.19, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 for **issuing of TOR** for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in **Annexure II**.

SEIAA is requested to take decision on the "recommendation" of SEAC, in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18.

7. Chandpur Stone Deposit of Sri Goutam Singh at Vill : Chandpur, Taluka : Maheshpur, Dist : Pakur (0.838 Ha).

(Proposal No. : SLA/JH/MIN/42880/2019)

This is a Stone Mining Project with an area of 0.838 Ha [Plot No- 376, 377, JB No. 45]. The latitude and longitude of the project site is 24°20'09.4970"N to 24°20'15.21"N and 87°45'27.5546"E to 87°45'33.7845"E. The nearest railway station is Nalhati at a distance of 9.5 km and nearest airport is Ranchi at a distance of 271 km. Total water requirement is 4.3 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 3,00,322.50 tonne

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

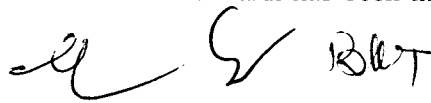
1 st Year	:	30,153.80 tonne
2 nd Year	:	30,153.48 tonne
3 rd Year	:	30,001.95 tonne
4 th Year	:	30,001.95 tonne
5 th Year	:	30,062.56 tonne

The daily production as per Form-I is 100.5 tonne.

The indicated project cost is Rs 25.0 Lakh and a provision of Rs 2.5 Lakh has been indicated for Environment management.

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DFO, Wildlife Hazaribagh vide letter no. 1381, dated 16.07.19 certified that the Udhwa Lake Bird Sanctuary is 38490 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 669, dated 16.06.19 certified that the distance of notified forest is 500 m from proposed project site.

DMO, Pakur vide memo no. 1521/M, dated 12.09.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The CO, Maheshpur vide letter no. 337, dated 30.05.19 has been submitted by the PP. Wherein, the CO has certified that the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II. However, Sri Y.K. Singh, Member, SEAC has pointed out that the forwarding letter of CO is confusing & not in prescribed format.

Hence, the PP has submitted "Undertaking" that he would abide by the provisions of Forest (Conservation) Act, 1980, if the project site would be found in future as "Jungle Jhari".

The project is mentioned in District Survey Report (DSR) of Pakur District.

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 **Chandpur Stone Deposit of Sri Goutam Singh at Vill : Chandpur, Taluka : Maheshpur, Dist : Pakur (0.838 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

8. Khokha Sand Mining Project of M/s Ganga Kaveri Construction (Prop : Sri Santosh Kumar Choubey) at Vill : Khokha, Panchayat : Sundi, P.S. : Bhawnathpur, Dist : Garhwa (23.0 Ha). (Proposal No. : SIA/JH/MIN/43682/2019)

The proposal was considered by the committee in its 70th meeting held on 29th and 30th April, 2019 and recommended for ToR. ToR was granted by SEIAA vide letter no. EC/SEIAA/2018-19/2000/2018/216, dated 14.05.2019. Public Hearing of the project was conducted on 30.08.2019. The final EIA / EMP was submitted by the PP to SEIAA on 01.10.2019 and forwarded to SEAC on 03.10.2019.

This is a Sand Mining Project with an area of 23.00 Ha [Khata No. - 59, Plot No.- 199 (P)]. It is a proposal for grant of mine lease after auction vide DMO's allotment letter no.- 833, dated- 04.07.2015. The latitude and longitude of the project site is 24° 29' 45.93" N to 24° 30' 4.45" N and 83°23'55.42" E to 83° 24' 15.20" E respectively. The nearest railway station is Nagar Untari at a distance of 27 km in SE direction and the nearest airport is Lal bahadur Shashtri International Airport, Varanasi at a distance of 118 km in NW direction. Total water requirement is about 9.4 KLD (5.4 KLD Domestic & Drinking uses) + 4 KLD Dust suppression), this water will be supplied from nearby village by tankers.

The indicated project cost is Rs 60 Lakh and a provision of Rs 3.60 Lakh has been indicated for Environment management. Budget for Corporate Environmental Responsibility (CER) is 1.40 Lakh.

The proposed estimated mineable reserve is 10,29,600 t and annual production capacity as per revised Form-I has been indicated as 9,26,640 t per annum.

DFO, North Garhwa vide letter no. 1222, dated - 18.03.17 certified that the distance of forest is 348 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary.

The CO, Kharoundhi vide letter no. 239, dated - 06.10.18 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in the Khatiyon or Register -II .

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 **Khokha Sand Mining Project of M/s Ganga Kaveri Construction (Prop : Sri Santosh Kumar Choubey) at Vill : Khokha, Panchayat : Sundi, P.S. : Bhawnathpur, Dist : Garhwa (23.0 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - III**.

9. Sunderpahari Stone Deposit of Sri Pinku Sheikh at Vill : Sunderpahari, Taluka : Maheshpur, Dist : Pakur (3.65 Ha).

(Proposal No. : SIA/JH/MIN/44020/2019)

This is a Stone Mining Project with an area of 3.65 Ha [Plot No- 21, 22, 28, JB No. 03, 10]. The latitude and longitude of the project site is 24°22'24.4054"N to 24°22'30.9077"N and 87°44'54.9362"E to 87°45'02.1868"E. The nearest railway station is Chatra at a distance of 10.0 km and nearest airport is Sido Kanhu at a distance of 51.5 km. Total water requirement is 5.5 KLD. Water will be taken from nearby village.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	3,67,957.80 tonne
Probable Mineable Reserve	:	3,30,467.76 tonne

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

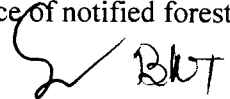

1 st Year	:	69,888.84 tonne
2 nd Year	:	69,888.84 tonne
3 rd Year	:	69,426.00 tonne
4 th Year	:	69,888.84 tonne
5 th Year	:	69,888.84 tonne

The daily production as per Form-I is 232.96 tonne.

The indicated project cost is Rs 30.0 Lakh and a provision of Rs 6.1 Lakh has been indicated for Environment management.

DFO, Wildlife Hazaribagh vide letter no. 1379, dated 16.07.19 certified that the Udhwa Lake Bird Sanctuary is 41065 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

DFO, Pakur Division vide letter no. 946, dated 09.08.19 certified that the distance of notified forest is 800 m from proposed project site.



DMO, Pakur vide memo no. 1510/M, dated 06.09.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The CO, Maheshpur vide letter no. 562, dated 31.07.19 has been submitted by the PP. Wherein, the CO has certified that the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II. However, Sri Y.K. Singh, Member, SEAC has pointed out that the forwarding letter of CO is confusing & not in prescribed format.

Hence, the PP has submitted "Undertaking" that he would abide by the provisions of Forest (Conservation) Act, 1980, if the project site would be found in future as "Jungle Jhari".

The project is mentioned in District Survey Report (DSR) of Pakur District.

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 **Sunderpahari Stone Deposit of Sri Pinku Sheikh at Vill : Sunderpahari, Taluka : Maheshpur, Dist : Pakur (3.65 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

10. Jirabar Brick Clay Deposit of M/s Meena Bricks (Prop. : Sri Naresh Sahu) at Vill : Jirabar, Thana : Kuchu, Dist : Ranchi (0.809 Ha).

(Proposal No. : SIA/JH/MIN/44152/2019)

This is Brick clay Mining Project with an area of 0.809 Ha [Plot No. 261 (P), Khata No. 17]. The latitude and longitude of the project site is 23°29'45.67"N to 23°29'50.60"N and 85°23'38.19"E to 85°23'42.03"E. The nearest railway station is Mersa at a distance of 9.0 km and nearest airport is Ranchi airport at a distance of 21.0 km. Total water requirement is 2.5 KLD. Water will be taken from nearby village.

Total minor mineral reserve of the applied area is about 10632 cum. As per estimation of requirement of 1714.30 cum for casting the granted number of Six Lakhs bricks / Season, the life of proposed area comes to be 6.20 or 6.50 seasons.

The indicated project cost is Rs 10.0 Lakh and a provision of Rs 6.6 Lakh has been indicated for Environment management.

DFO, Wildlife Ranchi vide memo no. 1054, dated 24.09.19 certified that the National Park, Bio-Diversity, Sanctuary and ESZ is not within 10 km from proposed site.

DFO, Ranchi Division vide letter no. 4805, dated 17.11.17 certified that the distance of notified forest is 600 m from proposed project site.

The CO, Ormanjhi vide letter no. 498 (ii), dated 16.09.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Ranchi vide memo no. 1367/M, dated 04.12.2017 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Ranchi District.

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 **Jirabar Brick Clay Deposit of M/s Meena Bricks (Prop. : Sri**

Naresh Sahu) at Vill : Jirabar, Thana : Kuchu, Dist : Ranchi (0.809 Ha) be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - IV.**

11. Sundre Stone Deposit of M/s O. P. Stone Works at Vill : Sundre, Banglow : Sakrogarh, Dist : Sahebganj (2.83 Ha)

(Proposal No. : SIA/JH/MIN/42740/2019)

This is a Stone Mining Project with an area of 2.83 Ha [Khata no. : 06, 25, 17, 14, 22, 27, 07, Plot No- 183, 185, 186, 187, 190 (P), 193, 206 (P), 207 (P), 103 (P)]. The latitude and longitude of the project site is 24°14'30.90"N to 24°14'40.20"N and 87°31'36.30"E to 87°31'45.50"E. The nearest railway station is Mirzachouki at a distance of 5.50 km and nearest airport is Birsa Munda Airport, Ranchi at a distance of 350 km. Total water requirement is 4.04 KLD (Drinking & domestic : 0.77 KLD, Afforestation / Green belt : 0.87 KLD, Dust Suppression : 2.40 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Sundre tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	19,12,027 tonne
Probable Mineable Reserve	:	1,11,116 tonne

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

1 st Year	:	2,10,130 tonne
2 nd Year	:	2,10,473 tonne
3 rd Year	:	1,96,992 tonne
4 th Year	:	1,99,341 tonne
5 th Year	:	2,21,875 tonne

The daily production as per Form-I is 740 tonne.

The indicated project cost is Rs 33.0 Lakh, a provision of Rs 5.84 Lakh has been indicated for Environment management and CER is 3.84 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1585, dated 09.08.19 certified that the Udhwa Lake Bird Sanctuary is 37420 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, Sahebganj Division vide memo no. 1463, dated 20.10.16 certified that the distance of notified forest is 260 m from proposed project site.

The CO, Mandro vide memo no. 758, dated 05.08.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyans Register II.

DMO, Sahebganj vide memo no. 1870/M, dated 30.11.17 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Sahebganj District.

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Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Sundre Stone Deposit of M/s O. P. Stone Works at Vill : Sundre, Banglow : Sakrogarh, Dist : Sahebganj (2.83 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

12. Chuwa Stone Deposit of M/s Dada Jeetu Buildcon Pvt. Ltd., Vill : Chuwa, P.S. : Jirwabadi OP, Dist : Sahebganj (3.64 Ha).

(Proposal No. : SIA/JH/MIN/43879/2019)

This is a Stone Mining Project with an area of 3.64Ha [**Khata no. : 05, 20, 28 & Plot no.:** 57, 60, 61 (P), 43 (P), 63(P)]. The latitude and longitude of the project site is 25°12'33.40 "N to 25°12'45.45"N and 87°34'41.85"E to 87°34'49.60"E. The nearest railway station is Mirzachauki at a distance of 8 km and nearest airport is Ranchi at a distance of 450 km. Total water requirement is 7.04 KLD (Dust Suppression : 5.20 KLD, Afforestation / Green belt : 0.80 KLD, Drinking / Domestic : 1.04 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Chuwa & tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	19,31,780 tonne
Probable Mineable Reserve	:	1,64,230 tonne

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

1 st Year	:	2,09,455 tonne
2 nd Year	:	2,02,265 tonne
3 rd Year	:	1,90,577 tonne
4 th Year	:	2,31,795 tonne
5 th Year	:	2,11,523 tonne

The daily production as per Form-I is 772.65 tonne (max).

The indicated project cost is Rs 23 Lakh, a provision of Rs 7.42 Lakh has been indicated for Environment management and CER is Rs. 4.29 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1590, dated 09.08.2019 certified that the Udhwa Lake Bird Sanctuary is 31270 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Sahebganj Division vide memo no. 2144, dated 24.11.17 certified that the distance of notified forest is 270 m from proposed project site.

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The CO, Mandro vide letter no. 623, dated 09.07.19 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. 373, dated 06.02.2018 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Sahebganj District.

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 **Chuwa Stone Deposit of M/s Dada Jeetu Buildcon Pvt. Ltd., Vill : Chuwa, P.S. : Jirwabadi OP, Dist : Sahebganj (3.64 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

13. Mundali Stone Deposit of M/s Aryan Stone Works (Prop. : Sri Binod Kumar Jaiswal), Vill : Mundali, P.S. : Mirzachauki, Dist : Sahibganj (3.55 Ha).

(Proposal No. : SIA/JH/MIN/43891/2019)

This is a Stone Mining Project with an area of 3.55Ha [Khata No. -03,15,06, & Plot No.- 60 (P), 61 (P), 62]. The latitude and longitude of the project site is 25°14'25.26 "N to 25°14'31.09"N and 87°29'32.78"E to 87°29'42.98"E. The nearest railway station is Mirzachauki at a distance of 3 km and nearest airport is Ranchi at a distance of 440 km. Total water requirement is 5.69 KLD (Dust Suppression : 4.03 KLD, Afforestation / Green belt : 0.62 KLD, Drinking / Domestic : 1.04 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Mundali & tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	27,27,616 tonne
Probable Mineable Reserve	:	1,62,135 tonne

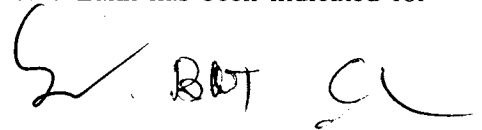
Year-wise Production as per Approved Mining Plan Report for five years is as follows

1 st Year	:	1,55,318 tonne
2 nd Year	:	2,12,609 tonne
3 rd Year	:	1,86,708 tonne
4 th Year	:	1,78,427 tonne
5 th Year	:	1,77,752 tonne

The daily production as per Form-I is 708.70 tonne (max).

