

**MINUTES OF THE 93<sup>RD</sup> MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), JHARKHAND HELD ON 18<sup>TH</sup>, 19<sup>TH</sup>, 20<sup>TH</sup>, 21<sup>ST</sup>, 22<sup>ND</sup>, 23<sup>RD</sup>, 24<sup>TH</sup>, 25<sup>TH</sup>, 26<sup>TH</sup> and 27<sup>TH</sup> FEBRUARY, 2022**

The 93<sup>rd</sup> meeting of State Level Expert Appraisal Committee (SEAC), Jharkhand was held on 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, 21<sup>st</sup>, 22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup>, 25<sup>th</sup>, 26<sup>th</sup> and 27<sup>th</sup> February, 2022 under the Chairmanship of Shri Ashok Kumar Singh, IFS (Retd.) in the Conference Room at SEAC, Ranchi.

The following members were present:

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

SEIAA forwarded various projects to the SEAC for the technical appraisal after the last SEAC meeting held on 20<sup>th</sup>, 21<sup>st</sup>, 22<sup>nd</sup>, and 23<sup>rd</sup> October, 2021. These projects have been put up for discussions. Besides, these Projects, wherein PP's were asked to provide requisite information / clarifications in the earlier meeting of SEAC, were also considered for appraisal. The Project Proponents have been asked to make technical presentation for the appraisal of their projects before the committee.

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

**Day 1 : February 18<sup>th</sup>, 2022 [Friday]**

**Consideration of Proposals**

**A. Matter referred by SEIAA :**

- i. Corrigendum EC letter for Nand Vatika Greens of M/s Nand Vatika Developers Pvt. Ltd., Village : Bariatu, Tehsil : Bargain, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH /MIS/247349 /2021).

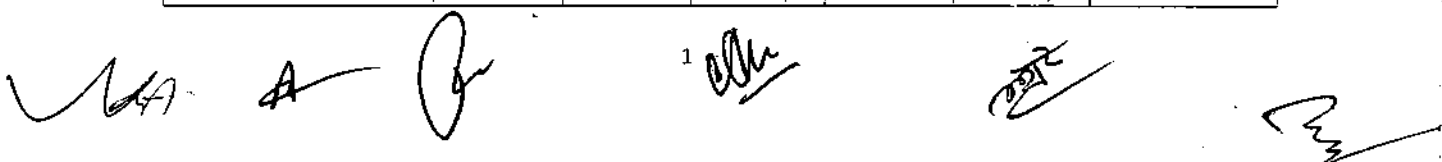
The PA's vide online application no. SIA/JH /MIS/247349 /2021 has requested for necessary correction in Environmental Clearance issued vide letter no. EC/SEIAA/2021-22/ 2459 /2021/198, dated 30.10.2021 with regard to the following :

**Plot no. & Khata no. as mentioned in above EC letter :**

Plot No.	4	8	27	37	50	S6
Khata No.	834	840	837, 839	838	835, 841	836

The correct plot no. & Khata no. are as follows :

Khata No.	4	8	27	37	50	56
Plot No.	834	840	837,	838	835,	836



			839		841	
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The SEAC recommends to issue the EC with corrected plot no. & khata no. as stated above and rest other terms & conditions mentioned in EC letter no. EC/SEIAA/2021-22/ 2459 /2021/198, dated 30.10.2021 shall remain the same.

- ii. Corrigendum EC letter for Belpahari Stone Mine of M/s Guru Stone Product, Mouza : Belpahari & Suraidih, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand (7.34 Ha)

(Proposal No. : SIA/JH/ MIN/ 246152/2021).

The PA's vide online application no. SIA/JH/MIN/ 246152/2021 has requested for necessary correction in Environmental Clearance issued vide letter no. EC/SEIAA/2016-17/ 2022 /2017/196, dated 30.10.2021 with regard to the following :

**Khata no. & Plot no. as mentioned in above EC letter :**

<b>Khata No.</b>	<b>25</b>
<b>Plot No.</b>	<b>138, 139</b>

The correct plot no. & Khata no. are as follows :

<b>Khata No.</b>	<b>25</b>	<b>02</b>
<b>Plot No.</b>	<b>138</b>	<b>139</b>

The SEAC recommends to issue the EC with corrected khata no. & plot no. as stated above and rest other terms & conditions mentioned in EC letter no. EC/SEIAA/2016-17/ 2022 /2017/196, dated 30.10.2021 shall remain the same.

- iii. Corrigendum EC letter for Expansion of Existing Auto Components – 3000 TPA, Engineering Items – 600 TPA, Export Items (Auto Components + Engineering Items) 754000 Nos./yr. to various Forgings 60000 TPA for M/s Ramkrishna Forings Limited – Plant 1 at Plot No.- M5 & M6 , 6<sup>th</sup> Phase, Adityapur Industrial Area, Gamharia, Dist. : Saraikela-Kharsawan, Jharkhand

(Proposal No : SIA/JH/IND/252291/2022)

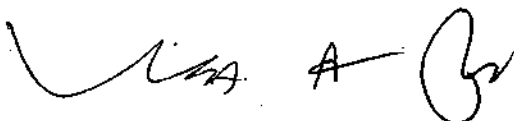
The PA's vide online application no. SIA/JH/IND/252291/2022 has requested for necessary correction in Environmental Clearance issued vide letter no. EC/SEIAA/2018-19/ 2083 /2018/710, dated 08.11.2019 with regard to EC condition no. vi & xv regarding water requirement.

The condition no. vi & xv mentioned in issued EC letter is as follows :

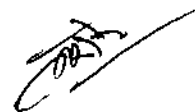
Condition no. vi mentions "As proposed, only propen gas will be used as fuel to reduce particulate emissions"

Condition no. xv mentions "Total water requirement from ground water source shall not exceed 495 m<sup>3</sup> / day "

**The correct EC condition no. vi & xv should be as follows :**









Condition no. vi is to be mentioned "As proposed, only furnace oil and diesel will be used as fuel to reduce particulate emissions, which has already been mentioned in salient features of the issued EC".

Condition no. xv is to be mentioned " Total water requirement from ground water source shall not exceed 150 m<sup>3</sup> / day which has already been mentioned in salient features of the issued EC "

The SEAC recommends to issue the EC with corrected ec condition no. vi & xv as stated above and rest other terms & conditions mentioned in EC letter no. EC/SEIAA/2018-19/ 2083 /2018/710, dated 08.11.2019 shall remain the same.

- iv. Serangdag Bauxite Mine with production capacity of Bauxite 1,00,000 TPA, Top Soil 15,350 TPA, OB 1,69,800 TPA & Mineral reject 40,000 TPA with installation of crusher 100 TPH, Screening & Washing of M/s Hindalco Industries Ltd., Village : Serangdag, Hanrup and Pauri, Taluka : Bishunpur & Ghaghra, Dist. : Gumla, Jharkhand (77.89 Ha).

(Proposal No. : SIA/JH/MIN/29237 /2018).

This proposal was taken by SEAC in 90<sup>th</sup> meeting held on dated 14-18.09.2021 and again in 92<sup>nd</sup> meeting held on dated 20, 21, 22 & 23.10.2021. In 92<sup>nd</sup> meeting after appraisal, SEAC gave its recommendation for granting of ToR.

SEIAA took the above proposal in 93<sup>rd</sup> meeting dated 26<sup>th</sup>, 27<sup>th</sup> & 28<sup>th</sup> October, 2021 and made some queries with reference to its 59<sup>th</sup> meeting regarding minimum distance criteria of 100 meter of lease from forest boundary. It is pertinent to mention here that then SEIAA in its 59<sup>th</sup> meeting MOM held on 09.08.2018 has taken a decision to keep a minimum distance criteria of 100 meter even for renewal of mines (existing mines) and other projects in the light of recommendation of then SEAC of 49<sup>th</sup> meeting.