The indicated project cost is Rs 25.11 Lakh, a provision of Rs 6.47 Lakh has been indicated for Environment management and CER is Rs. 3.94 Lakh.



 BBT

DFO, Wildlife Hazaribagh vide letter no. 1778, dated 29.08.2019 certified that National Park, Bio-Diversity & Sanctuary is not within 10 km from lease area and proposed project site is not situated in any ESZ.

The DFO, Sahebganj Division vide memo no. 1795, dated 15.09.17 certified that the distance of notified forest is more than 260 m from proposed project site.

The CO, Mandro vide memo no. 260, dated 12.03.2019 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Sahebganj vide memo no. 945, dated 10.04.2018 certified that no other lease exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Sahebganj District.

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 **Mundali Stone Deposit of M/s Aryan Stone Works (Prop. : Sri Binod Kumar Jaiswal), Vill : Mundali, P.S. : Mirzachauki, Dist : Sahebganj (3.55 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

14. Belbhadri Stone Deposit of M/s Pahariya Stone Works (Prop. : Sri Amit Kumar Gupta) at Vill : Belbhadri, P.S. : Mirzachouki, Dist : Sahebganj (2.22 Ha).

(Proposal No. : SIA/JH/MIN/43887/2019)

This is a Stone Mining Project with an area of 2.22Ha [Khata No. -28, 10, 02, 18 & Plot No.: 83, 175, 193(P), 194(P)]. The latitude and longitude of the project site is 25°14'22.17"N to 25°14'30.26"N & 87°29'17.02"E to 87°29'22.49"E The nearest railway station is Mirzachauki at a distance of 5 km and nearest airport is Ranchi at a distance of 440 km. Total water requirement is 5.73 KLD (Dust Suppression : 4.03 KLD, Afforestation / Green belt : 0.71 KLD, Drinking / Domestic : 0.99 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Belbhadri & tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 6,18,397 tonne

Proved Mineable Reserve : 1,17,584 tonne

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

1st Year : 87,537 tonne

2nd Year : 82,820 tonne

3rd Year : 86,546 tonne

4th Year : 86,030 tonne

5th Year : 84,988 tonne

The daily production as per Form-I is 291.79 tonne (max).

The indicated project cost is Rs 20.68 Lakh, a provision of Rs 6.67 Lakh has been indicated for Environment management and CER is Rs. 4.38 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1595, dated 09.08.2019 certified that the Udhwa Lake Bird Sanctuary is 40630 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Sahebganj Division vide memo no. 187, dated 28.01.2017 certified that the distance of notified forest is 410 m from proposed project site.

The CO, Mandro vide memo no. 259, dated 12.03.2019 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. 1791, dated 23.11.2017 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Sahebganj District.

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 **Belbhadri Stone Deposit of M/s Pahariya Stone Works (Prop. : Sri Amit Kumar Gupta) at Vill : Belbhadri, P.S. : Mirzachouki, Dist : Sahebganj (2.22 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

15. Daminbhitha Stone Deposit of M/s Jai Mata Di Stone Works at Vill : Daminbhitha, P.S. : Mirzachouki, Dist : Sahebganj (2.75 Ha).

(Proposal No. : SIA/JH/MIN/43552/2019)

This is a Stone Mining Project with an area of 2.75Ha [Khata No. -54, 27, 51, 13 & Plot No.- 398(P), 399(P), 406(P), 404(P), 405(P), 408(P)]. The latitude and longitude of the project site is 25°14'25.90"N to 25°14'32.83"N & 87°31'48.07"E to 87°32'00.04"E. The nearest railway station is Mirzachouki at a distance of 5 km and nearest airport is Ranchi at a distance of 440 km. Total water requirement is 5.93 KLD (Dust Suppression : 4.03 KLD, Afforestation / Green belt : 0.82 KLD, Drinking / Domestic : 1.08 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Daminbhitha & tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 19,40,417 tonne

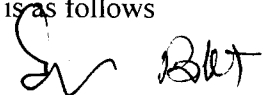
Probable Mineable Reserve : 68,672 tonne

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









1 st Year	:	1,80,098 tonne
2 nd Year	:	1,80,020 tonne
3 rd Year	:	1,80,012 tonne
4 th Year	:	1,80,020 tonne
5 th Year	:	1,80,079 tonne

The daily production as per Form-I is 600.32 tonne (max).

The indicated project cost is Rs 21.54 Lakh, a provision of Rs 6.96 Lakh has been indicated for Environment management and CER is Rs. 3.34 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 2037, dated 21.09.2019 certified that National Park, Bio-Diversity & Sanctuary is not within 10 km from lease area and proposed project site is not situated in any ESZ.

The DFO, Sahebganj Division vide memo no. 1766, dated 12.09.2018 certified that the distance of notified forest is 255 m from proposed project site.

The CO, Mandro vide memo no. 256, dated 12.03.2019 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. 945, dated 12.03.19 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Sahebganj District.

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 **Daminbhitha Stone Deposit of M/s Jai Mata Di Stone Works at Vill : Daminbhitha, P.S. : Mirzachouki, Dist : Sahebganj (2.75 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

16. Hathidari Stone Deposit of M/s Shambavi Mining Company (Prop. : Sri Sujeet Kumar) at Vill : Hathidari, P.S. : Jirwabadi, Dist : Sahebganj (4.45 Ha).

(Proposal No. : SIA/JH/MIN/43567/2019)

This is a Stone Mining Project with an area of 4.45 Ha [Khata No. -07, 08, 10, 14, 16, 17, 19 & Plot No.- 11, 6 (P), 31 (P), 9 (P), 14 (P), 32 (P), 12 (P), 10 (P)]. The latitude and longitude of the project site is 25°13'18.31"N to 25°13'27.30"N & 87°35'08.57"E to 87°35'20.95"E The nearest railway station is Sahibganj at a distance of 7 km and nearest airport is Ranchi at a distance of 450 km. Total water requirement is 5.25 KLD (Dust Suppression : 3.06 KLD, Afforestation / Green belt : 0.84 KLD, Drinking / Domestic : 1.35 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Hathidari & tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	28,49,183 tonne
Probable Mineable Reserve	:	2,64,989 tonne

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

1 st Year	:	3,22,626 tonne
2 nd Year	:	3,56,756 tonne
3 rd Year	:	3,07,411 tonne
4 th Year	:	2,49,448 tonne
5 th Year	:	2,35,710 tonne

The daily production as per Form-I is 1189.19 tonne (max).

The indicated project cost is Rs 33 Lakh, a provision of Rs 5.55 Lakh has been indicated for Environment management and CER is Rs. 5.45 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1549, dated 03.08.2019 certified that the Udhwa Lake Bird Sanctuary is 31930 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Sahebganj Division vide memo no. 2176, dated 27.11.2017 certified that the distance of notified forest is 560 m from proposed project site.

The CO, Mandro vide memo no. 255, dated 12.03.2019 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. 61/M, dated 06.01.2018 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Sahebganj District.

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 **Hathidari Stone Deposit of M/s Shambavi Mining Company (Prop. : Sri Sujeet Kumar) at Vill : Hathidari, P.S. : Jirwabadi, Dist : Sahebganj (4.45 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

17. Bhutaha Stone Deposit of M/s Maa Raksi Stone Works (Prop. : Sri Tinkal Kumar Bhagat) at Vill : Bhutaha, P.S. : Mirzachauki, Dist : Sahebganj (1.27 Ha).

(Proposal No. : SIA/JH/MIN/43298/2019)

This is a Stone Mining Project with an area of 1.27 Ha [Khata No. : 34, 13 & Plot No. : 76, 77. The latitude and longitude of the project site is Lat. 25° 14' 26.9965" N to 25° 14' 25.7753" N Long. 87° 29' 55.0247" E to 87° 29' 54.8190" E. The nearest railway station is Mirzachauki at a distance

of 6 km and nearest airport is Ranchi at a distance of 350 km. Total water requirement is 5.24 KLD (Dust Suppression : 3.51 KLD, Afforestation / Green belt : 0.38 KLD, Drinking / Domestic : 1.35 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Bhutaha & tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 6,47,044 tonne

Probable Mineable Reserve : 1,23,028 tonne

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

1st Year : 77,371 tonne

2nd Year : 67,554 tonne

3rd Year : 75,524 tonne

4th Year : 79,742 tonne

5th Year : 77,301 tonne

The daily production as per Form-I is 251.66 tonne (max).

The indicated project cost is Rs 18.03 Lakh, a provision of Rs 6.60 Lakh has been indicated for Environment management and CER is Rs. 1.40 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1777, dated 29.08.2019 certified that National Park, Bio-Diversity & Sanctuary is not within 10 km from lease area and proposed project site is not situated in any ESZ.

The DFO, Sahebganj Division vide memo no. 1984, dated 31.10.2017 certified that the distance of notified forest is 350 m from proposed project site.

The CO, Mandro vide memo no. 814, dated 24.08.2019 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. 1227, dated 04.06.2018 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Sahebganj District.

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 **Bhutaha Stone Deposit of M/s Maa Raksi Stone Works (Prop. : Sri Tinkal Kumar Bhagat) at Vill : Bhutaha, P.S. : Mirzachauki, Dist : Sahebganj (1.27 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

[Handwritten signatures and initials]

Day 2 : October 24, 2019 [Thursday]

Consideration of Proposals

1. Chandpur Stone Deposit of Sri Aditya Mahaldar at Vill : Chandpur, P.S. : Maheshpur, Dist : Pakur (1.53 Ha).

(Proposal No. : SIA/JH/MIN/40925/2019)

This is a Stone Mining Project with an area of 1.53Ha [Khata no. : 27, 19, 30, 32, Plot no.434 to 447] .The latitude and longitude of the project site is 24°20'6.49"N To 24°20'14.07"N and 87°45'25.84"E To 87°45'33.03"E nearest railway station is Chatra at a distance of 12 km and nearest airport is Ranchi at a distance of 272 km. Total water requirement is 4.95 KLD (Dust Suppression : 3.57 KLD, Afforestation / Green belt : 0.59 KLD, Drinking / Domestic : 0.72 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Chandpur & tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 5,86,448 tonne

Probable Mineable Reserve : 35,542 tonne

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

1st Year	:	1,41,068 tonne
2nd Year	:	1,59,916 tonne
3rd Year	:	1,60,439 tonne
4thYear	:	65,389 tonne

The daily production as per Form-I is 562.94 tonne.

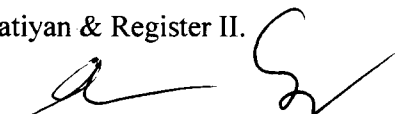


The indicated project cost is Rs 33.11 Lakh, a provision of Rs 5.37 Lakh has been indicated for Environment management and CER is Rs. 3.13 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1635, dated 10.08.2019 certified that the Udhwa Lake Bird Sanctuary is 70050 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 1836, dated 19.09.18 certified that the distance of notified forest is 1520 m from proposed project site.

The CO, Maheshpur vide letter no. 1170, dated 30.11.18 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.



 
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DMO, Pakur vide memo no. 1045, dated 02.07.19 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Pakur District.

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 **Chandpur Stone Deposit of Sri Aditya Mahaldar at Vill : Chandpur, P.S. : Maheshpur, Dist : Pakur (1.53 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

2. Kusumdanga Stone Deposit of M/s Maa Durga Stone Works at Vill : Kusumdanga, P.S. : Maheshpur, Dist : Pakur (2.79 Ha).

(Proposal No. : SIA/JH/MIN/43943/2019)

This is a Stone Mining Project with an area of 2.79 Ha [Khata No.-04 & Plot No. – 114, 115, 116, 118]. The latitude and longitude of the project site is 24°33'1.56" N To 24°32'56.96" N and 87°43'24.53" E To 87°43'24.05" E. The nearest railway station is Nagar Nabhi at a distance of 15 km and nearest airport is Ranchi at a distance of 280 km. Total water requirement is 2.99 KLD (Dust Suppression : 1.69 KLD, Afforestation / Green belt : 0.17 KLD, Drinking / Domestic : 1.13 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Kusumdanga tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	12,07,923 tonne
Probable Mineable Reserve	:	2,68,335 tonne

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

1st Year	:	1,26,084 tonne
2nd Year	:	1,26,050 tonne
3rd Year	:	1,25,902 tonne
4th Year	:	1,25,910 tonne
5th Year	:	1,26,126 tonne

The daily production as per Form-I is 420.42 tonne.

The indicated project cost is Rs 30.34 Lakh, a provision of Rs 5.08 Lakh has been indicated for Environment management and CER is Rs. 2.34 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1434, dated 25.07.19 certified that the Udhwa Lake Bird Sanctuary is 46870 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 911, dated 06.08.19 certified that the distance of notified forest is more than 900 m from proposed project site.

The CO, Maheshpur vide letter no. 512, dated 17.07.19 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Pakur vide memo no. 1556, dated 16.09.19 certified that no other lease is exists within 500 m radius from proposed project site.

The project site is not mentioned in District Survey Report (DSR) of Pakur District.

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 **Kusumdanga Stone Deposit of M/s Maa Durga Stone Works at Vill : Kusumdanga, P.S. : Maheshpur, Dist : Pakur (2.79 Ha)** be **conditionally** (project site not mentioned in DSR) recommended for grant of EC, subject to submission of DSR from competent authority directly to SEIAA. The various conditions for grant of EC is enclosed as **Annexure - I**.

3. Talpahari Stone Deposit of Sri Ishaque Shaikh at Vill : Talpahari, P.S. : Hiranpur, Dist : Pakur (2.82 Ha).

(Proposal No. : SIA/JH/MIN/43775 /2019)

This is a Stone Mining Project with an area of 2.82Ha [Khata No.-14,23,37,45,54,30,11 & Plot No. – 386, 387, 401, 402(p), 403(p) 404, 405(p), 406(p), 407, 408, 409, 410, 411(P), 412(P), 413(P)]. The latitude and longitude of the project site is 24°42'06.64"N To 24°42'07.74"N and 87°47'16.94"E To 87°47'09.38"E. The nearest railway station is Tilbhita at a distance of 7.0 km and nearest airport is Ranchi at a distance of 300 km. Total water requirement is 5.22 KLD (Dust Suppression : 3.58 KLD, Afforestation / Green belt : 0.51 KLD, Drinking / Domestic : 1.13 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Talpahari tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 11,77,176 tonne

Probable Mineable Reserve : 11,77,176 tonne

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

1st Year : 1,43,550 tonne

2nd Year : 1,13,624 tonne

3rd Year : 1,13,725 tonne

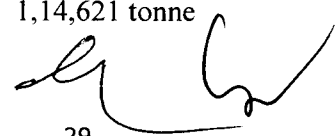
4th Year : 1,13,047 tonne

5th Year : 1,14,621 tonne

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The daily production as per Form-I is 479 tonne.

The indicated project cost is Rs 30 Lakh, a provision of Rs 5.74 Lakh has been indicated for Environment management and CER is Rs. 2.66 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1394, dated 20.07.19 certified that the Udhwa Lake Bird Sanctuary is 46870 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 754, dated 09.07.19 certified that the distance of notified forest is more than 400 m from proposed project site.

The CO, Pakur vide letter no. 368, dated 20.07.19 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II (Check Slip).

DMO, Pakur vide memo no. 1492, dated 05.09 certified that no other lease is exists within 500 m radius from proposed project site.

The project site is not mentioned in District Survey Report (DSR) of Pakur District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for **Talpahari Stone Deposit of Sri Ishaque Shaikh at Vill : Talpahari, P.S. : Hiranpur, Dist : Pakur (2.82 Ha)** be **conditionally** (project site not mentioned in DSR) recommended for grant of EC, subject to submission of DSR from competent authority directly to SEIAA. The various conditions for grant of EC is enclosed as **Annexure - I**.

4. Kusumghati Stone Mine of Sri Fadar Ansari at Vill : Kusumghati, P.S. : Shikaripara, Dist : Dumka (2.94 Ha).

(Proposal No. : SIA/JH/MIN/43971/2019)

This is a Stone Mining Project with an area of 2.94 Ha [Plot No.- 373 to 379, 416, 417(P), 426, 432(P), 433(P), 434]. Latitude and longitude of the project site is 24 11' 47.4" N To 24 11' 42.4" N and 87 32' 48.4" E To 87 32' 49.8" E. The nearest railway station is Dumka at a distance of 40 km and nearest airport is Ranchi at a distance of 250 km. Total water requirement is 6.62 KLD (Dust Suppression : 4.23 KLD, Afforestation / Green belt : 0.95 KLD, Drinking / Domestic : 1.44 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Kusumghati tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 17,14,284 tonne

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

1st Year : 1,58,355 tonne

2nd Year : 1,52,766 tonne

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3rd Year	:	1,47,177 tonne
4th Year	:	1,41,588 tonne
5th Year	:	1,35,999 tonne

The daily production as per Form-I is 527.85 tonne.

The indicated project cost is Rs 30.40 Lakh, a provision of Rs 8.71 Lakh has been indicated for Environment management and CER is Rs. 2.93 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1645, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 89546 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Dumka Division vide letter no. 3298, dated 17.07.16 certified that the distance of notified forest is 288 m from proposed project site.

The CO, Shikaripara vide letter no. 636, dated 05.07.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Dumka vide memo no. 876, dated 16.05.17 09 certified that no other lease is exists within 500 m radius from proposed project site.

The project site is not mentioned in District Survey Report (DSR) of Dumka District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Kusumghati Stone Mine of Sri Fadar Ansari at Vill : Kusumghati, P.S. : Shikaripara, Dist : Dumka (2.94 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.





5. Hathigarh Stone Deposit of M/s Hakim Momin at Vill : Hathigarh, P.S. : Litipara, Dist : Pakur (4.14 Ha).

(Proposal No. : SIA/JH/MIN/ 43888/2019)

This is a Stone Mining Project with an area of 4.14 Ha [J. B. no. : 36, 40, 66, 78, 88 & Plot no. : 761, 762, 763, 764, 803(P), 808, 809, 810, 813, 815, 816, 817, 818, 819, 820, 822, 828, 832(P), 833(P), 834(P)]. The latitude and longitude of the project site is 24°43'48.92"N to 24°43'57.88"N and 87°42'7.20"E To 87°42'19.13"E . The nearest railway station is Pakur at a distance of 20.5 km and nearest airport is Ranchi at a distance of 290 km. Total water requirement is 7.1 KLD (Dust Suppression : 4.55 KLD, Afforestation / Green belt : 0.93 KLD, Drinking / Domestic : 1.62 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Hathigarh tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 17,46,100 tonne

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Probable Mineable Reserve : 1,71,800 tonne

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

1st Year	:	1,76,935 tonne
2nd Year	:	1,81,151 tonne
3rd Year	:	1,80,786 tonne
4th Year	:	1,83,428 tonne
5th Year	:	1,83,819 tonne

The daily production as per Form-I is 612.73 tonne.

The indicated project cost is Rs 32.05 Lakh, a provision of Rs 6.57 Lakh has been indicated for Environment management and CER is Rs. 3.41 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1540, dated 03.08.19 certified that the Udhwa Lake Bird Sanctuary is 28570 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 1665, dated 28.10.16 certified that the distance of notified forest is above 250 m from proposed project site.

The CO, Littipara vide memo no. 367, dated 29.08.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.

DMO, Pakur vide memo no. 1229, dated 01.06.17 certified that no other lease is exists within 500 m radius from proposed project site.

The project site is not mentioned in District Survey Report (DSR) of Pakur District.

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 **Hathigarh Stone Deposit of M/s Hakim Momin at Vill : Hathigarh, P.S. : Litipara, Dist : Pakur (4.14 Ha)** be **conditionally** (project site not mentioned in DSR) recommended for grant of EC, subject to submission of DSR from competent authority directly to SEIAA. The various conditions for grant of EC is enclosed as **Annexure - I**.

6. Pokharia Stone Mine of Sri Anil Prasad Singh at Vill : Pokharia, P.S. : Shikaripara, Dist : Dumka (2.98 Ha).

(Proposal No. : SIA/JH/MIN/44183/2019)

This is a Stone Mining Project with an area of 2.98 Ha [Plot No.-1191(P), 1193(P), 1194(P), 1195(P), 1196(P), 1214(P), 1215, 1216(P), 1217(P), 1218(P), 1219(P), 1250(P)]. The latitude and longitude of the project site is 24°12'4.15"N to 24°11'55.38"N 87°33'34.77"E to 87°34'29.69"E. The nearest railway station is Pinargaria at a distance of 8.56 km and nearest airport is Ranchi at a distance of 245 km. Total water requirement is 5.84 KLD (Dust Suppression : 3.64 KLD, Afforestation / Green belt : 1.07 KLD, Drinking / Domestic : 1.13 KLD). The drinking & domestic

water need will be fulfilled by taking water from nearby village like Pokharia tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 9,13,160 tonne

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

1st Year	:	1,49,863.5 tonne
2nd Year	:	1,49,863.5 tonne
3rd Year	:	1,49,917.5 tonne
4th Year	:	1,49,955.3 tonne
5th Year	:	1,49,995.8 tonne

The daily production as per Form-I is 499.99 tonne.

The indicated project cost is Rs 33.25 Lakh, a provision of Rs 6.00 Lakh has been indicated for Environment management and CER is Rs. 2.78 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 2105, dated 30.09.19 certified that National Park, Bio-Diversity & Sanctuary is not within 10 km from proposed site and proposed project is not situated in any ESZ.

The DFO, Dumka Division vide letter no. 784, dated 09.03.17 certified that the distance of notified forest is 324 m from proposed project site.

The CO, Dumka vide letter no. 683, dated 20.07.19 has mentioned the plot no.-1191(P), 1193(P), 1194(P), 1195(P), 1196(P), 1214(P), 1215, 1216(P), 1217(P), 1218(P), 1219(P), 1250(P) of the project is not recorded as "Jangle Jhari" in R.S Khatiyar & Register II (Check Slip).

DMO, Dumka vide memo no. 1291, dated 04.07.17 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Dumka District.

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 **Pokharia Stone Mine of Sri Anil Prasad Singh at Vill : Pokharia, P.S. : Shikaripara, Dist : Dumka (2.98 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

7. **Salboni Stone Mine of M/s Salboni Stone Works (Prop. : Sri Bimal Kumar Pandey) at Vill : Salbona, P.S. : Pakur, Dist : Pakur (2.85 Ha).**

(Proposal No. : SIA/JH/MIN/44160/2019)

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This is a Stone Mining Project with an area of 2.85Ha [Khata No.-10,16 & Plot No. – 66, 67, 68, 70 to 77, 80, 137(P), 140(P), 147 to 150]. The latitude and longitude of the project site is 24°35'39.99"N to 24°35'38.86"N and 87°51'18.86"E to 87°51'23.91"E. The nearest railway station is Nagarnabhi at a distance of 1.25 km and nearest airport is Ranchi at a distance of 294 km. Total water requirement is 5.1 KLD (Dust Suppression : 3.58 KLD, Afforestation / Green belt : 0.39 KLD, Drinking / Domestic : 1.13 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Salboni tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	13,52,126 tonne
Probable Mineable Reserve	:	3,29,064 tonne

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

1st Year	:	1,25,938 tonne
2nd Year	:	1,26,039 tonne
3rd Year	:	1,25,832 tonne
4th Year	:	1,25,832 tonne
5th Year	:	1,26,062 tonne

The daily production as per Form-I is 420.206 tonne.

The indicated project cost is Rs 30 Lakh, a provision of Rs 5.24 Lakh has been indicated for Environment management and CER is Rs. 2.34 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1380, dated 16.07.19 certified that the Udhwa Lake Bird Sanctuary is 28570 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Pakur Division vide letter no. 833, dated 24.07.19 certified that the distance of notified forest is 1060 m from proposed project site.

The CO, Pakur vide letter no. 1039, dated 17.07.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II. CO has also certified that human habitation lie within 500 m and Educational Institute is 1500 fit from the said project site.

DMO, Pakur vide memo no. 1535, dated 13.09.19 certified that no other lease is exists within 500 m radius from proposed project site.

The project site is not mentioned in District Survey Report (DSR) of Pakur District.

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 **Salboni Stone Mine of M/s Salboni Stone Works (Prop. : Sri Bimal**

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Kumar Pandey) at Vill : Salbona, P.S. : Pakur, Dist : Pakur (2.85 Ha) be conditionally (project site not mentioned in DSR) recommended for grant of EC, subject to submission of DSR from competent authority directly to SEIAA. The various conditions for grant of EC is enclosed as **Annexure - I.**

8. Kendpahari Stone Mine of Sri Bir Kumar Atrawal at Vill : Kendpahari, Panchayat : Jhunki, P.S. : Shikaripara, Dist : Dumka (2.91 Ha).

(Proposal No. : SIA/JH/MIN/43983/2019)

This is a Stone Mining Project with an area of 2.91Ha [Plot No.-800, 801,802(P), 804, 805,806, 1307,1308]. The latitude and longitude of the project site is 24°13'22.73"N to 24°13'15.84"N 87°38'00.59"E to 87°37'52.30"E. The nearest railway station is Pinargaria at a distance of 2.84 km and nearest airport is Ranchi at a distance of 256 km. Total water requirement is 5.26 KLD (Dust Suppression : 3.45 KLD, Afforestation / Green belt : 0.95 KLD, Drinking / Domestic : 0.86 KLD). The drinking & domestic water need will be fulfilled by taking water from nearby village like Kendpahari tube well. As soon as mine void is formed water for green belt and dust suppression will be met from water accumulated in mine void. For the purpose of dust suppression & afforestation water of nearby ponds and rain water harvesting will be used.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 10,79,265.6 tonne

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

1st Year	:	2,87,955 tonne
2nd Year	:	2,58,187.5 tonne
3rd Year	:	2,29,770 tonne
4thYear	:	2,02,702.5 tonne

The daily production as per Form-I is 959.85 tonne.

The indicated project cost is Rs 33 Lakh, a provision of Rs 5.92 Lakh has been indicated for Environment management and CER is Rs. 5.33 Lakh.

DFO, Wildlife Hazaribagh vide letter no. 1642, dated 10.08.19 certified that the Udhwa Lake Bird Sanctuary is 84280 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Dumka Division vide letter no. 4132, dated 22.12.18 certified that the distance of notified forest is 2250 m from proposed project site.

The CO, Dumka vide letter no. 1030, dated 20.11.18 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.