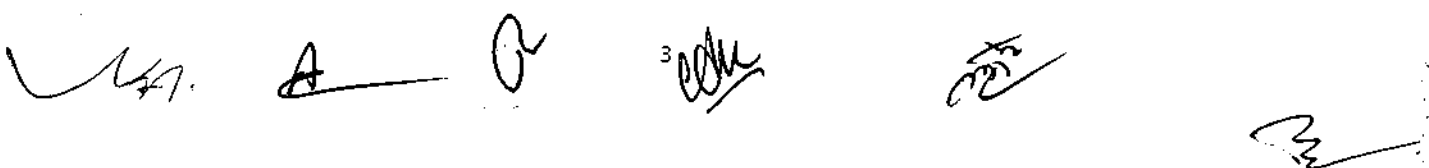
For proper appraisal of this distance criteria issue, the present SEAC examined the minutes of 49<sup>th</sup> meeting of then SEAC and other relevant documents available in file of SEAC/SEIAA. On perusal of file and document it is apparent that then SEAC in its 49<sup>th</sup> meeting has analysed the issue but has not made recommendation of any new distance criteria in renewal project (existing project). Rather recommendation of then SEAC in its 49<sup>th</sup> meeting in last two para is as follows:-

*"The members of the SEAC, Jharkhand are guided by the guidelines, rules & regulations issued by MoEF & CC published in Gazette as per EIA notification, 2006 and some decision related to environment by the Hon'ble Supreme Court of India.*

*In view of the above, the SEAC members are of the opinion that the earlier formulated guidelines be kept as such & no change is required".*

The SEAC in its 49<sup>th</sup> meeting has also expressed their views that SEAC is a technical expert committee for screening, scoping, appraisal and to recommend EIA/EMP for different project based on existing rules and guidelines of MoEF & CC.

From records the present Committee also came to know that the then Member Secretary, SEAC has given a separate opinion on 17.10.2018 which has been kept in file. From perusal of the



opinion of the then Member Secretary, SEAC, it was also found that a wrong, false and misleading information and facts has been given in his write up, which are as follows:-

- i. In para 3 of write up, reference of presence and opinion of some invited expert such as Director General of Mines Safety, Dept. of Mines and Geology, JSPCB and Department of Forest, Environment & Climate Change, Govt. of Jharkhand has been given. But as a matter of fact neither any expert or invited members appeared in meeting nor gave their opinion on the issue.
- ii. In para 5 and 6, a reference of guidelines of JSPCB, State of Kerla, Jammu & Kashmir and Karnataka has been given regarding distance criteria. But this fact is misleading. As a fact distance criteria is for new project and nor for existing project. (i.e. renewal of project)
- iii. In para 10, then Member Secretary, SEAC has opined i.e. "Members have unanimously arrived at the conclusion that minimum distance of notified forest (RF/PF) for new project should be 250 meter and for renewal of the legally existing project may be kept as 100 meter from the said project site, so that the irreversible damage may not be caused to the forest, environment and wildlife dwelling within, due to mining & other industrial activities.

Besides, the minimum distance as proposed above, it would be expedient to enhance the said limit depending upon the severity of pollution caused by the highly polluting industries.

But as a fact in 49<sup>th</sup> meeting SEAC has not given above mentioned conclusion but final recommendation of SEAC in its 49<sup>th</sup> meeting dt. 16-17 October, 2018 is, that no change is required.

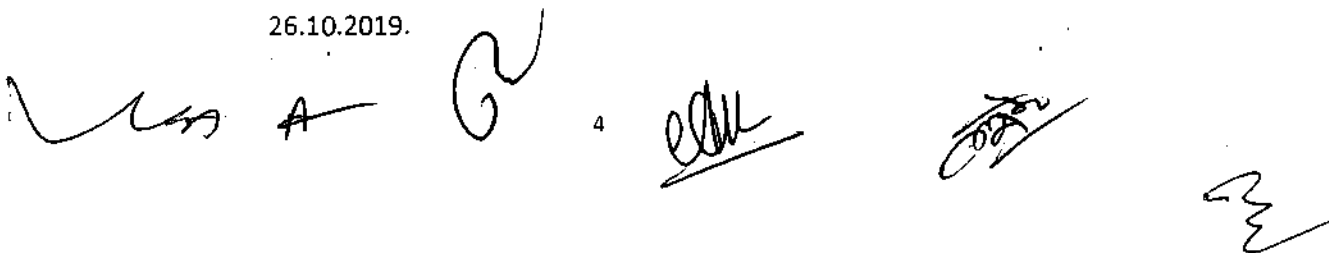
- iv. In para 7 (ii) of then SEAC Member Secretary write up the fact regarding distance criteria is wrong and misleading. From perusal of records dated 07.05.2013 it is evident that distance criteria has been given only for new mines and that too is for minor mineral and there is no recommendation in renewal matter. Secondly, opinion of Member secretary can not be taken as the opinion of SEAC, but it is his individual opinion, which can not be taken as recommendation of SEAC.
- v. This Committee is bound to follow the EIA notification 2006, guidelines of MoEF & CC and directions given by apex Court or any competent Court of law. But example of other states, if any, can not be taken as direction or necessary guideline for this committee.
- vi. The committee again reiterates its recommendation of 92<sup>nd</sup> meeting to issue ToR to Serangdag Bauxite Mines.

## **B. Consideration of Proposals :**

1. **Belpahari Stone Mine of M/s Maa Durga Stone Works, Mouza : Belpahari & Beldiha, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand (12.15 Ha).**

**(Proposal No. : SIA/JH/MIN/ 190783/ 2020).**

**Project Category** : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 78<sup>th</sup> meeting held on 18-20.09.2019 and SEIAA, Jharkhand has approved the ToRs in 80<sup>th</sup> meeting held on 25<sup>th</sup> September, 2019. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 579, date 26.10.2019.

The bottom of the page contains several handwritten signatures and initials. From left to right, there is a signature that appears to be 'A', followed by a signature that looks like 'B', then a signature that looks like 'C', and finally a signature that looks like 'D'. There are also some other scribbles and marks.

The final EIA / EMP submitted by PP to SEIAA on 27.09.2021 and which was forwarded to SEAC on 29.09.2021.

**EC Application for: Boulder Stone :130,485 Cu.M. / year i.e. 3,78,408 TPA  
Mobile Crusher**

**Name of the consultant: POLLUTION & ECOLOGY CONTROL SERVICES (PECS), NAGPUR**

This is a new project which has been taken for appraisal on 18.02.2022

**Project and Location Details :**

Sl	Parameter	Details
1	Project Name	: M/s Maa Durga Stone Works
2	Lessee:	: Sri Soumitro Ghosh
3	Lease Address	: Mouza : Belpahari & Beldiha, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand
4	Lease Area	: Ha: 12.15ha. Acres: 30.02 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Rs. 98 Lakhs
7	EMP Budget	: Capital: 4,28,000Lakhs/year Recurring: 2,83,000Lakh / year
8	CSR / CER Budget	: Rs. 2,20,000 Lakhs/year
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 3012357 Tonnes: 8735835
11	Mine Life	: 23.33years
12	Man power	: 49 persons
13	Water Requirement	: 9.98 KLD (Drinking : 0.980 KLD, Dust Suppression : 4.00 KLD, Plantation : 5.00 KLD)
14	Water Source	: Mine pit Water, tanker from abandoned mine pits and Bore-well water for domestic use
17	Nearest Water Body	: Torai Nadi at a distance of 3.2 Km
18	Nearest Habitation	: Ghagharjani village, 2.2 km
19	Nearest Rail Station	: Pakur Railway Station – 22 km (NW)
20	Nearest Air Port	: Netaji Subhash Chandra Boss Airport, Kolkata – 250.00 km (SE)
21	Nearest Forest	: NIL
22	Road &	: NH-34 –Approx. 16.2km (NE)