DMO, Dumka vide memo no. 888, dated 30.07.19 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Dumka District.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for **Kendpahari Stone Mine of Sri Bir Kumar Atrawal at Vill : Kendpahari, Panchayat : Jhunki, P.S. : Shikaripara, Dist : Dumka (2.91 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

9. "Aakash Riviera" Mix Use Development, Jamshedpur Residential and Commercial complex of M/s Aakash India Projects and Builders Pvt. Ltd. at Vill : Doba and Kapali, Tehsil : Chandil, Dist : Saraikela-Kharsawan,

(Proposal No. : SIA/JH/MIS/109133/2019)

The salient feature of project is given in table given below:

Name of the project	Aakash Riviera, "Commercial and Residential Project in a plot area of 19,612.8 sqm ~ 1.96 ha (4.8575 acres) and built-up area of 54285.15 sqm" at Dobo and Kapali villages, Chandil Block, Saraikela Kharsawan, District, Jharkhand State
Name of applicant	M/s Aakash India Projects and Builders Private Limited
Category of the project	(B) Building & Construction Projects
Project location	Village : Kapali and Dobo, Tehsil : Chandil, Dist.: Saraikela-Kharsawan, Jharkhand Plot no.: 1374, 1375, 1377, 1378; Khata No. 142 Thana no. 331 Plot no.: 137, 138 of Khata No 273 Thana No 332 Latitude : 22° 50' 07.85" N Longitude : 86° 10' 07.52" E.
Total land area	4.8575 Acres
Total plot area	19612.8 sqm.
Total built up area	54285.15 sqm
Total Proposed Ground Coverage (38.24%)	7500 sqm
Proposed FAR	40683.98 sqm (2.07)
Landscape Area (@ (34.89 % of the plot area)	6842.83 sqm
Total Open Space	12112.87 sqm (61.76 % of the total area)
Parking Area provided	13357.25 sqm
Area of internal roads & pavement (23.38%)	4570.50 sqm

Maximum height of building	40.40 m ABC Block and 43.7 m D Block	
Total no. of Dwelling Units	135 units - residential	
Total no. of shop	09 nos.	
No. of floors	(B+G+12)	
Building name	Aakash Riviera	
Total project cost	Total Cost: Rs. 90.00 Crores (Land: Rs. 7.00 Crores + Construction: Rs. 74.00 Crores + EMP: Rs. 7.20 Crores + CER: Rs. 1.80 Crores)	
Built up area details	Type	Numbers
	Commercial	
	Office	10
	Banquet	01
	Restaurant	10
	Multiplex	03
	Residential	
	Apartments	
	Type A (3BR-3T)	42
	Type B, B1 (3BR-3T-P-M)	57
	Type C, C1 (4BR-4T-P-M)	20
	Type D (Duplex)	12
Type D (Penthouse)	3	
Type E (Penthouse)	1	
Nearest Airport / Railway	Sonari Airport – 2.4 Km in South direction Ranchi Airport – 110 Km by road from the project site towards North West direction. Tatanagar Junction Railway Station is 8.5 km away from the project site towards South Eastern direction.	

Total Water Consumption:

Sl. No.	Description	Water Requirement
1.	Fresh Water	207.44 KLD
2.	Recycled water	65 KLD
	Total	272.44 KLD

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3.	Waste water generated	91.00 KLD
Excess wastewater during rainy season will be pumped back to TPP for reuse		

Water Requirement	Total Water Requirement- 272.44 KLD (Domestic + Flushing +Gardening & others) Total Fresh Water Requirement -207.44 KLD; Source: Fresh water – Borewells & Treated water from STP. Waste Water Generation: 91 KLD , Treated Waste Water to be reused - 72 KLD, for Flushing, 55 KLD for Green Belt Development 10 KLD & 7 KLD for General Washing etc.
STP	Capacity of Sewerage Treatment Plant - 100 KLD (MBBR Type) Treated Waste Water Reuse - 72 KLD Excess Wastewater discharge to Zila Parishad Drain as per approval by letter no. 111/ZP, Saraikela Kharsawan, Dated: 06.07.2019.
Power Requirement	The total estimated demand load of the whole complex (Commercial + Residential) is 3104 KVA, and it has been envisaged that one single connection of 2.5 MW load will be obtained. Source:- From JBVNL, Maniqui Grid Solar Power – 10 KWp Load through Solar Street Light, Water heater & other System. Back Up DG Set Commercial area of Building shall be provided with 100% emergency power Backup generated by 2 Nos. 1250 kVA Radiator cooled DG set at ground level and Residential area of Building, DG Backup generated by 1 No. 1000 kVA + 1 No. 500 kVA 100% DG Power Backup shall be provided to common area lift lobbies & other services including flats. Power source during construction – JVBNL ~ 250 kVA
Operational Solid Waste Generation and Disposal	Total waste= 5.8 ton/day Biodegradable waste =2.3 ton/day (Waste vegetables and foods etc.) Non Biodegradable waste =3.5 ton/day (Papers, cartoons, thermocol, plastics, glass etc.) Segregation, Storage & Disposal as per Solid Waste Management Rules 2016 and disposed through Govt. agency as per Zila parishad letter no. 113/ZP, dt. 06.07.2019

Energy Saving Measures:

- Use of local building material to reduce pollution & transportation energy.
- All the pumps shall have minimum efficiency as per ECBC norms
- Energy efficient building envelope-use of fly ash bricks/AAC blocks for external walls
- Insulation to roof.
- Programmable switching arrangement for external lighting to prevent wastage of energy.
- Energy efficient lighting fixture LED lamps to be provided in common areas.
- Adequate solar panels will be installed to conserve energy.

Rain Water harvesting for the project:

S.NO.	DESCRIPTION	DERAILS	UNITS
1	<u>For Roof/Terrace only</u>		
(i)	Average Runoff co-efficient	0.9	
(ii)	Area considered	5,243	m ²

(iii)	Intensity of rainfall considered (Peak)	45	mm/hour
(iv)	Infiltration well capacity design period	20	minutes
(v)	Net run off for which holding is required for infiltration	15	mm
(vi)	Theoretical Volume of Infiltration Wells required— (A)	70.78	m ³
2	<u>For Paved/Road Area</u>		
(i)	Average Runoff co-efficient	0.7	
(ii)	Area considered	9,663	m ²
(iii)	Intensity of rainfall considered (Peak)	45	mm/hours
(iv)	Infiltration well capacity design period	20	Minutes
(v)	Net run off for which holding is required for infiltration	15	mm
(vi)	Theoretical Volume of Infiltration Wells required— (B)	101.47	m ³
3	<u>For landscaped, greens and other open areas</u>		
(i)	Average Runoff co-efficient	0.2	
(ii)	Area considered	3,727	m ²
(iii)	Intensity of rainfall considered (Peak)	45	mm/hour
(iv)	Infiltration well capacity design period	20	Minutes
(v)	Net run off for which holding is required for infiltration	15	mm
(vi)	Theoretical Volume of Infiltration Wells required— (C)	11.18	m ³

S.NO.	DESCRIPTION	DERAILS	UNITS
	<u>Desilting Tank</u>		
(i)	Dimensions of Desilting Tank	3.0 M x 2.0 M x2.0 m Effective Depth	m ³
(ii)	Volume of Desilting Tank (1)	12	m ³
	<u>Recharge Pit</u>		
(i)	Dimensions of Recharge Pit	3.5 M Dia x 3.5 M Effective Depth	m ³
(ii)	Volume of Recharge Pit (2)	33.66	m ³
(iii)	Total Volume of infiltration Wells Required (A+B+C)	183.43	m ³
(iv)	Thus, no of infiltrations well required	5,450	
(v)	No. of Infiltration wells provided	6	

S.NO.	DESCRIPTION	DERAILS	UNITS
1	<u>Storage Tank Sizing (as per PCB Guidelines)</u>		
(i)	Total Capacity of Storage Tank Required (One day Fresh Water Demand)	210.00	m ³

DCF & Field Director, Elephant Project, Jamshedpur vide letter no. 748, dated 24.07.2019 certified that the Wildlife Sanctuary is within 10 km but area is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary .

The DFO, Jamshedpur Division vide letter no. 2577, dated 10.08.2019 certified that the distance of notified forest is 3000 m from proposed project site.

The DFO, Saraikela Division vide letter no. 1006 dated 10.08.2019 certified that the distance of notified forest is 640 m from plot nos. 1374, 1375, 1377, 1378 of proposed project site.

The DFO, Saraikela Division vide letter no. 1007, dated 10.08.2019 certified that the distance of notified forest is 700 m from plot nos. 137 & 138 of proposed project site.

The CO, Chandil vide letter no. 615, dated 22.02.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari".

PP and the consultant presented the project and following documents/clarifications were sought by SEAC.

- i. Permission granted by Seraikela-Kharsawan ZilaParishad in favour of Akash India Projects & Builders Pvt. Ltd. is not there instead is in favour of Mr.Agrawal & others vide memo no. 0002 dt. 01.07.19. Even though 3 copies of approved plans were provided by ZP, xerox copy of approved Building maps not provided to SEAC to examine if the Building area & the plot area are matching with the proposal.
- ii. Layout of boreholes with coordinates & levels super imposed on contour plan to be provided.All references to bore log data has been mentioned with respect to EGL, which is having wide variations.
- iii. Name of applicant is not appearing in NOC application for ground water.The signature of applicant is not matching with signature of Mr.V.Sawa, Director who is authorised to sign all papers/documents.
- iv. Proposed plot is adjacent to the Subarnarekha river.The layout of plot on contour plan showing the water bodies / rivers etc within 500 m to be furnished along with approach road etc. HFL of the river / nallah in close vicinity to be provided.
- v. General arrangement drawing/Conceptual plan of the residential cum commercial complex with cross section plotted on contour plan to be provided showing all related infrastructures like roads, drains, rain water harvesting pits, sewer lines, etc. to appraise the project correctly.
- vi. For examining the height of building above ground (44.3 m), approved plan to be provided. For (B+G+12) building, height appears to be on lower side.
- vii. Quantification of earth work to be provided indicating computational detail of excavation & filling of earth work.
- viii. To examine sufficiency of existing road infrastructure to the project side from material movement point of view,the road network with details like width, levels, etc to be provided.

- ix. On page 14, RWH pits have been mentioned to have 3.2 m dia & 3.5 m depth but in point no. 4 on page no. 13, it is mentioned to be 3.5m dia & 3.5 m depth. Capacity of infiltration well to be calculated for 60 minutes and accordingly the number of pits to be increase and disposition to be shown on drawing with coordinates

All the requisite documents were submitted and the consultant explained the queries in details.

Based on the presentation made and information provided, the Committee decided that the proposal for **“Aakash Riviera” Mix Use Development, Jamshedpur Residential and Commercial complex of M/s Aakash India Projects and Builders Pvt. Ltd. at Vill : Doba and Kapali, Tehsil : Chandil, Dist : Saraikela-Kharsawan** be y recommended for consideration of SEIAA for grant of EC. The other various conditions for grant of EC is enclosed herewith as **Annexure - V**.

10. Karnodih Stone Deposit of M/s Karma Baba Stone Works at Vill : Karnodih, Thana : Sariya, Dist : Giridih (1.08 Ha).

(Proposal No. : SIA/JH/MIN/41618/2019)

This is a Stone Mining Project with an area of 1.08 Ha [Khata No. -15, 24, 34 & Plot No.- 1420 (P), 1424 (P), 1425 (P). The latitude and longitude of the project site is 24°12'35.13"N to 24°12'37.44"N & 85°47'36.91"E to 85°47'43.83"E The nearest railway station is Hazaribagh Road at a distance of 7 km and nearest airport is Ranchi at a distance of 110 km. Total water requirement is 2.50 KLD (Dust Suppression : 1.00 KLD, Green belt : 1.00 KLD, Domestic use : 0.5 KLD). Nearest water sources are mostly wells & Ponds situated in Karnodih. For drinking purpose water will be taken out by pumps.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve : 1,66,577 tonne

Probable Mineable Reserve : 16,281 tonne

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

1st Year : 18,954 tonne

2nd Year : 18,225 tonne

3rd Year : 16,038 tonne

4th Year : 17,010 tonne

5th Year : 16,646 tonne

The daily production as per Form-I is 64 tonne.

The indicated project cost is Rs 33.15 Lakh and a provision of Rs 0.90 Lakh has been indicated for Environment management.

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DFO, Wildlife Hazaribagh vide letter no. 1487, dated 30.07.2019 certified that the Wildlife Sanctuary Hazaribag is 28526 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Giridih East Division vide letter no. 4348, dated 02.12.2016 certified that the distance of notified forest is 264 m from proposed project site.

The CO, Sariya (Giridih) vide letter no. 871, dated 24.11.2016 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.

DMO, Giridih vide memo no. 529/M, dated 18.02.2017 certified that no other lease is exists within 500 m radius from proposed project site.

The project is mentioned in District Survey Report (DSR) of Giridih District.

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 **Karnodih Stone Deposit of M/s Karma Baba Stone Works at Vill : Karnodih, Thana : Sariya, Dist : Giridih (1.08 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

11. Shrachi Greens Project of M/s Shrachi Realty Pvt. Ltd. at Vill : Tamulia, Tehsil : Chandil, Dist – Saraikela-Kharsawan

(Proposal No. : SIA/JH/MIS/111338/2019)

Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000sq m and development area is less than 50 ha. The latitude and longitude of the project site is 22° 51' 01.01" N to 22° 50' 58.30" N and 86° 12' 00.05" E to 86° 11' 57.62" E.

Salient Features of the project :

Project Location

Plot No. – 761, 764, 766 to 772, 807 to 813, 816 to 830
Khata No. – 29, 64, 66, 156, 162 & 195
Village – Tamulia
Tehsil – Chandil
District – Saraikela Kharsawan

Design Consideration

Total Plot Area is 30835.02 Sq. m.

Total built up area is about 73535.84 sq m. The project is divided into following. broad components:

Phase – I

Tower 3 = 5202.51 m²
Tower 4 = 8219.07 m²
RH A = 2550.06 m²
Sub Total = 15971.64 m²

Phase – II

Tower 1	=6603.89 m ²
Tower 2	=6496.43 m ²
Tower 5	=4926.38 m ²
Tower 6	=6379.82 m ²
Tower 10	=6425.76 m ²
Podium	=5642.18 m ²
Tower 7	=4948.31 m ²
Tower 8	=4948.31 m ²
Tower 9	=4948.31 m ²
RH BT	=659.36 m ²
RH A	= 2833.40 m ²
BV A 05	=185.20 m ²
BV A 06	=214.99 m ²
SP 02	=134.51 m ²
SP 03	=134.51 m ²
SP 04	=163.27 m ²
SP 05	=163.27 m ²
SP 07	=165.40 m ²
Townhou04	=653.18 m ²
Club	=937.72 m ²
Sub Total	= 57564.20 m²

Grand Total (Phase – I + Phase – II) = 73535.84 m²

Power Supply

Power for the proposed project will be supplied by Jharkhand State Electricity Board. Maximum power demand for the proposed project is 1341 KVA which will be supplied by 4 transformers of 630 KVA capacity (each). Four number of DG sets of total capacity 1000 KVA (4x250 KVA) will be kept standby. HSD (low sulphur variety as per availability) fuel will be used for DG sets.

Water Supply

Water requirement for the proposed project will be met from the two bore wells. About 428 m³/day fresh water will be required, balance water requirement (333 m³/day) will be met from the STP treated effluent.

Water requirement during operation phase of the project is provided below:

Water Requirement Details

S.	Description	Water Demand
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No.		(m ³ /day)
A	Water Balance Demand	
1	Domestic Water Demand	713
a)	Portable Water Demand	428
b)	Flushing Water Demand	185
	Sub Total	613
	Total Water Available for Reuse	333
B	Utilization of Treated Effluent	333
1	Flushing	180
2	Total Treated Water	333
3	Total Effluent Available from STP	333
4	Balance Effluent (will be reused for plantation, street wash cleaning, etc. and remaining will discharged after obtaining the permission from the Municipal Corporation)	100
	Net Fresh Water Requirement	428

Fire Fighting System

Fire Fighting System will be designed in such a way to be efficient and cost effective in such a way to minimize the energy requirement. A centralized under-ground Water tank for one day water storage will be provided.

Adequate Fire Fighting System is proposed Wet Riser & Hydrant system to the building with the extra provision of sprinkler protection at each floor as per the NBC part IV.

Water Harvesting System

The rain water collected from the roof top (12135.32 m²), through the network of storm water drainage lines & conveyed to RWH system. RWH system shall consist of de-silting cum filter chamber, and pits are designed to store 30 minutes peak hour rainfall to prevent flooding in the complex. Pits will be provided considering 30 minutes retention time. Adequate number of water harvesting pits will be proved for rain water recharge within the project premises for roof top area, Water harvesting diagram is provided.

Sewage Treatment Plant

Sewage treatment plant will be provided to treat the waste water generated. The capacity of the treatment plant will be 350 KLD. About 333 KLD treated water will be available out of which about 169 KLD treated water will be used to meet the flushing requirement and 164 KLD treated water will be used for gardening, sprinkling, etc.

Solid Waste

Construction Stage :

Solid waste generated during construction phase will comprise mainly of construction waste such as used bags, concrete, tiles, etc. The construction debris generated will be reused within the site for various construction works to the possible extent and balance debris, if any, will be disposed of at

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suitable location. Empty cement bags and other packaging materials will be sold/disposed of suitably.

Generation of small quantity of municipal waste, i.e. 50 kg/day is also envisaged. It will be ensured that the generated waste will be sent to nearest designated waste storage bins.

Operation Stage:

Generation of solid waste from the facility will be approximately 0.1425 TPD including biodegradable wastes. Solid waste generated from other areas will be collected daily by the dedicated and trained housekeeping staff. Three bin systems will also be provided for collection of waste segregated at sources.

Non- recyclable wastes will be disposed of through authorized agency to municipal waste disposal site and recyclable waste will be sold to authorized vendors.

As Biodegradable (including horticulture) shall be handed over to authorized agency for treatment.

Sewage sludge

Sludge generated from the STP which will be used as manure for plants and surplus manure will be sold to the farmers.

Hazardous waste: About 20 liters/month of waste oil from DG sets will be generated this will be sold to authorized recyclers.

E Waste :

Generation of e-waste from the project, shall be negligible. E-waste will be stored at a designated place within premises and will be handed over to authorized agency.

Liquid Effluent

Construction Stage:

During construction phase, liquid effluents shall be generated by the labour/workers at site.

Wastewater generated at site construction site will contain suspended materials, and washings from various areas. Wastewater shall be collected in a separate basin and will be reused after primary treatment for sprinkling on roads.

Soak pits with septic tanks and bio toilets facilities will be provided at site during construction phase for labour and staff.

Operation Stage:

Maximum 333 KLD (including car washing, flushing, etc.) of domestic waste water will be generated from the proposed facility. This effluent will be treated in Sewage Treatment Plant (MBBR Technology based) of 350 KLD capacity within the site premises. The treated water from STP will be reused for flushing, horticulture and maintenance activities. Surplus treated water will be discharged in municipal drain with prior permission. Scheme of treatment is attached.

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DCF & Field Director, Elephant Project, Jamshedpur vide letter no. : 580, dated : 15.06.2019 certified that no National Parks situated within 10 Km radius of proposed project site, but there is a Wildlife Sanctuary within 10 Km radius of proposed project site.

CO, Chandil vide letter no. 883, dated 23.04.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari".

- i. The PP informed that this building project (total plot area 30835.02 sq.m.) commenced with Phase I (built up area of 15971.65 sq.m) in 2008-09, however it could not be completed & work was stopped since 2010 till date, as per the DC, Seraikela direction.
- ii. Presently, since the project's combined built up area of phase I & II is exceeding the threshold limit of 20,000 sq.m., the PP is seeking EC for Phase I & Phase II.
- iii. On perusal of documents submitted by PP, it was observed that the project site area was mutated vide a no. of mutation case no. 876/2009-10 etc., as per the CO, Chandil memo no. 511, 513, 514 & 712 dated 07.04.10, memo no. 480 dt. 25.03.10, memo no. 1069 dated 19.10.09, memo no. 1070 dt. 19.10.09. Later on, the proprietary right (Rights/title) certificate of the said builder Shrachhi Realty (Pvt) Ltd. issued by letter no. 1033 dt. 27.11.09 has been cancelled by DC, Seraikela. Hence, the right & title of the project site has to be clarified / establish by the PP clearly.
- iv. The PP has claimed that it has started construction of Phase I (built up area 15971.64 sq.m) earlier in 2009. However, the CO, Chandil vide letter no. 661 dt. 07.05.10 directed the PP to stop the construction work in the light of DC, Seraikela order no. 457 dt. 26.04.10.
- v. The map submitted by the PP shows that the building towers of so called Phase I & II are interspersed / intermingled. Besides, the PP has not submitted any documentary evidence like Govt. statutory permission or approval of plan to substantiate that Phase I & II of said project was in existence since its inception. It appear that the building project is a case of violation of EIA notification, 2006.

The SEAC observes that some clarifications have to be sought from the PP, which are as under :

- a. The PP have to clarify and establish that Phase I & II were designated right from the very inception of the project, with clear cut bifurcated area & its co-ordinates, corroborated by Govt. statutory approval / permission.
- b. Besides, they have to submit chronology of date of purchase, mutation, commencement of work, cancellation of proprietary right over the project area etc.
- c. EC application has been submitted by one Mr. Sanjeev Agarwal, Director of M/s. Shrachhi Realty Pvt. Ltd. The name of company/organisation has been mentioned as M/s DISPO DYECHEM Pvt. Ltd., U II. Legal status of the company has been mentioned as "Others". It is not clear who is the actual PP in the instant project. Clarification is required.
- d. Besides, the PP has to clarify the legal status of M/s. Shrachhi Realty Pvt. Ltd. vis-a-vis M/s DISPO DYECHEM Pvt. Ltd., U II with documentary evidence.
- b) One Mr. Shashi Bhushan has declared himself as authorised signatory of M/s Shrachhi Realty Pvt. Ltd. The validity of self-declared affidavit as authorised is not admissible. Clarification required.

- c) HFL of the river & extent of submergence of area near project site to be provided.
- d) Fire department's letter no. 2407/Tech dt. 31.08.19 does not mention plot no. 768.
- e) Drawings have been provided which are without any title, numbers, coordinate system & not plotted on contour plan. No section drawing are provided. All provided drawings are not legible for proper appraisal of the project, all drags on proper coordinate system with minimum A-1 size to be provided. In addition, contour drawing for the proposed site to be provided.
- f) Water bodies, streams, natural barriers to drainage like highways road embankments, other waterways, culverts etc. in 500 m area beyond project boundary to be provided marking all physical features like levels, slope, contours etc. for proper appraisal.
- g) Details of buildings to be dismantled to be specified along with their location, quantum of generation of debris due to demolition.
- h) Copy of approved Building plan to be provided to examine whether the built up area & plot area for which EC has been sought matches with each other.
- i) Quantification of excavated earth work to be provided.
- j) RWH pits to be designed with 60 minutes retention period to avoid flooding occurring during peak rainfall & according numbers of pits shall be revised.

On submission of the proper replies & documents, the committee (SEAC) will examine further.

12. Construction (including structural design) of 665 dwelling units in 19 number of G + 6 blocks (19 Blocks with 35 dwelling units each) at Mohanpur, Deoghar under Pradhan Mantri Awas Yojna (urban) (Package - E) of Deoghar Municipality Corporation at Plot No. : 646, Khata No. : 58, Village : Rampur, Tehsil : Mohanpur, District : Deoghar

(Proposal No. : SIA/JH/MIS/119413/ 2019)

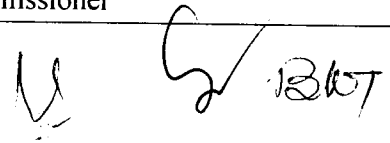
Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000sq m and development area is less than 50 ha. The latitude and longitude of the project site is 24° 29' 40.61" N to 24° 29' 38.88" N and 86° 43' 38.82" E to 86° 43' 38.91" E.

Salient Features of the project :

Item	Details
Project Name	Construction (including structural design) of 665 dwelling units in 19 number of G + 6 blocks (19 Blocks with 35 dwelling units each) at Mohanpur, Deoghar under Pradhan Mantri Awas Yojna (urban) (Package - E)
Project Proponent	Name of the applicant: Deoghar Municipal Corporation Address : Court Rd, Williams Town, Deoghar, Jharkhand 814112 Name : Ashok Kumar Singh Designation : Municipal Commissioner

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	Mobile No. : 9470969585 E-mail : municipality@yahoo.com
Location	Plot No. - 646 Khata No. - 58 Village - Rampur Tehsil - Mohanpur District - Deoghar State - Jharkhand
Type of Project	Residential Complex for Economic Weaker Section
Total Plot Area	20233.01 Sq. m.
Built - Up Area	28436.08 Sq. m.
Community Area	201.94 Sq. m.
Ground Coverage	3855.92 Sq. m.
Road & Pavements	5571.92 Sq. m.
Green Belt	2868.479 Sq. m.
Number of Blocks / Flats	8 Blocks with G+6 floors, each floor comprising of 12 flats.
Building Height	22.40 m
Road Width	Approach Road 12.20 m.
Parking Facilities	2208.44 Sq. m. (including 1690.69 Sq. m for Car & 517.75 Sq. m for two wheelers)
Power Requirement	925.86 KW
Source of Power	JSEB
Water Requirement	Total Water Requirement - 435 KLD
Water Source	Municipal Supply System
Estimated Populated to step-in	3990 persons
Project Cost	Rs. 448156800 /-
Connectivity	Approach road to be constructed to connect to exiting road.

Sewage Treatment and Reuse:

The details of quantity of sewage, sewage collection, treatment, reuse and disposal are given in the Table below :

Sewage Quantity, Treatment, Reuse & Disposal

Quantity of sewage	230 KLD
Septic Tanks	130 KLD sewage from toilets collected in septic tank.
Soak Pits	100 KLD from kitchen & bathroom shall be taken to soak pit.

Solid Waste Management

Solid wastes generated from operation phase are given in Table below. About 2420 Kg / day of solid wastes are likely to be generated due to the proposed project.

Waste	Quantity (Kg / Day)	Treatment Method
Organic	969 Kg	Sent to local body
In-organic	145 Kg	Sent to local body

The solid waste generated in residential units will be collected as per requirement of Municipal Corporation rules and will be collected by Municipal Authorities for final disposal.

DFO, Deoghar Division vide letter no. – 2086, dated – 06.09.2019 & stating that there is no Forest within 250 m radius of proposed project site & No-Mining Zone is moreover 10 Km from proposed project site.

DFO, Hazaribagh Wildlife vide letter no. –2168, dated – 10.10.2019 & stating that no Wildlife Sanctuary, Eco-Sensitive Zone & National Parks situated within 10 Km radius of proposed project site.




CO, Mohanpur vide letter no. : 736, dated : 30.09.2019 has mentioned the plot no. of the project is not recorded as “Jangle Jhari” in R.S. Khatiyani & Register II.

PP and the consultant presented the project and following documents / clarifications requires to be submitted -

- i. Proper DFO certificate.
- ii. In the building plan no facility of lift is provided keeping the facility of lift & Gen Set be included.
- iii. Sanction of Airport Authority of India be submitted.
- iv. Waste estimation & disposal method be submitted.
- v. In communication of Secretary, UDD, GoJ, vide Sanchika no-07/NPN/PMAY-(HFA)/01/2015 261 Dated 28-02-2018 addressed to AG, Jharkhand, Ranchi, it is stated in clause no-7, that the project implementation for this project of 665 EWS units, project cost 50.92 crores will be M/S JUIDCO LIMITED. This implies that M/S JUIDCO should be the PP. But from the project proposal has been submitted by M/S DEOGHAR MUNICIPAL CORPORATION This is a contradiction & clarification is required.
- vi. There is a contradiction in the proposal in the number of blocks & units per blocks proposed to be constructed. It is mentioned at one place that the project will be developed in one phase, No. of Block – 8 No, Units in each Floor 12 Units in G+ 6 Floors. But in Form 1, it is mentioned that Construction of 665 dwelling units in 19 number of G + 6 blocks (19 Blocks with 35 dwelling). PP to clarify the above & correct the document.
- vii. In Conceptual plan Clause No 9.0 under “Land Environment”, it is mentioned that Total Plot Area : 20233.01 Sq. m (5 ACRES), Ground Coverage : 3855.92 Sq. m & Parking area : 2208.44 Sq. Earthwork estimated Quantity is mentioned as 2,20,717 cubic metre in APPENDIX 1, FORM-1. On page 32, clause 1.6, again it is stated that about 220717 m³ of soil excavation is required for foundations. This, therefore, implies that the depth of Excavation to generate the above quantity of Earth work with ground coverage of 3855.92 sqm would be approx. = $220717 \text{ m}^3 \div 3855.92 \text{ m}^2 = 57.24 \text{ m}$, i.e. over 50m depth, which is not feasible. It appears that the quantities indicated are wrong.
- viii. In clause 1.6 of Appendix-II, it is stated that 1,50,000 m³ of earth will be used for backfilling and the balance 70717 m³ shall be used in road substructure, landscaping, parks, parking, etc. These Estimated quantities are wrong & belong to some other project. The PP to confirm with computational detail.
- ix. In Appendix 2, clause 1.2, it is stated that “The existing terrain is retained. Cutting and filling is required.” Not understood. PP to clarify ?