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**CO-ORDINATES :**

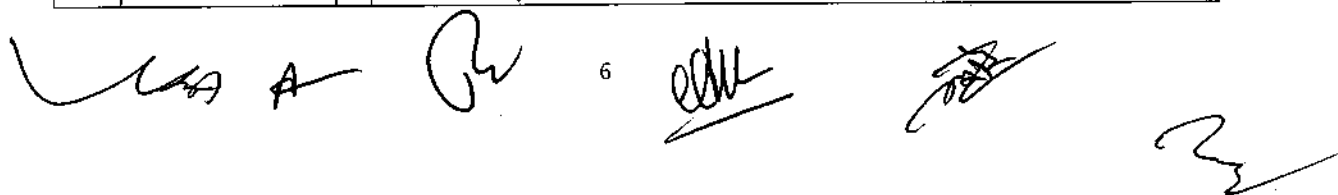
1	Latitude	From 24°42'04.78"N	To 24°42'21.59"N
2	Longitude	From 87°44'45.51"E	To 87°45'03.25"E

**LAND DETAILS :**

Sl. No.	Mouza	Khata no.	Plot no.
1	Belpahari & Beldiha	18	123
2		56	124
3		27	131,132,133,134,136,722,723,724
4		25	135
5		07	137
6		30	138,139,140
7		59	141
8		32	676,679
9		17	677,682
10		02	678,680,681
11		13	683,684,685,686
12		05	691
13		06	692,693,694,695
14		03	696,697
15		24	698,699,720,721

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 2791/M dated 29.12.2018.
2	CO	: The CO, Hiranpur vide memo no. 581, dated 12.11.2018 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyan.
3	DMO	: DMO, Pakur vide memo no. 1168/M, dated 19.05.2017 certified that the 01 lease (6.08 Acre) exists within 500 m radius and total lease area is 14.609 ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribag vide letter no. 1392, dated 20.07.2019 certified that the Udhwa Lake Bird Sanctuary is 29,930 m from project site and not within 10 km from National Park, Bio-Diversity area & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest	: DFO, Pakur Division vide letter no. 1198, dated 01.08.2016 certified



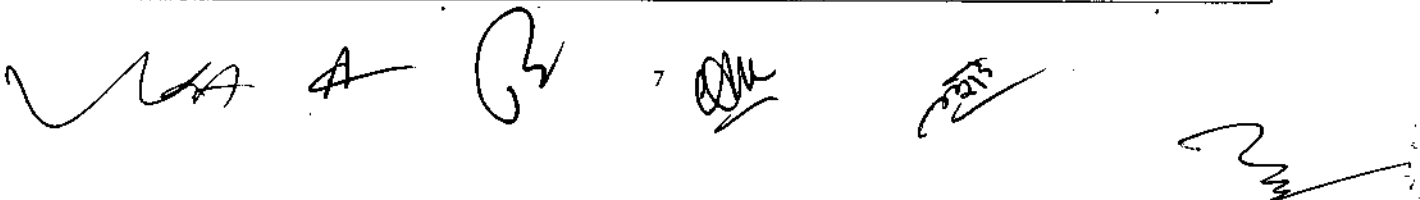
	Distance	:	that the distance of notified forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no. 1412/M, dated 12.08.21 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 02.07.2016
8	Mine Plan Approval	:	Memo No. 212, Dated- 26.04.2017
9	Public Hearing	:	Public Hearing of the project was conducted on 13.10.2020.

**Working Details :**

1	Mining Method	:	Semi - Mechanized Open Cast Mining, Drilling & Blasting to be used		
2	Quarry Area	:	5 years – 7.48ha	Life of Mine – 7.48ha	
3	Waste Generation	:	5 years– 54564 Cu.M	Life of Mine – 54564 Cu.M	
4	Stripping Ratio	:	1:0.01		
5	Working Days	:	300 days		
6	Benches: size & No	:	5m x 5m		
7	Elevation of Mine	:	82 AMSL		
8	Ground Level Elevation	:	73 to 82 AMSL		
9	Ultimate Working Depth	:	30 AMSL		
10	Water Table	:	25 AMSL		
11	Topography of Mine	:	Flats and elevated with undulation		
12	Explosive Requirement	:	2.108Tons/Month		
13	Diesel/Fuel requirement	:	JCB - 2	60 Lts. (Approx.)	For 8 Hrs.
			Compressor- 02	60 Lts. (Approx.)	Per Day
			Tractor sprinkle01	50 Lts. (Approx.)	For 4 Hrs.
			Tipper - 06	150 Lts. (Apprx.)	For 8 Hrs
			Hydraulic Tractor- 06	200 Lts. (Apprx.)	For 8 Hrs..
			TOTAL	520 Lts.	

**Production Details**

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (Cum)	Bench RL in Meters
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1 <sup>st</sup>	111863	324402	14044	62m-67m
2 <sup>nd</sup>	117233	339977	10122	62m-57m
3 <sup>rd</sup>	129902	376714	11537	57m-52m
4 <sup>th</sup>	130297	377862	9328	52m-47m
5 <sup>th</sup>	130486	378408	9533	52m-47m
<b>Total</b>	<b>619781</b>	<b>1797363</b>	<b>54564</b>	

**Land Use :**

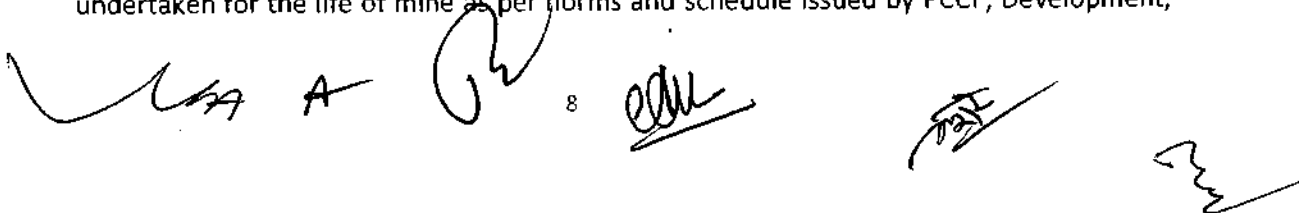
SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Quarry	0.00	3.14	7.48(water reservoir)	10.623(3.143 ha area shall be backfilled & 7.480 ha area shall be left as water reservoir)
2	Road	0.18	0.18	0.002	0.002
3	Waste Dump	0.00	1.365	3.143(backfilled)	Nil (waste dump to be removed and backfilled)
4	Safety Zone	0.00	1.525	1.525	Nil ( to be removed)
5	Infrastructure	0.002	0.202	0.00	1.525
6	Unutilized	11.97	5.738	0.00	0.00
	<b>TOTAL</b>	<b>12.15</b>	<b>12.15</b>	<b>12.15</b>	<b>12.15</b>

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

SE	Location	Area/Length	No of Trees
1	Safety Zone	: 4.00ha	1300 trees/ 260 sapling every year
2	Other Reclaimed Area	: NIL	
3	Haul /Approach Road	: Haul Road Length is 482 m	321 plants (161 plants on both side at the interval of 3 m)

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





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

#### **Solid Waste Management**

There will be no solid waste generation.

#### **Water Quality Management**

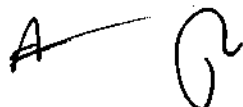
- The working at the end of 5 years of the plan period will not intercept the water table.
- In the applied mining lease area the flow of water is very low.
- The major portion of the area comprises of gently sloping surrounded with peripheral slope all along, there will be no problem of water drainage.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.



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

**This proposal was earlier considered in 92nd meeting of SEAC held during 20-23.10.2021 in which PAs were asked to submit a consolidated ToR compliance report.**

PAs has submitted the consolidated ToR compliance report.

**Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Belpahari Stone Mine of M/s Maa Durga Stone Works, Mouza : Belpahari & Beldiha, Tehsil : Hiranpur, Dist. : Pakur, Jharkhand (12.1S Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.**

**Day 2 : February 19, 2022 [Saturday]**

**Consideration of Proposals**

- 1. Utopian Heights Ranchi of M/s Akshat Housing Developers Pvt. Ltd., Village : Pundag, Tehsil : Nagri, Dist. : Ranchi, Jharkhand.**

**(Proposal No. : SIA/JH/ MIS/241110 /2021).**

**Name of the consultant : Crystal Consultants, Ranchi**

This is a new project which has been taken for appraisal on 19.02.2022.

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

**Salient Features of the Project :**

PARTICULAR	DETAILS		
Project Name	Utopian Heights Ranchi		
Proponent	Akshat Housing Developers Pvt. Ltd.		
Type of Building	Residential Building		
Latitude	23°21'3.61" N		
Longitude	85°16'37.92" E		
Plot No.	1264, 1269	1292	1270, 1271, 1272

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Khata No.	96	146	147
Mauza	Pundag		
Tehsil	Nagri		
District	Ranchi		
State	Jharkhand		
Plot Area	Total Plot Area as per sale deed is 8330.60 m <sup>2</sup> Net Plot Area <b>6497.05 m<sup>2</sup></b> after deduction of common area		
Plantation	1215.8 m <sup>2</sup> (18.71 % of Available Plot Area)		
Permissible Ground Coverage	3248.52 m <sup>2</sup> (50%)		
Consumed Ground Coverage	2280.31 m <sup>2</sup> (35.10%)		
Permissible FAR	3.50		
Consumed FAR	3.48		
No. of Building Block	<b>5 building blocks as follows :</b> 4 Residential Building Block <ul style="list-style-type: none"> <li>• Block A</li> <li>• Block B</li> <li>• Block C</li> <li>• Block D</li> </ul> 1 Community Building Block		
Total Built-Up Area	Total Built- Up Area: 42,245.56m <sup>2</sup>		
No. of Floor	Block A: G+15 Block B: G+16 Block C: G+15 Block D: G+13 Community Hall: G+2		
Height	Block A: 48 m Block B: 51 m Block C: 48 m Block D: 42 m Community Hall: 10.35 m <u>NOTE: Height from Street Level</u>		
Building Configuration	<b>Total Dwelling Units: 271</b> 1 BHK: 36 2 BHK: 50 3 BHK: 155 4 BHK: 30		
Population	1687		
Parking	4 Wheelers: 235 2 Wheelers: 264 Visitors Car Parking: 24 <b>Total Area Provided for Parking: 9227.68 m<sup>2</sup></b>		

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<b>Municipal Solid Waste</b>	Total Municipal Solid Waste = 1012.20 Kg Bio-Degradable = 404.88 Kg Non-Biodegradable = 607.32 Kg
<b>Power Requirement</b>	2500 KVA (2 X 1250 KVA TRANSFORMER) Source : Jharkhand State Electricity Board
<b>Power Back-up</b>	165 KVA (2 X 82.5 KVA DG Sets)
<b>Renewal Energy</b>	Solar - 400 KVA (16 % of total power requirement)
<b>RWH Pits</b>	3 Pits
<b>Total Water Demand</b>	309.73 KLD
<b>Waste Water quantity</b>	197.38 KLD
<b>Capacity of STP</b>	220 KLD
<b>Total Treated Water from STP</b>	157.90 KLD
<b>Project Cost</b>	Rs. 63,63,87,116.00

### STATUTORY CLEARANCE

- Building Plan Approved by Ranchi Municipal Corporation vide Memo No. RMC/AH/1303/W36/2020, Date 29/09/2021.
- Airport Authority of India issued a height clearance NOC vide its NOC ID –RANC/EAST/B/121620/S16803, dated 04/01/2021.
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. – 2799/Tech./2020, dated 18/12/2020.
- The DFO, Wildlife Ranchi Vide Memo No. 275 Dated 18/03/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- The DFO, Ranchi Division vide Letter No. 260 Dated 22/01/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Nagri vide Letter No. 1057 (ii) Dated 04/10/2021 has mentioned plot no. of the project is not recorded as “Jangle Jhari” in R.S Khatiyani & Register II.

**During the presentation the following documents were sought :**

- a) Undertaking :
  - i. No ground water will be used during construction phase.
  - ii. If, ground water is required during operational phase, permission will be taken from competent authority.
- b) Affidavit for no construction has been started.
- c) Sludge management plan.
- d) Description of design and architecture related to energy conservation.
- e) Revised site plan clearly showing the proposed green area, STP and RWH location .

**The PAs have submitted the above required undertaking and documents.**

Based on the presentation made and information provided, the Committee decided that the proposal for Utopian Heights Ranchi of M/s Akshat Housing Developers Pvt. Ltd., Village : Pundag, Tehsil : Nagri, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith the following specific conditions :

- I. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
  - II. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
  - III. All raw material to be stored only under covered shed.
  - IV. PAs to ensure ZERO DISCHARGE for its process discharges.
  - V. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
  - VI. Green belt and Green cover to be implemented as provided in layout plan.
2. **Pyroxenite Mine of Sri Deepak Kumar Singh, Mouza : Jhagarsai, Thana : Potka, Dist. : East Singhbhum, Jharkhand (3.54 Ha).**

(Proposal No. : SIA/JH/MIN/224197 /2021).

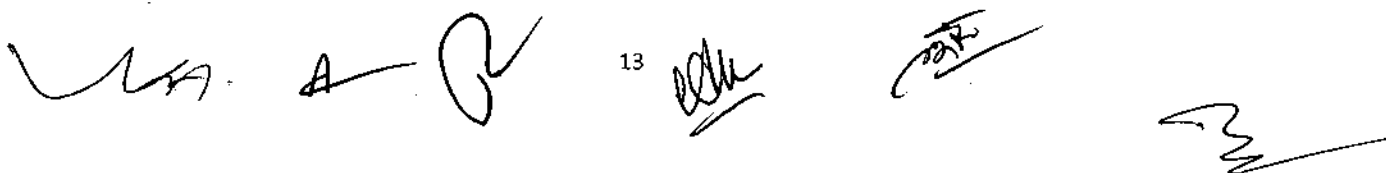
**Project Category:** B2 – Application for Environment Clearance  
**EC Application for:** Boulder Stone : 49574 Cu.M. / year i.e. 157151 TPA  
Waste : 55933 Cu.M. / year  
DG Set : 0.0 KVA  
Mobile Crusher

**Name of the consultant :** Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 19.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Pyroxenite Mine of Jhagarsai
2	Lessee:	: Deepak Kumar Singh
3	Lease Address	: E-131, Sonari East, Jamshedpur East.
4	Lease Area	: 3.54 Ha. 8.75 Acres
5	Type of Land	: Tenancy Land
6	Project Cost	: 90.00 Lakhs
7	EMP Budget	: Capital:11.00 Lakhs Recurring: 2.50 Lakh / year
8	CSR / CER Budget	: Rs. 1.00 Lakhs



9	New or Expansion	:	NEW
10	Mineable Reserves	:	Cu.M.: 198179.82 Cu. M. Tonnes: 628230 Tonnes
11	Mine Life	:	5 Years
12	Man power	:	37
13	Water Requirement	:	17.00 KLD (Drinking: 2.00 KLD, Dust Suppression: 10.00 KLD, Plantation: 5.00 KLD)
14	Water Source	:	Tanker
15	DG Set / power	:	Not Applicable
16	Crusher	:	No
17	Nearest Water Body	:	Dhutra Nadi: 1.0 km towards East Gudra Nadi: 1.2 km towards North Kudal Nala: 1.5 km towards West
18	Nearest Habitation	:	Potka Village
19	Nearest Rail Station	:	Haldipokhar (10Km)
20	Nearest Air Port	:	Sonari (25 Km)
21	Nearest Forest	:	None
22	Road & Highways	:	Haldipokhar Railway Station (10 KM)

**CO-ORDINATES :**

1	Latitude	From 22°35'55.00" N	To 22°36'04.41" N
2	Longitude	From 86°14'26.80" E	To 86°14'43.60" E

**LAND DETAILS :**

Khata No.	Plot No.
9	317
17	217
	217/671
47	315
	316
56	297
71	312
	313
	314
75	218
101	322
122	442
125	209
	209/669
126	210
127	203
141	201
	208

*W. A.*

*B.*

*CDM*

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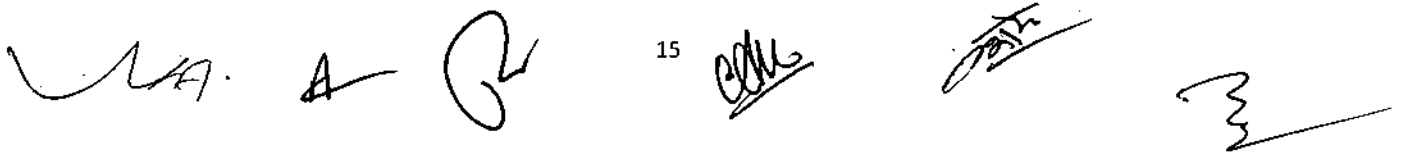
	214
	216
	259
	303
	311
	325
	441
	670

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	Lease Document dated 26/05/2003
2	CO	:	The CO, Potka vide letter no. 679, dated 03.10.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide memo no. 1141/M, dated 08.09.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1598, dated 11.10.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Forest Division vide letter no. 2995, dated 22.11.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	Project's name is mentioned in District Survey report (DSR) East Singhbhum.
7	Gram Sabha	:	Letter No.-194 dated 20.02.2018
8	Mine Plan Approval	:	Letter No. 268/DDM, dated 05.08.2019

**Working Details :**

1	Mining Method	:	Opencast Semi-Mechanised Mining Method
2	Quarry Area	:	5 years – 2.57 Ha. Life of Mine – 2.57 Ha.
3	Waste Generation	:	5 years– 55933 Cu.M Life of Mine – 55933 Cu.M
4	Stripping Ratio	:	1:0
5	Working Days	:	300
6	Benches: size & No	:	6 X 6 & 4 numbers
7	Elevation of Mine	:	159 AMSL


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8	Ground Level Elevation	:	160 AMSL
9	Ultimate Working Depth	:	135 AMSL
10	Water Table	:	129 AMSL and also bgl
11	Topography of Mine	:	Rolling
12	Explosive Requirement	:	66.66 Kg / day
13	Diesel/Fuel requirement	:	350 Litres/day

**Production Details :**

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	41313	130964	13034	159
2 <sup>nd</sup>	49574	157151	12394	153
3 <sup>rd</sup>	49540	157072	13337	147
4 <sup>th</sup>	49569	157136	13577	141
5 <sup>th</sup>	28159	25865	2691	135
<b>Total</b>	<b>218155</b>	<b>628188</b>	<b>55033</b>	

**Land Use :**

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.01	2.57	2.57	2.57	2.57
2	Office /Store	--	--	--	--	--
3	Crusher	--	--	--	--	--
4	Road	0.11	0.11	0.11	0.11	0.11
5	Garland Drain	--	--	--	--	--
6	Safety Zone	--	0.86	0.86	0.86	0.86
7	Settling Tank	--	--	--	--	--
8	Unutilized	3.42	--	--	--	--
	<b>TOTAL</b>	<b>3.54</b>	<b>3.54</b>	<b>3.54</b>	<b>3.54</b>	<b>3.54</b>

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.85	300
2	Other Reclaimed Area	: 0.00	0.00



3	Haul/Approach Road	:	0.11	190
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- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

#### **Solid Waste Management**

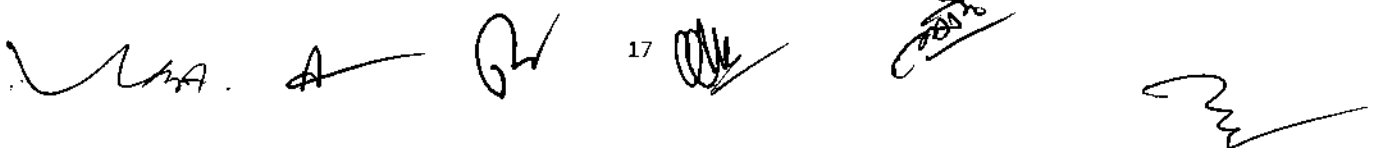
- Waste Generation will be 55933 Cu.M. during the life of Mine. Dump area proposed for waste storage is 0.0 ha. The Waste shall be handled as detailed below:

#### **Water Quality Management**

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

#### **Air Quality Management**

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


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- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Pyroxenite Mine of Sri Deepak Kumar Singh, Mouza : Jhagarsai, Thana : Potka, Dist. : East Singhbhum, Jharkhand (3.54 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

- Mundli Stone Mine of Sri Rajesh Kumar Jaiswal, Village : Mundli, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (2.633 Ha).

(Proposal No. : SIA/JH/MIN/250838 /2022).

Project Category : B2 – Application for Environment Clearance

EC Application for : Boulder Stone: 47,256 Cu.M./ year i.e. 1,27,591 TPA

Name of the consultant: Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 19.02.2022

**PROJECT AND LOCATION DETAILS:**

Sl	Parameter	Details
1	Project Name	: Mundli Stone Mine
2	Lessee:	: Sri Rajesh Kumar Jaiswal
3	Lease Address	: Mouza – Mundli, Thana – Mirzachouki District – Sahibganj, State – Jharkhand.

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4	Lease Area	:	Ha: 2.633 ha.	Acres: 6.50 Ac.
5	Type of Land	:	Non Forest – Rayati Land	
6	Project Cost	:	99.80 Lakhs	
7	EMP Budget	:	Capital: 8.00 Lakhs	Recurring: 4.00 Lakh / year
8	CSR / CER Budget	:	Rs. 1.80 Lakhs	
9	New or Expansion	:	New Project	
10	Mineable Reserves	:	Cu.M.: 4,89,434	Tonnes: 13,21,472 Tonnes
11	Mine Life	:	10 years	
12	Man power	:	30	
13	Water Requirement	:	13 KLD (Drinking: 01 KLD, Dust Suppression: 10 KLD, Plantation: 02 KLD)	
14	Water Source	:	Dug well for drinking & River water for dust suppression/ green belt	
15	DG Set / power	:	Not required	
16	Crusher	:	Not within mine lease area	
17	Nearest Water Body	:	Ganga River 12 KM	
18	Nearest Habitation	:	Mahadeobaran Village: 2.00 KM; Mirzachouki: 3.00 KM	
19	Nearest Rail Station	:	Mirzachouki - 3.00 KM	
20	Nearest Air Port	:	Kolkata – 325 KM, Ranchi - 325 KM (Approx.)	
21	Nearest Forest	:	Not within 250m	
22	Road & Highways	:	Sahibganj – Kahalgaon Road is about 2.00 KM	

#### CO-ORDINATES

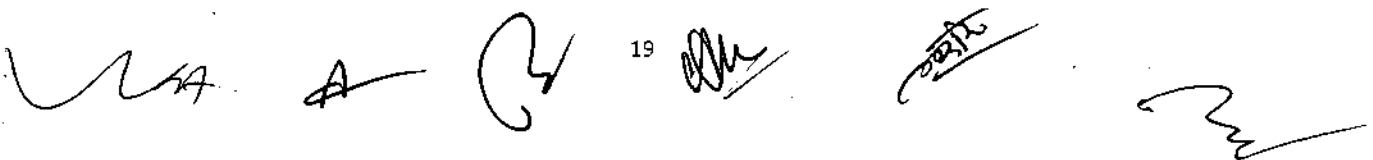
1	Latitude	From 25° 14' 26.48" N	To 25° 14' 30.97" N
2	Longitude	From 87° 29' 37.01" E	To 87° 29' 51.38" E