- x. The Town's road with levels, width & other geometric details from where the entries/exits to & from the premises are being provided shall be indicated in the drawing with all details like levels, width of pathways for pedestrian etc. PP may consider providing setback at all Entry/Exit gates to the Colony, so that traffic flow in the connecting main road outside Housing Colony is unaffected.
- xi. Single entry & exit to the colony appears to have been provisioned. For a population of 7500 persons plus visitors, staff etc, in case of emergency like fire & other disaster situation, provision of a second entry & exit may be explored.
- xii. In 2.7, AppendixII, , for calculating Rain water from roof tops , an area of 9425.sqm, ie MORE THAN double of the GROUND COVERAGE AREA has been considered. It appears that either the ground coverage area or the roof area is not correct.. Computation details of GROUND COVERAGE AREA & ROOF AREA, SUPPORTED BY THE DIMENSIONED DRAWING TO BE PROVIDED TO VERIFY THE SAME.
- xiii. Rain water harvesting Pits with 15 minutes Retention Time has been considered, which is quite low & hence will be quite prone to area flooding. Capacity of Pit shall be calculated considering 60 MINUTES STORAGE.
- xiv. Freeboard shall be considered for the pit in its capacity calculation. Numbers of pits on the above consideration shall accordingly be increased & location with co-ordinates shall be shown on the drawing. The plan & Elevation of a typical Pit shall be shown in the drawing.
- xv. In clause no 2.1, Water Environment, it is stated that The daily requirement of water will be 435 KLD. The source of water is from Municipal Supply System. The sewage of 130 KLD generated from flushing shall be taken to septic tanks. The waste water from kitchen & bathroom will be 100 KLD and taken to soak pits. NO MENTION ABOUT STP is there ?
- xvi. Five unsigned, unnumbered, two of which showing layout without any title , sketches have been submitted, which are not legible. Neither any cross section drawing nor any mention of Finished terrace level is there on the drawings.. Dimensioned layout plan of the proposed Building Complex superimposed on the Contour plan drawn on at least scale of 1: 500 having proper coordinate system in A0 size showing all connecting dimensions, overall dimensions from boundary wall to buildings/units to boundary wall, all road widths, drainage & sewerage need to indicated to examine the sufficiency of distances between units, showing all details, proposed, road, drain, sewer line, RWH Pits , finished Terrace level, open area etc.
- xvii. A few cross-sections through full length & full width showing units/buildings (from original virgin ground level upto only first floor level), road, drain, sewer lines, boundary wall etc on a magnified scale in at least A0/A1 drawing to be provided.
- xviii. Layout plan of Boreholes plotted on proper coordinate system indicating the ground RLs & co-ordinates of all the boreholes plotted on the Contour plan to be provided. Complete soil investigation report having Bore logs of all the Bore holes. Geotechnical report should bear clear recommendation for foundation type to be adopted. . Highest water table during monsoon to be provided. During Soil investigation report, water table observed in all the boreholes also to mentioned.
- xix. In clause 1.7 , Appendix-II, it is stated that. the sewage generated will be disposed through tankers. The sewage generated will be disposed through septic tank & soak pit.The PP to clarify ?

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- xx. In clause 1.7, For construction workers, it is mentioned that toilets will be provided with septic tank and soak pits for sewerage treatment purpose needs clarification if any mobile STP has been considered or not.
- xxi. Top soil excavated during construction needs to be stored in a designated place on the lower slope of plot (away from working area), with protective support wall so that these do not get washed away towards lower contours. This soil shall be used in landscape/horticulture etc . Drawing should show location with coordinate. Drawing to all indicate location of Covered Storage Yard for storage of Construction debris, Location of proposed RWH Pits with proper coordinate etc
- xxii. To mention that Bituminous & other hazardous materials shall be secured so that they should not leach into ground water.
- xxiii. Documentary evidence that .Building plans sanctioned by.Deoghar Municipal Corporation/submitted to DMC is for Building permission for the entire proposed built up area as mentioned in the proposal over the 5.0 Acre plot .
- xxiv. Approval of competent authority for Structural stability of building to Earthquake as per IS 1893 & other related BIS codes to be furnished. Adequacy of Fire fighting equipment etc as NBC & Protection measures from lightening etc as per BIS codes to be specified. Earhquake design related BIS Code mentioned in the document should include IS 1893 & Ductile detailing code.(30)
- xxv. PP to consider providing setback at gates to Building Complex, by about 3m to 5m from edge of road so that traffic flow in the connecting road outside Building Complex is unaffected.

On submission of the proper replies & documents, the committee (SEAC) will examine further.

13. Jokmari Stone Deposit of M/s Jitendra Kumar Gupta at Mouza : Jokmari (Guthi Beda), P.S. : Borio, Dist : Sahebganj (2.869 Ha)

(Proposal No. : SIA/JH/MIN/ 43873 /2019)

This is a Stone Mining Project with an area of 2.869Ha [J.B. No. : 58, 17, 07, 38, 45, Plot No.: 242, 243, 244 (P), 245, 246, 247]. The latitude and longitude of the project site is 25°13'51.03"N to 25°14'01.06"N and 87°35'06.98"E to 87°35'17.43"E. The nearest railway station is Karamtoal at a distance of 4.23 km and nearest airport is Kolkata at a distance of 300 km. Total water requirement is 9.5 KLD. Water will be drawn from nearby villages.

The details of mine capacity as per Approved Mining Plan are

Proved Mineable Reserve	:	7,01,823 tonne
Probable Mineable Reserve	:	7110 tonne

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

1 st Year	:	45,006 tonne
2 nd Year	:	45,072 tonne

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3 rd Year	:	45,060 tonne
4 th Year	:	45,045 tonne
5 th Year	:	45,012 tonne

The daily production as per Form-I is 150 tonne.

The indicated project cost is Rs 90 Lakh and a provision of Rs 3.96 Lakh has been indicated for Environment management.

DFO, Wildlife Hazaribagh vide letter no. 1598, dated 09.08.19 certified that the Udhwa Lake Bird Sanctuary is 32610 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project is not situated in any ESZ.

The DFO, Sahebganj Division vide memo no. 1933, dated 20.10.17 certified that the distance of notified forest is 570 m from proposed project site.

The CO, Mandro vide mmeo no. 772, dated 10.08.19 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. 255, dated 27.01.18 certified that altogether total mining in the area is less than 5 ha in the radius of 500 m.

The project is mentioned in District Survey Report (DSR) of Sahebganj District.

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 **Jokmari Stone Deposit of M/s Jitendra Kumar Gupta at Mouza : Jokmari (Guthi Beda), P.S. : Borio, Dist : Sahebganj (2.869 Ha)** be recommended for consideration of SEIAA for grant of EC. The various conditions for grant of EC is enclosed as **Annexure - I**.

Day 3 : October 25, 2019 [Friday]

• **Discussion on matter related to :**

1. **"Smart City Project" of M/s Ranchi Smart City Corporation Ltd. at Vill. Latma, Jaganathpur, Kalyanpur, Kachnartoli, Hatia, Tehsil- Namkum, Ranchi.**

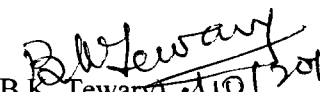
PP had requested to for representation by the consultant of technology provider and engineering designer regarding the issue of the use of SBR technology to be adopted in smart city project of Ranchi in place of MBBR technology as suggested by SEAC, Jharkhand.

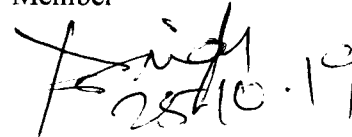
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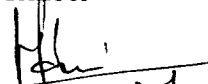
The presentation and discussion were held and the committee advised the PP to follow the 74th MoM of SEAC dated 10-11-12 July 2019 which as follows.


“ The committee is of the view that the standards of treated sewage has been prescribed by CPC. Thereafter PP should adopt the sewage treatment technology at to comply with prescribed standards best suited to him.”

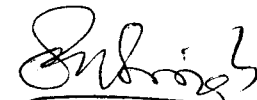
The meeting concluded with thanks to all present.

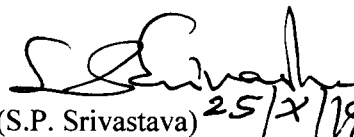

(Dr. B.K. Tewary) 25/10/2019
Member


(Y.K. Singh) 25/10/19
Member


(Dr. V.P. Sinha) 25/10/2019
Member


(Om Prakash)
Member Secretary


(Dr. R.N. Singh)
Member


(S.P. Srivastava) 25/10/19
Member

(R.V. Singh)
Member

(K.P. Bhawsinka)
Chairman

A. Specific Conditions

- i. The environmental clearance is subject to period of lease of the mine by the Department of Mines, Government of Jharkhand to PP and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
- ii. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance.
- iii. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / National Green Tribunal / MOEF Guidelines applicable to Minor Minerals.
- iv. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any endangered fauna occurs / is found in the Project area). No damage is to be done to the fauna in general and endangered species in particular, if found in ML area (as mentioned in various schedules). In such case they should be given protection, capture alive with the help of the subject expert and transfer them or handing over them to the concerned authorities. Conservation Plan, if applicable has to be adhered to.
- v. The mining operations shall be restricted to ground above water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board shall be obtained. Benches height and slope shall be maintained as per approved Mining Plan. The Mining Plan has to be got approved by concerned authorities as per IBM or equivalent agencies. Safety measures shall be adopted in line with DGMS Guidelines.
- vi. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
- vii. The project proponent shall ensure that no natural watercourse and / or water resources shall be obstructed / diverted due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating / passing through the mine lease area during the course of mining operation.
- viii. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used by spreading on the land reclamation and plantation.
- ix. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
- x. Catch drains and siltation ponds of approved size to contain silt & water and its location shall be constructed around the mine working, sub-grade and mineral dump(s) to prevent run off of water and flow of sediments directly into the nearby agricultural fields, and other water bodies. The water so collected should be utilized for watering the haul roads, green belt development etc. A periodical report shall be sent. The drains shall be regularly desilted particularly after the monsoon and maintained properly.

- xi. Dimension of the retaining wall at the toe of the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
- xii. Greenbelt of approved width shall be developed all along the length of mine lease area and haul roads. The Project proponent shall do adequate no at least 50 bamboo gabion plantation each year and maintain it for the life of the mine along the transport road and vacant space, preferably along the periphery of mining lease. Fast growing and local species will be planted.
- xiii. Effective safeguard measures such as regular water sprinkling shall be carried out in the identified critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling as per approved plan shall be carried out on haul roads which should be made pucca as per approved specification of Govt. of Jharkhand with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- xiv. The project proponent shall implement approved conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
- xv. The project proponent shall if required, obtain necessary prior permission/NOC from the competent authorities for drawl of requisite quantity of water required from the source for the project.
- xvi. Suitable rainwater harvesting measures shall be planned and implemented in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
- xvii. Vehicular emissions shall be kept under control by regular repairing of transport road and regular air quality monitoring. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of stone / sand outside the mine lease area shall be carried out after the sunset.
- xviii. No blasting shall be carried out after sunset. Blasting operation shall be carried out only during daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- xix. Drilling shall either be operated with the dust extractors or equipped with water injection system.
- xx. Effective safeguard measures shall be taken to control fugitive emissions so as to ensure that RPM (PM10 and PM 2.5) levels are within prescribed limits.
- xxi. Pre-placement medical examination and periodical medical examination of the workers engaged in the project conducted by a Registered Medical Officer shall be carried out and records maintained.
- xxii. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
- xxiii. Provision shall be made for the housing of construction labour at a suitable place away from the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets / septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

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- xxiv. Proper Safety measures as per statutory requirement shall be implemented around the mined out Pit prior to closure of site.
- xxv. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
- xxvi. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein.
- xxvii. The Project Proponent shall submit six monthly report on the expenditure incurred on environmental management plan submitted by them.
- xxviii. Since blasting and mining on Hillock / Rock out crop may also be carried out, suitable scheme for access / ramp to the highest elevation with gradient shall be submitted for approval from competent authorities.
- xxix. Approved devices for dust suppression shall be installed.

B. General conditions

- i. No change in mining technology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
- ii. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
- iii. The Project proponent shall make all internal roads pucca as per approved specification of Govt. of Jharkhand and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
- iv. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
- v. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
- vi. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
- vii. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
- viii. Personnel working in dusty areas should be provided with protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Detailed report shall be sent to Pollution Control Board periodically.
- ix. Dispensary facilities for First Aid shall be provided at site.
- x. A separate environmental management / monitoring cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.

- x. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover) or at least Rs 1 per ton whichever is higher.
- xii. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
- xiii. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA / JSPCB and to its concerned Regional Office.
- xiv. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO₂ ,NO_x (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
- xv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
- xvi. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,as amended subsequently ,shall also be put on the website of the company along the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
- xvii. All statutory clearances shall be obtained before start of mining operations.

C. Other points

- i. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- ii. The Environmental Clearance accorded will be valid for the period of lease of the mine, till the PP does not increase production rate and alter lease area during the validity of Environmental Clearance.
- iii. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
- iv. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the

Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.

- v. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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Annexure - II

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

- i. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- ii. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- iii. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- iv. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- v. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- vi. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- vii. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
- viii. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- ix. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

- x. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- xi. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- xii. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- xiii. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- xiv. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- xv. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- xvi. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- xvii. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- xviii. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

- xix. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- xx. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- xxi. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
- xxii. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
- xxiii. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- xxiv. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.

- xxv. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- xxvi. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- xxvii. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- xxviii. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- xxix. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- xxx. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- xxxi. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- xxxii. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

- xxxiii. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- xxxiv. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- xxxv. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- xxxvi. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- xxxvii. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- xxxviii. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- xxxix. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- xl. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- xli. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- xlii. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- xliii. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- xliv. Besides the above, the below mentioned general points are also to be followed :-

a) Executive Summary of the EIA/EMP Report

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- b) All documents to be properly referenced with index and continuous page numbering.
 - c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.
 - e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF& CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
 - i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
 - j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
- xlv. After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
- xlvi. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M) , dated 12.01.2017.

Annexure - III

A. Specific Conditions

- i. The Environmental clearance is subject to grant of Mining Lease and will be co-terminus with the mining lease period.
- ii. As per EIA notification, 2006 Gram Sabha is a major component of EC for this category of project. In all these projects Gram Sabha report has not been submitted. The EC of these cases is being recommended subject to **submission of the Gram Sabha consent.**
- iii. The **mining work** will be open-cast and only **manual method.**
- iv. The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed. Also PP shall ensure that stipulations mentioned in MoEF OM No.- J-13012/12/2013-IA-II(I), dated- 24th December, 2013 and SEIAA, Jharkhand guideline dated 07.05.2013 are adhered to.
- v. For the green belt development in the mining area / transport road sides / other land area saplings available in the forest nursery / private nursery should also be considered for the mentioned purpose instead of the Trees / Plants mentioned in the PFR / Presentation copies of the proposed mine.
- vi. No sand mining activities will be carried out in upstream or downstream within 500 m of railways, road, bridge, water intake, wires & notified aquarium or breeding places.
- vii. Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road etc and shall submit report to SEIAA, JSPCB and DMO after every monsoon i.e. by end of November (30th) of that year. Also after receding of flood / water (after monsoon) a study has to be conducted in mining lease area and list of flora & fauna is to be prepared and submit report to SEIAA, JSPCB and DMO.
- viii. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any fauna occurs / is found in the Project area).
- ix. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
- x. The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left un-worked (Non mining area), distance from the bridges etc. It shall be ensured that no mining shall be carried out during the monsoon season. Due consideration will be given to points raised in Supreme Court judgement and SEIAA guidelines.
- xi. The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area shall not be affected.

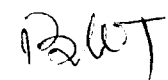
- xii. The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
- xiii. Solid waste material viz., gutkhapouchs, plastic bags, glasses etc. to be generated during project activity will be separately stored in bins and managed as per Solid Waste Management rules.
- xiv. Natural /customary paths used by villagers should not be obstructed at any time by the activities proposed under the project. Transportation of sand is to be carried out with consent of Villagers and Trucks are to be covered with Tarpaulin.
- xv. Local flora may be planted in the Core Zone of the Mining Lease area.
- xvi. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xvii. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals.
- xviii. PP shall maintain minimum distance from Reserved / Protected Forests as stipulated in applicable guidelines.
- xix. There shall be no external dump(s). Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and its nearest Regional Office on six monthly basis.
- xx. The project proponent should implement suitable conservation measures to augment ground water resources in the area in consultation with the Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
- xxi. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
- xxii. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- xxiii. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
- xxiv. A final mine closure Plan along with corpus fund duly approved by Competent Authority shall be submitted to the Jharkhand State Pollution Control Board, Ranchi and to concerned DMO in advance of final mine closure for approval.
- xxv. The project proponent shall obtain Consent to establish and Consent to Operate from the Jharkhand State Pollution Control Board, Ranchi and effectively implement all the conditions stipulated therein
- xxvi. At least 1.5 meter from the river bed sand should be kept intact and mining can be done above this cushion of sand considering the geological condition of Chhotanagpur plateau.

B. General conditions:

As per the latest guidelines of MoEF & CC regarding Sustainable Sand Mining Management Guidelines 2016 –

- i. EC is subject to having valid lease and all statutory clearance as applicable.
- ii. Monitoring Committee including Local Panchayat to check on traffic due to transportation and submit an annual report on the same.
- iii. To maintain safety and stability of Riverbanks i.e. 3 meter or 10% of the width of the River whichever is more will be left intact as no mining zone.
- iv. Ultimate working depth shall be up to 3.0 m from Riverbed level and not less than one meter from the water level of the River channel whichever is reached earlier.
- v. The directions given by the Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLP(C) Nos.19628-19629 of 2009] and order dated 05.08.2013 of the Hon'ble National Green Tribunal in application No.171/2013 may be strictly followed.
- vi. All the provisions made and restrictions imposed as covered in the Minor Mineral Rule, shall be complied with, particularly regarding Environment Management Practices and its fund management and Payment of compensation to the land owners.
- vii. District level Survey Report should be prepared and area suitable for mining and area prohibited for mining be identified.
- viii. No River sand mining be allowed in rainy season.
- ix. To submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity/ production levels shall be decreased / stopped accordingly till the replenishment is completed.
- x. In River flood plain mining a buffer of 3 meter to be left from the River bank for mining.
- xi. In mining from agricultural field a buffer of 3 meter to be left from the adjacent field.
- xii. Mining shall be done in layers of 1 meter depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
- xiii. No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.
- xiv. No blasting shall be resorted to in River mining and without permission at any other place.
- xv. Depending upon the location, thickness of sand, deposition, agricultural land/Riverbed, the method of mining may be manual, semi-mechanized or mechanized; however, manual method of mining shall be preferred over any other method.
- xvi. Mining should be done only in area / stretch identified in the District Level Survey Report suitable for mining and so certified by the Sub- Divisional Level Committee after site visit.
- xvii. Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.

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- xviii. The top soil in case of surface land mining shall be stored temporarily in an earmarked site and concurrently used for land reclamation.
- xix. The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.
- xx. For each mining lease site the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.
- xxi. The State / District Level Environment Committee should use technology like Bar Coding, Information and Communications Technology (ICT), Web based and ICT enabled services, mobile SMS App etc. to account for weight of mineral being taken out of the lease area and the number of trucks moving out with the mineral.
- xxii. There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions under the Minor Mineral Concessions Rules framed by the State Government.
- xxiii. Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit.
- xxiv. Restricted working hours Sand mining operation has to be carried out between sun rise to sun set.
- xxv. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly.
- xxvi. Air Pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.
- xxvii. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Wheel washing facility should be installed and used.
- xxviii. The mining operations are to be done in a systematic manner so that the operations shall create a major visual impact on the site.
- xxix. Restoration of flora affected by mining should be done immediately. Twice the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder should plant and maintain for lease period at least 50 gabion plantation in area near lease and road connecting lease area.
- xxx. No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made thereunder.
- xxxi. Protection of turtle and bird habitats shall be ensured.
- xxxii. No felling of tree near quarry shall be allowed. For mining lease within 10 km of the National Park / Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wild Life (NBWL) have to be obtained as per the Hon'ble Supreme Court order in I.A. No. 460 of 2004.

- xxxiii. Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.
- xxxiv. Removal, stacking and utilization of top soil in mining are should be ensured. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.
- xxxv. The EC should stipulate conditions for adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures.
- xxxvi. Use of oversize material to control erosion and movement of sediments.
- xxxvii. No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope.
- xxxviii. No extraction of sand in land slide prone areas shall be carried out.
- xxxix. Controlled clearance of riparian vegetation to be undertaken
 - xl. Site clearance and tidiness is very much needed to have less visual impact of mining.
 - xli. Dumping of waste shall be done in earmarked places as approved in Mining Plan.
 - xl.ii. Rubbish burial shall not be done in the Rivers.
 - xl.iii. The EC holder shall take all possible precautions for the protection of environment and control of pollution.
 - xl.ii. Effluent discharge should be kept to the minimum and it should meet the standards prescribed.
 - xl.v. Mining activities shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical, and archaeological importance.
 - xl.vi. Vehicles used for transportation of sand are to be permitted only with of fitness and PUCCertificates.
 - xl.vii. Junction at take-off point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.
 - xl.viii. Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
 - xl.ix. No stacking allowed on road side along National Highways.
 - l. The Project Proponent shall undertake phased restoration, reclamation and rehabilitation of land affected by mining and completes this work before abandonment of mine.
 - li. Site specific plan with eco-restoration should be in place and implemented.
 - lii. Health and safety of workers should be taken care of.
 - liii. The Project Proponent shall make arrangement for drinking water, first aid facility (along with species specific anti-venom provisioning) in case of emergency for the workers.

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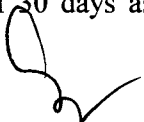
- liv. The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.
- lv. Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained: also, Occupational health check ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for labour for ensuring good occupational environmental for mine workers would also be adopted.

C. Other points

- i. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- ii. The Environmental Clearance accorded shall be valid for the period of lease of the mine, the PP does not increase production rate and alter lease area during the validity of Environmental Clearance.
- iii. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
- iv. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
- v. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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Annexure - IV

A. Specific Conditions

- i. The environmental clearance is subject to grant / renewal of mining permit by the Department of Mines, Government of Jharkhand to PP Latest Minor Mineral Concession Rules of Govt. of Jharkhand and all other Statutory Conditions as imposed by various agencies / District Authorities are complied with.
- ii. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. Minimum distance shall be maintained from Reserved / Protected Forest as stipulated in SEIAA Guidelines.
- iii. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India / MOEF Guidelines applicable to Minor Minerals / Brick Earth Mining.
- iv. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project (in case any fauna occurs / is found in the Project area). No damage is to be done to fauna if found in ML area (as mentioned in various schedules). In case found they should be given protection, collected alive with the help of the expert and transferred them or handing over them to the concerned authorities.
- v. The activity associated with borrowing / excavation of 'brick earth' and 'ordinary earth' for purpose of brick manufacturing, construction of roads, embankments etc. shall not involve blasting.
- vi. The borrowing / excavation activity shall be restricted to a maximum depth of 2 m below general ground level at the site. However – excavation shall not intercept with ground water level at site.
- vii. The borrowing / excavation activity shall not alter the natural drainage pattern of the area.
- viii. The borrowing / excavated pit shall be restored by the project proponent for useful purpose (s).
- ix. Appropriate fencing all around the borrowed / excavated pit shall be made to prevent any mishap.
- x. Measures shall be taken to prevent dust emission by covering of borrowed / excavated earth during transportation.
- xi. Safeguards shall be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing / excavation of earth.
- xii. Workers / labours shall be provided with facilities for drinking water and sanitation.
- xiii. A considerable space from mine pit shall be left from the boundary of adjoining field, having, minimum width of 5M.
- xiv. A minimum distance of 15 m from any civil structure shall be kept from the periphery of any excavation area.
- xv. The project proponent shall ensure that no natural watercourse and / or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the first order and the second order streams, if any emanating / passing through the mine lease area during the course of mining operation.

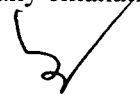
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- xvi. The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- xvii. Greenbelt shall be developed all along the mine lease area and haul roads. The Project proponent shall do tree plantation in at least 33% of the space, preferably along the periphery and in vacant space. Fast growing and local species will be planted. In case land is not available within the lease area or it is not possible to plant trees due to nature of land then PP will do necessary afforestation at other places / land.
- xviii. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads which should be made pucca with suitable water drainage arrangements. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- xix. The project proponent should implement suitable conservation measures to augment ground water resources in the area as per guidelines of Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
- xx. The project proponent shall if required, obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.
- xxi. Suitable rainwater harvesting scheme shall be planned and implemented as per guidelines of Ground Water Directorate, Government of Jharkhand / Central Ground Water Board.
- xxii. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.
- xxiii. Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10 and PM 2.5) levels are within prescribed limits.
- xxiv. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- xxv. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna.
- xxvi. Provision shall be made for the housing of labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, septic tanks, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- xxvii. Proper safety measures as per statutory requirement are to be implemented around the mined out Pit prior to closure of site.
- xxviii. A final mine closure scheme plan of mine pit shall be submitted to concerned DMO in advance of final mine closure for approval.
- xxix. The excavated earth – by such Brick mining pit owner – shall be supplied only to owners of manufacturing of bricks –having “Consent to Operate” under the provision of section 25 and 26 of The water (prevention and control of pollution) Act, 1974 and under section 21 of The Air (prevention and control of pollution) Act, 1981.

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

B. General conditions

- i. No change in mining methodology and scope of working should be made without prior approval of the Statutory authorities / Department of Mines, Government of Jharkhand / Jharkhand State Pollution Control Board, Ranchi during the EC period.
- ii. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
- iii. The Project proponent shall make internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
- iv. The Project proponent shall maintain register for production and dispatch and submit return to the Board.
- v. The Project proponent shall not cut trees / carry out tree felling in leased out area without the permission of competent authority.
- vi. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
- vii. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- viii. Dispensary facilities for First Aid shall be provided at site.
- ix. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi. PP shall carry out CSR activities as per Government Guidelines (% of Profit / turnover).
- x. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
- xi. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi its concerned Regional Office and to SEIAA.
- xii. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO₂ ,NO_x (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a

convenient location near the main gate of the company in the company in the public domain.

- xiii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the project proponent.
- xiv. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the concerned Regional Office of JSPCB by e-mail.
- xv. All statutory clearances shall be obtained before start of mining operations.


C. Other points

- i. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- ii. The Environmental Clearance accorded will be valid for the period of lease of the mine, till the PP does not increase production rate and alter lease area during the validity of Environmental Clearance.
- iii. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
- iv. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
- v. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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PART A – GENERAL CONDITIONS

I. Pre- Construction Phase

- i. 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.
- ii. 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.
- iii. Adequate safety measures shall be adopted for the construction workers.
- iv. 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.
- v. Fencing of the project boundary before start of construction activities.
- vi. Use of energy efficient construction materials shall be ensured to achieve the desired thermal comfort.
- vii. Use of fly ash based bricks/blocks/tiles/products shall be explored to the maximum extent possible.
- viii. Lay out of proposed buildings and roads within premises etc. shall be made in such a way that it shall cause minimum disturbance to existing flora and fauna. Appropriate green belt shall developed to compensate the habitat loss of tree cutting (if any) from competent authority as per prevailing Act/Rules. The exotic species existing within the existing premises, if any, shall be protected. The greening programme shall include plantation of both exotic and indigenous species.
- ix. Dedicated pedestrian paths shall be provided along the proposed Buildings. Appropriate access shall be provided for physically challenged people in the Pedestrian Paths.
- x. The design of service roads and the entry and exit from the buildings shall conform to the norms & standards prescribed by the State Public Works Department.
- xi. The road system shall have the road cross sections for general traffic, exclusive ways for public mass transport (bus) system, pedestrian paths and ways, utility corridors and green strip.
- xii. Topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site. Balance top soil should be disposed at in planned manner for use elsewhere adequate erosion and sediment control measures to be adopted before ensuing construction activities.