#### LAND DETAILS :

1.	Mouza Mundli	Khata No.	Plot No.
		05	53 (P) 57 (P)
		18	54 (P)

#### STATUTORY CLEARANCES :

1	LOI/Lease docs	:	Lol has been issued by District Mining Office, Sahibganj, vide letter no. 966/M dated 23.09.2021.
2	CO	:	The CO, Mandro vide memo no. 32, dated 11.01.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyān & Register II.
3	DMO	:	DMO, Sahibganj vide letter no. 978/M, dated 25.09.2021 certified that there is no other mining lease exist within 500 m radius from


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		proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh Division vide letter no. 1935, dated 10.11.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Sahibganj vide letter no. 341, dated 20.02.2015 certified that the distance of notified forest is 400 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Sahibganj issued letter regarding DSR vide letter no. 1156/M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) of Sahibganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: Issued NOC on vide memo no. Nil dated 06.01.2020
8	Mine Plan Approval	: Letter No. 1189/M, Sahibganj dated 09.12.2021

**Working Details :**

1	Mining Method	: Opencast Mechanized.
2	Quarry Area	: 1.943 ha.
3	Waste Generation	: 53933 m <sup>3</sup>
4	Stripping Ratio	: 0.11 (overall stripping ratio)
5	Working Days	: 300
6	Bench: size & No	: 6m x 6m and 5 benches.
7	Elevation of Mine	: 210m AMSL
8	Ground Level Elevation	: 62m AMSL
9	Ultimate Working Depth	: 171 m AMSL
10	Water Table	: 57 m AMSL
11	Topography of Mine	: Dips from South to North
12	Explosive Requirement	: 12,759 kg/year
13	Diesel/Fuel requirement	: NA (as DG set not required)

**Production Details :**

Year	Production of stone (Cum)	Production of stone (Tonne)	OB (Cum)	Bench AMSL in Meters
1 <sup>st</sup>	47,245	1,27,562	53,933	207 – 189
2 <sup>nd</sup>	47,245	1,27,562	-	195 – 189
3 <sup>rd</sup>	47,256	1,27,591	-	195 – 183
4 <sup>th</sup>	47,234	1,27,532	-	195 – 183

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5 <sup>th</sup>	47,256	1,27,591	-	195 - 183
<b>Total</b>	<b>2,36,236</b>	<b>6,37,838</b>	<b>53,933</b>	

**Land Use :**

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.500	1.943	Water Body
2	Dump	0.00	0.340	0.000	-
3	Office /Store	0.00	0.000	0.000	-
4	Crusher	0.00	0.000	0.000	-
5	Road	0.00	0.010	0.010	Green Belt
6	Safety Zone	0.00	0.630	0.630	Green Belt
7	Unutilized	2.633	0.153	0.050	Green Belt
	<b>TOTAL</b>	<b>2.633</b>	<b>2.633</b>	<b>2.633</b>	

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.63 ha	650 trees
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 0.05 km	50 trees

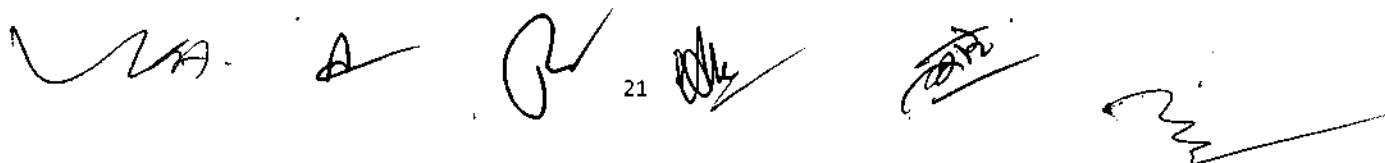
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

**Solid Waste Management**

- There is no waste to be generated.

**Water Quality Management**

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after


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settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.

- Garland drain shall be made in the outer part of safety barrier and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- Domestic waste water will not be generated.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Mundli Stone Mine of Sri Rajesh Kumar Jaiswal, Village : Mundli, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (2.633 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

4. Gilamari Stone Mine of M/s Nirmala Stone Works, Village : Gilamari, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (2.896 Ha).

(Proposal No. : SIA/JH/MIN /250232 /2022).

Project Category : B2 – Application for Environment Clearance

EC Application for : Boulder Stone: 45,592 Cu.M./ year i.e. 1,23,098 TPA

Name of the consultant: Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 19.02.2022

**PROJECT AND LOCATION DETAILS:**

Sl	Parameter	Details
1	Project Name	: Gilamari Stone Mine
2	Lessee:	: Sri Akshay Kumar Aryan- Proprietor (M/s Nirmala Stone Works)
3	Lease Address	: Mouza – Gilamari, Thana – Mirzachouki District – Sahibganj, State – Jharkhand.
4	Lease Area	: Ha: 2.896 ha. Acres: 7.15 Ac.
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 84.50 Lakhs
7	EMP Budget	: Capital: 8.00 Lakhs Recurring: 4.00 Lakh / year
8	CSR / CER Budget	: Rs. 1.50 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 7,90,122 Tonnes: 21,33,329 Tonnes
11	Mine Life	: 17 years
12	Man power	: 26
13	Water Requirement	: 11 KLD (Drinking: 01 KLD, Dust Suppression: 08 KLD, Plantation: 02 KLD)
14	Water Source	: Dug well for drinking & River water for dust suppression/ green belt
15	DG Set / power	: Not required
16	Crusher	: Not within mine lease area
17	Nearest Water Body	: Ganga River 12 KM
18	Nearest Habitation	: Mirzachouki Village: 4.00 KM;
19	Nearest Rail Station	: Karamtola - 4.00 KM
20	Nearest Air Port	: Kolkata – 325 KM, (Approx.)
21	Nearest Forest	: Not within 250m

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22	Road & Highways	:	Sahibganj – Mirzachouki Road is about 4.00 KM
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**CO-ORDINATES :**

1	Latitude	From 25° 13' 29.39" N	To 25° 13' 38.87" N
2	Longitude	From 87° 31' 48.35" E	To 87° 31' 54.98" E

**LAND DETAILS :**

1.	<b>Mouza</b> <b>Gilamari</b>	<b>Khata No.</b> 14	<b>Plot No.</b> 400 (P), 408 & 409 (P)
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**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	Lol has been issued by District Mining Office, Sahibganj, vide letter no. 1392/M dated 09.10.2019.
2	CO	:	The CO, Mandro vide memo no. 473 dated 26.11.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan.
3	DMO	:	DMO, Sahibganj vide memo no. 1660/M, dated 04.12.2019 certified that there is no other mining lease exist within 500 m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife, Hazaribagh Division vide letter no. 1214, dated 26.07.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Sahibganj vide memo no. 913 dated 18.05.2018 certified that the distance of notified forest is 255 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Sahibganj issued letter regarding DSR vide letter no. 1154/M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) of Sahibganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Issued NOC on vide memo no. Nil dated 20.03.2018

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8	Mine Plan Approval	:	Letter No. 820/M, Sahibganj dated 05.08.2021
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**Working Details :**

1	Mining Method	:	Opencast Mechanized.
2	Quarry Area	:	2.093 ha.
3	Waste Generation	:	51,153 m <sup>3</sup>
4	Stripping Ratio	:	0.224
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m and 7 benches.
7	Elevation of Mine	:	240m AMSL
8	Ground Level Elevation	:	52m AMSL
9	Ultimate Working Depth	:	196 m AMSL
10	Water Table	:	46 m AMSL
11	Topography of Mine	:	Dips from South to North
12	Explosive Requirement	:	12,759 kg/year
13	Diesel/Fuel requirement	:	NA (as DG set not required)

**Production Details :**

Year	Production of stone (Cum)	Production of stone (Tonne)	OB (Cum)	Bench AMSL in Meters
1 <sup>st</sup>	45,557	1,23,004	28,427	238 – 232
2 <sup>nd</sup>	45,557	1,23,004	-	232 – 226
3 <sup>rd</sup>	45,579	1,23,063	22,726	232 – 226
4 <sup>th</sup>	45,592	1,23,098	-	226 – 220
5 <sup>th</sup>	45,592	1,23,098	-	226 - 220
<b>Total</b>	<b>2,27,877</b>	<b>6,15,267</b>	<b>51,153</b>	

**Land Use :**

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Conceptual Period (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.209	2.093	Water Body
2	Dump	0.00	0.300	0.000	-
3	Office /Store	0.00	0.000	0.000	-
4	Crusher	0.00	0.000	0.000	-
5	Road	0.00	0.020	0.010	-
6	Safety Zone	0.00	0.560	0.560	Green Belt
7	Unutilized	2.896	0.807	0.233	Water Body
	<b>TOTAL</b>	<b>2.896</b>	<b>2.896</b>	<b>2.896</b>	

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## ENVIRONMENT MANAGEMENT

### Green Belt Development

SL	LOCATION		Area/Length	No. of Trees
1	Safety Zone	:	0.56 ha	600 trees
2	Other Reclaimed Area	:	NIL	NIL
3	Haul /Approach Road	:	0.10 km	100 trees

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

#### Solid Waste Management

- There is no waste to be generated.

#### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made in the outer part of safety barrier and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- Domestic waste water will not be generated.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission

- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Gilamari Stone Mine of M/s Nirmala Stone Works, Village : Gilamari, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (2.896 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

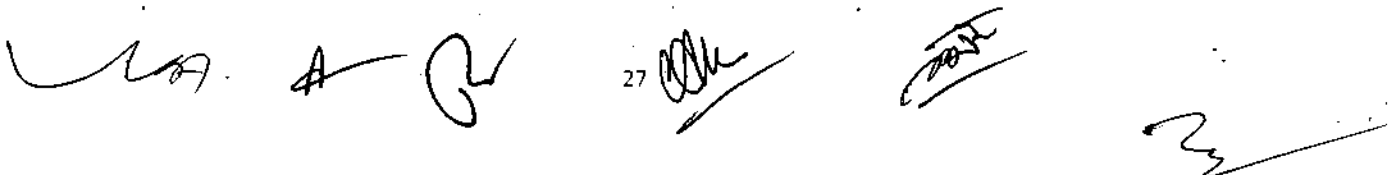
5. Jamua Stone Mine of M/s Gautam Enterprises, Village : Jamua (Vishunpur), Tehsil : Chhatarpur, Dist. : Palamu, Jharkhand (2.835 Ha).

(Proposal No. : SIA/JH/MIN /249578 /2022).

Project Category : B2 – Application for Environment Clearance

EC Application for : Boulder Stone: 1,11,135 Cu.M./ year i.e. 3,00,065 TPA

Name of the consultant: Crystal Consultants, Ranchi

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This is a new project which has been taken for appraisal on 19.02.2022

**PROJECT AND LOCATION DETAILS:**

Sl	Parameter	Details	
1	Project Name	: Jamua (Vishunpur) Stone Mine	
2	Lessee:	: M/s Gautam Enterprises, (Proprietor: Shri Rajesh Kumar Singh)	
3	Lease Address	: Mouza – Jamua, Thana – Naudiha Bazar, District – Palamu, State – Jharkhand.	
4	Lease Area	: Ha: 2.835 ha.	Acres: 7.00 Ac.
5	Type of Land	: Non Forest – Rayati Land	
6	Project Cost	: 89.60 Lakhs	
7	EMP Budget	: Capital: 8.00 Lakhs	Recurring: 4.00 Lakh / year
8	CSR / CER Budget	: Rs. 1.60 Lakhs	
9	New or Expansion	: New Project	
10	Mineable Reserves	: Cu.M.: 6,94,002 Cu. M.	Tonnes: 18,73,805 Tonnes
11	Mine Life	: 06 years	
12	Man power	: 43	
13	Water Requirement	: 13 KLD (Drinking: 1.5 KLD, Dust Suppression: 10 KLD, Plantation: 1.5 KLD)	
14	Water Source	: Dug well for drinking & River water for dust suppression/ green belt	
15	DG Set / power	: Not required	
16	Crusher	: Not within mine lease area	
17	Nearest Water Body	: Jhonk River 0.80 KM	
18	Nearest Habitation	: Vishunpur Village: 0.80 KM; Naudiha: 3.00 KM	
19	Nearest Rail Station	: Japla - 40.00 KM	
20	Nearest Air Port	: Ranchi - 225 KM	
21	Nearest Forest	: Not within 250m	
22	Road & Highways	: Naudiha – Pachmo Road – 2.00 KM, NH 139 – 10 KM.	

**CO-ORDINATES :**

1	Latitude	From 24° 24' 37.66" N	To 24° 24' 43.06" N
2	Longitude	From 84° 18' 55.74" E	To 84° 19' 04.52" E

**LAND DETAILS :**

1.	Mouza	Khata No.	Plot No.
	Jamua (Vishunpur)	16	68 (P) & 74
		76	75 (P) & 76 (P)

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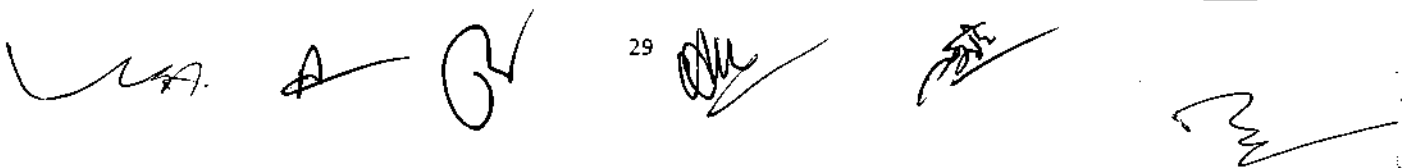
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**STATUTORY CLEARANCES :**

1	LOI/Lease docs	: LOI has been issued by District Mining Office, Palamu vide letter no. 1125/M dated 23.09.2021.
2	CO	: CO, Naudiha Bazar, Palamu vide letter no. 276, dated 01.09.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	: DMO, Palamu vide letter no. 1173/M, dated 06.10.2021 certified that no other mining lease exists within 500 m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	: Deputy Director, Palamau Tiger Project, North Division, Medininagar vide letter no. 950, dated 18.10.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Medininagar vide letter no. 1634, dated 03.04.2018 certified that the distance of notified forest is 255 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Palamau vide letter no. 1776, dated 16.10.2021 has informed that this project is part of District Survey Report (DSR) of Palamau district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: Issued NOC on vide memo no. Nil dated 11.12.2017
8	Mine Plan Approval	: Letter No. 761/G, Hazaribagh dated 16.11.2021

**Working Details :**

1	Mining Method	: Opencast Mechanized.
2	Quarry Area	: Plan period – 1.612 ha
3	Waste Generation	: Plan period – 39,938 m <sup>3</sup>
4	Stripping Ratio	: 0.0718
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m and 6 benches.
7	Elevation of Mine	: 238m AMSL
8	Ground Level Elevation	: 220m AMSL
9	Ultimate Working Depth	: 206 m AMSL
10	Water Table	: 204 m AMSL
11	Topography of Mine	: Mild slope from South to North
12	Explosive Requirement	: 30,006 kg/year


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13	Diesel/Fuel requirement	:	NA (as DG set not required)
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**Production Details :**

Year	Production of stone (Cum)	Production of stone (Tonne)	OB (Cum)	Bench AMSL in Meters
1 <sup>st</sup>	1,11,132	3,00,056	20,244	236 - 218
2 <sup>nd</sup>	1,11,128	3,00,046	19,694	236 - 218
3 <sup>rd</sup>	1,11,126	3,00,040	-	224 - 212
4 <sup>th</sup>	1,11,135	3,00,065	-	218 - 206
5 <sup>th</sup>	1,11,127	3,00,043	-	212 - 206
<b>Total</b>	<b>5,55,648</b>	<b>15,00,250</b>	<b>39,938</b>	

**Land Use :**

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.612	2.305	Water Body
2	Office /Store	0.00	0.000	0.000	-
3	OB/ Waste dump	0.00	0.280	0.000	-
4	Road	0.00	0.020	0.010	-
5	Safety Zone	0.00	0.520	0.520	Green Belt
6	Unutilized	2.835	0.403	0.000	-
	<b>TOTAL</b>	<b>2.835</b>	<b>2.835</b>	<b>2.835</b>	

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

SL	LOCATION	Area/Length	No. of Trees
1	Safety Zone	: 0.520 ha	550 trees
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 0.15 km	150 trees

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

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

#### **Solid Waste Management**

- There is no waste to be generated.