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- xiii. Prior permission should be obtained from the competent authority for demolition of the existing structure, if any. Waste recycling plans including top soil should be developed prior to beginning of demolition and construction activity. The plans should identify wastes to be generated and designate handling, recycling and disposal method to be followed.
- xiv. Disposal of muck including excavated material during construction phase should not create any adverse effects in the neighbourhood and the same shall be disposed of taking the necessary precautions for general safety and health aspects.
- xv. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which should be in the vernacular language, informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority, Jharkhand and the same matter also be sent to Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Ranchi.
- xvi. Risk assessment study along with Disaster Management Plan (DMP) shall be prepared. The mitigative measures for disaster prevention and control shall be prepared and get approval from competent authority. All other statutory clearances/licenses/permissions from concerned State Governments Departments, Boards and Corporations shall be obtained for directions issued by Central Government/State Government, Central Pollution Control Board/Jharkhand State Pollution Control Board.
- xvii. Baseline Environmental Condition of Project area i.e. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples should be conducted and report should be submitted to State Environment Impact Assessment Authority (SEIAA), Jharkhand and Jharkhand State Pollution Control Board (JSPCB), Ranchi prior to start of construction activities.

II. Construction Phase

- i. It shall be ensured that the construction debris is properly stored on the site prior to disposal. Such requirements shall be made part of the contractor agreement.
- ii. All the top soil excavated during construction activities shall be stored for use in horticulture/landscape development within the project site. Proper erosion control and sediment control measures shall be adopted.
- iii. Earth material generated from excavation shall be reused to the maximum possible extent as filling material during site development. The construction debris and surplus excavated material shall be disposed off by mechanical transport through the Saraikela Municipal Corporation.
- iv. Disposal of muck, including excavated material during construction phase, shall not create any adverse effects on the neighbouring communities and shall be disposed off taking the necessary precautions for general safety and health aspects.

- v. Low Sulphur diesel generator sets should be used during construction phase. Diesel generator sets during construction phase shall have acoustic enclosures and shall conform to Environment (Protection) Rules, 1986 prescribed for noise emission standards.
- vi. 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.
- vii. Ambient noise levels shall conform to the standards prescribed by MoEF & CC, Govt. of India.
- viii. The protective equipment such as nose mask, earplugs etc. shall be provided to construction personnel exposed to high noise levels.
- ix. Construction spoils, including bituminous material and other hazardous materials including oil from construction equipment must not be allowed to contaminate soil/ground water. The dumpsites for such material must be secured so that they shall not leach into the ground water.
- x. Proper and prior planning, sequencing and scheduling of all major construction activities shall be done. Construction material shall be stored in covered sheds. Truck carrying soil, sand and other construction materials shall be duly covered to prevent spilling and dust emission. Adequate dust suppression measures shall be undertaken to control fugitive dust emission. Regular water sprinkling for dust suppression shall be ensured.
- xi. Use of Ready-Mix concrete is recommended for the project.
- xii. Accumulation/stagnation of water shall be avoided ensuring vector control.
- xiii. Regular supervision of the above and other measures shall be in place all through the construction phase so as to avoid disturbance to the surroundings.
- xiv. Water during construction phase should be preferred from Municipal supply.
- xv. All directions of the Airport Authority, Director of Explosives and Fire Department etc. shall be complied.
- xvi. Unskilled construction labourers shall be recruited from the local areas.
- xvii. Provisions shall be made for the integration of solar water heating system.
- xviii. Provision of vermin-composting for the biodegradable solid wastes generated from the proposed extension buildings as well as the large amount of biomass that shall be available from the tree plantation shall be made.
- xix. Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
- xx. Permeable (porous) paving in the parking areas, and walkways should be used to control surface runoff by allowing storm water to infiltrate the soil and return to ground water.
- xxi. All intersections shall be designed and developed as roundabouts.

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- xxii. All utility lines (electricity, telephone, cable, water supply, sewage, drainage, etc. shall be laid below ground level. Ducts shall be provided along and across the roads to lay the utility lines. Major trunk (water/sewerage) lines are to be laid along the utility corridor.
- xxiii. The road drainage shall be designed to enable quick runoff of surface water and prevent water logging.
- xxiv. 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.
- xxv. Rest room facilities shall be provided for service population.
- xxvi. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, should be conducted and report should be submitted on monthly basis to SEIAA, Jharkhand & Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi.

Water Body Conservation :-

- i. 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.
- ii. Improvement or rehabilitation of existing nallas (if any) shall be carried out without disturbing the ecological habitat.

III. Post Construction/Operation Phase

- i. The environmental safeguards and mitigation measures contained in the application shall be implemented in letter and spirit.
- ii. All the conditions, liabilities and legal provisions contained in the Environmental Clearance shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity. Ground water shall not be abstracted without prior permission from the competent authority.
- iii. The storm water management plan shall be implemented in such a manner that the storm water is discharged through an existing dedicated Storm Water Outfall only.
- iv. The height of the stack of the DG sets should be as per norms of Central Pollution Control Board (C.P.C.B.), New Delhi.
- v. Medical (First-Aid) facility must be provided for visitors & employees. Para-medical staff should be attached as Medical facility provider.
- vi. Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of trees shall be completed in the construction stage. The plantations shall consist of mixture of available

indigenous, fast growing and sturdy species of trees, shrubs and herbs. Preferential plantation of flowering trees with less timber and fruits value shall be carried out.

- vii. Two chambered container or two separate containers (one for recyclable wastes and other for all organic and compostable wastes) shall be placed at appropriate distance on the roadsides and inside the building. Covered dustbins/garbage collector in convenient places to collect the Municipal solid wastes shall be provided.
- viii. Proper composting / vermi-composting of municipal solid wastes shall be carried out. All municipal solid wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Municipal Solid Wastes (Management and Handling) Rules, 2000 (As amended).
- ix. The use of hand gloves, shoes and safety dress for all waste collectors and sorters shall be enforced.

IV. Entire Life of the Project

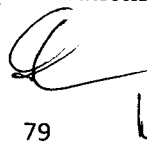
- i. The project proponent should implement Environmental Monitoring Programme as per details submitted in EMP.
- ii. No expansion/modification activity should be carried out obtaining prior Environmental Clearance as per EIA Notification 2006.
- iii. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stock Emissions & Testing of emission from DG sets should be conducted and report should be submitted on monthly basis to SEIAA, Jharkhand & JSPCB, Ranchi.

PART B- SPECIFIC CONDITIONS

I. Pre-Construction Phase

- i. Project Proponent should obtain prior consent to establish (NOC) under Section 25 & 26 of the Water (Prevention & Control of Pollution) Act' 1974 and under Section 21 of the Air (Prevention & Control of Pollution) Act' 1981 from State Pollution Control Board before start of construction activities.
- ii. It was also advised that CSR activity of the Project Proponent should be measurable and quantifiable, and it should be visible even after the completion of the project. The Project Proponent was also directed to deposit 10% of the CSR cost (2.5% of the total project cost). The security deposit is imposed to ensure the proper performance/implementation of the committed CSR activities.
- iii. Project Proponent should obtain prior permission for ground water withdrawal from CCWA/CGWB if applicable.
- iv. 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.

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- v. Use of energy efficient construction materials to achieve the desired thermal comfort shall be incorporated. The desired level of roof assembling “U” factor and insulation “R” value must be achieved. Roof assembling “U” factor for the top roof shall not exceed 0.4 watt/sq.m./degree centigrade with appropriate modifications of specifications and building technologies. The provisions of National Building Code 2005 shall be strictly followed.
- vi. Street/Corridor lighting shall be energy efficient. The High Pressure Sodium Vapour (HPSV) Lamps & Compact Fluorescent Lamps (CFL) along Building premises shall be provided. High intensity, high mast lights to be installed at few strategic points. Solar energy may be used for outdoor lighting.
- vii. Reduction of hard paving-onsite (Open area surrounding all buildings) and/or provision of shades on hard paved surfaces to minimize heat island effect and imperviousness of the site should be undertaken.
- viii. All proposed air/conditioned buildings should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency.
- ix. Monitoring of AAQ as per NAAQs 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG sets should be conducted, and reports should be submitted on monthly basis to State Pollution Control Board (SPCB).
- x. 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. Construction Phase

- i. All the conditions laid down in NOC issued by SPCB should be strictly complied with during entire construction cycle of the Project.
- ii. The water treatment plant shall be provided for treatment of water. The treatment shall include screening, sedimentation, filtration and disinfections. Appropriate arrangement shall be made for treatment and reuse of backwash water of filtration plant.
- iii. Project proponent shall provide adequate measuring arrangement at the inlet point of water uptake and at the discharge point for the measurement of water utilized in different categories and monitoring daily water consumption.
- iv. Regular water sprinkling shall be done all around the site to minimize fugitive dust emission during construction activities.
- v. Rain water harvesting structures should be provided as per submitted Plan.

III. Post Construction / Operation Phase

- i. Project Proponent should obtain prior consent to operate under Air Act, 1981 & Water Act, 1974 from State Pollution Control Board before commissioning of the project.

- ii. Water saving practices such as usage of water saving devices/fixtures, low flushing systems, sensor based fixtures, auto control walls, pressure reducing devices etc. should be adopted.
- iii. Water budget should be adopted as per the plan submitted in the supplementary Form I A & EMP.
- iv. All the generated domestic effluent should be sent to ETP/STP for treatment & further recycling & reuse.
- v. Treated water recovered from STP would be used for flushing the toilets, gardening purpose, make up water in air conditioning systems, etc. As proposed, Fluidized Bed Reactor (FBR) type sewage treatment plant should be installed. The Sewage Treatment Plant shall be ensured before the completion of Building Complex.
- vi. Rainwater from open spaces shall be collected and reused for landscaping and other purposes. Rooftop rainwater harvesting shall be adopted for the proposed Buildings. Every building of proposed extension project shall have rainwater-harvesting facilities. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter and oil and grease.
- vii. Municipal solid wastes generated in the proposed extension buildings shall be managed and handled in accordance with the compliance criteria and procedure laid down in Schedule- II of the Municipal Wastes (Management and handling) Rules, 2000 (As amended).
- viii. The standard for composting & treated leachates as mentioned in Schedule-IV of the Municipal Wastes (Management and handling) Rules, 2000 (As amended) shall be followed.
- ix. All hazardous wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Hazardous Wastes (Management and Handling) Rules, 1989 (As amended).
- x. Recycling of all recyclable wastes such as newspaper, aluminium cans, glass bottles, iron scrap and plastics etc. shall be encouraged through private participation. Project proponent shall take appropriate action to ensure minimum utilization of plastic carry bags and plastic small containers etc. within the proposed buildings shall be ensured.
- xi. Project proponent shall operate and maintain the sewage collection/conveyance system, sewage pumping system and sewage treatment system regularly to ensure the treated water quality within the standards prescribed by Ministry of Environment and Forests, Government of India.
- xii. Properly treated and disinfected (Ultra Violet Treatment) sewage shall be utilized in flushing the toilets, gardening purpose, make up water in air conditioning systems etc.
- xiii. Non-mixing of faecal matter with the municipal solid wastes shall be strictly ensured.
- xiv. Non-mixing of sewage/sludge with rainwater shall be strictly ensured.
- xv. Noise barriers shall be provided at appropriate locations so as to ensure that the noise levels do not exceed the prescribed standards. D.G. sets shall be provided with necessary acoustic enclosures as per Central Pollution Control Board norms.

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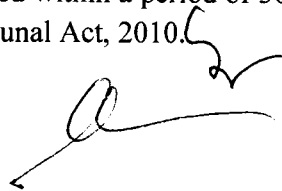
- xvi. Back up supply shall be based on natural Gas/cleaner fuel subject to their availability.
- xvii. The project proponent shall resort to solar energy at least for street lighting and water heating for Proposed Building Complex, gardens/park areas.
- xviii. During maintenance, energy efficient electric light fittings & lamps- low power ballasts, low consumption high power luminaries, lux level limiters & timers for street lighting shall be provided.
- xix. A report on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, "R" and "U" factors etc.
- xx. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG sets & Testing of Untreated & treated effluent samples of STPs should be conducted and report should be submitted on monthly basis to SPCB.

IV. Entire Life of the Project

- i. All the conditions laid down in NOC & consent to operate issued by SPCB should be strictly complied with during entire life cycle of the project.
- ii. Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG Sets & Testing of Untreated & treated effluent samples of STPs should be conducted and reports should be submitted on monthly basis to SPCB.
- iii. The project authorities shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPC rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- iv. The overall noise levels in and around the project area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules 1989 viz. 75 DBA (day time) and 70 DBA (night time).
- v. The project authorities shall provide requisite funds for both recurring and non-recurring expenditure to implement the conditions stipulated by SEIAA, Jharkhand with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- vi. Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of trees shall be completed in the construction stage. The plantations shall consist of mixture of available indigenous, fast growing and sturdy species of trees, shrubs. 15% of the total plot area shall be used for plantations.

- vii. Whenever developer will hand over building to the society, the developer must mention in the agreement or sale deed that 15% green belt area of total plot area should mentioned & Environmental Conditions given by SEIAA, Jharkhand has to be complied.
- viii. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
- ix. The funds earmarked for the environmental protection measures shall not be diverted for other purposes.
- x. In case of any changes in the scope of the project, the project shall require a fresh appraisal by the SEAC/SEIAA.
- xi. The SEAC/SEIAA, Jharkhand will have the right to amend the above conditions and add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- xii. 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.
- xiii. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal (NGT), if preferred within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

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