#### **Water Quality Management**

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made in the outer part of safety barrier and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- Domestic waste water will not be generated.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.



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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Jamua Stone Mine of M/s Gautam Enterprises, Village : Jamua (Vishunpur), Tehsil : Chhatarpur, Dist. : Palamu, Jharkhand (2.835 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

6. Chaprakocha Stone Mine of M/s S.S. Mining (Partner : Sri Manoj Kumar Singhania), Village : Chaprakocha, Tehsil : Ormanjhi, Dist. : Ranchi, Jharkhand (1.823 Ha).

(Proposal No. : SIA/JH/MIN /237496 /2021).

Project Category : B2 – Application for Environment Clearance

EC Application for : Boulder Stone: 66720 Cu.M./ year i.e. 1,80,144 TPA

Name of the consultant: Crystal Consultants, Ranchi

This is a new project which has been taken for appraisal on 19.02.2022

**PROJECT AND LOCATION DETAILS:**

S.No.	Parameter	Details
1	Project Name	: Chaprakocha Stone Mine
2	Lessee:	: M/s S. S. Mining, (Partner: Sri Manoj Kumar Singhania)
3	Lease Address	: Mouza – Chaprakocha, Thana – Ormanjhi District – Ranchi, State – Jharkhand.
4	Lease Area	: Ha: 1.823 ha. Acres: 4.50 Ac.
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 89.60 Lakhs
7	EMP Budget	: Capital: 8.00 Lakhs Recurring: 4.00 Lakh / year
8	CSR / CER Budget	: Rs. 1.60 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu. M.: 3,43,680 Tonnes: 9,27,936 Tonnes



11	Mine Life	:	5 years
12	Man power	:	35
13	Water Requirement	:	10.50 KLD (Drinking: 1.0 KLD, Dust Suppression: 8.0 KLD, Plantation: 1.50 KLD)
14	Water Source	:	Dug well for drinking & River water for dust suppression/ green belt
15	DG Set / power	:	Not required
16	Crusher	:	Not within mine lease area
17	Nearest Water Body	:	Doma River 5.50 KM
18	Nearest Habitation	:	Kuchhu Village: 2.50 KM; Ormanjhi: 5.00 KM
19	Nearest Rail Station	:	Ranchi - 20.00 KM
20	Nearest Air Port	:	Ranchi - 25.00 KM
21	Nearest Forest	:	Not within 250m
22	Road & Highways	:	NH 33 – 05.00 KM; Ormanjhi – Kuchhu Road – 2.50 KM

#### CO-ORDINATES

1	Latitude	From 23° 30' 58.40" N	To 23° 31' 04.08" N
2	Longitude	From 85° 26' 56.05" E	To 85° 27' 03.08" E

#### LAND DETAILS :

	Mouza	Khata No.	Plot No.
1.	Chaprakocha	14	101
		96	99
		95	98
		93	97 (P)

#### STATUTORY CLEARANCES :

1	LOI/Lease docs	:	Loi has been issued by District Mining Office, Ranchi vide letter no. 664/M dated 06.07.2021.
2	CO	:	CO, Ormanjhi (Ranchi) vide letter no. 380(ii), dated 31.05.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Ranchi vide memo no. 691/M, dated 15.07.2021 certified that one lease (5.42 Acre) exists within 500 m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Ranchi vide letter no. 1158, dated 21.12.2021 certified that the National Park & Sanctuary is not within 10 km

		from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Ranchi vide letter no: 713, dated 26.02.2021 certified that the distance of notified forest is more than 250 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Ranchi vide letter no. 751/M, dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) of Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: Issued NOC on vide memo no. 439 (ii) dated 28.05.2021
8	Mine Plan Approval	: Memo No. 107/M, Ranchi dated 16.07.2021

**Working Details :**

1	Mining Method	: Opencast Mechanized.
2	Quarry Area	: Plan period – 1.213 ha
3	Waste Generation	: Plan period – 25,020 m <sup>3</sup>
4	Stripping Ratio	: 0.073 (overall stripping ratio)
5	Working Days	: 300
6	Bench: size & No	: 6m x 6m and 6 benches.
7	Elevation of Mine	: 658m AMSL
8	Ground Level Elevation	: 624m AMSL
9	Ultimate Working Depth	: 622 m AMSL
10	Water Table	: 615 m AMSL
11	Topography of Mine	: Mild slope from North- East to South- West.
12	Explosive Requirement	: 18,014 kg/year
13	Diesel/Fuel requirement	: NA (as DG set not required)

**Production Details :**

Year	Production of stone (Cum)	Production of stone (Tonne)	OB (Cum)	Bench AMSL in Meters
1 <sup>st</sup>	57,420	1,55,034	3,060	650 – 638
2 <sup>nd</sup>	64,800	1,74,960	21,960	652 – 632
3 <sup>rd</sup>	66,720	1,80,144	-	646 - 640
4 <sup>th</sup>	66,720	1,80,144	-	646 - 634
5 <sup>th</sup>	66,720	1,80,144	-	628 - 622
<b>Total</b>	<b>3,22,380</b>	<b>8,70,426</b>	<b>25,020</b>	

**Land Use :**

SL	Pattern	Existing Land Use	Proposed	Proposed Land Use	Land Usage at
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		(Ha)	Current Plan Period (Ha)	at End of Life of Mine (Ha)	Conceptual Stage
1	Mining Area	0.10	1.213	1.213	Water Body
2	Dump	0.00	0.000	0.000	
3	Office /Store	0.00	0.000	0.000	-
4	Crusher	0.00	0.000	0.000	-
5	Road	0.00	0.000	0.000	-
6	Safety Zone	0.00	0.610	0.610	Green Belt
7	Unutilized	1.723	0.000	0.000	-
	<b>TOTAL</b>	<b>1.823</b>	<b>1.823</b>	<b>1.823</b>	

## ENVIRONMENT MANAGEMENT

### Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.610 ha	670 trees
2	Other Reclaimed Area	:	NIL	NIL
3	Haul /Approach Road	:	0.05 km	55 trees

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

### Solid Waste Management

- There is no waste to be generated.

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be used for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made in the outer part of safety barrier and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be

constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside

- Domestic waste water will not be generated.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

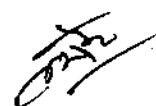
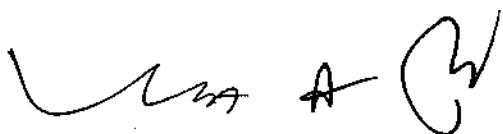
#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Chaprakocha Stone Mine of Sri Manoj Kumar Singhania,



Village : Chaprakocha, Tehsil : Ormanjhi, Dist. : Ranchi, Jharkhand (1.823 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

7. Bricks Soil Mining for M/s Super Bricks, Village : Bokada, Thana : Boram, Thana No. : 155, Dist. : East Singhbhum, Jharkhand (1.849 Ha).

(Proposal No. : SIA/JH/MIN/224760 /2021).

**Project Title** Brick Soil Mining For M/s Super Bricks, Proprietor: Sri Rajesh Kumar Prasad in Mouza - Bakada, Thana – Boram, Thana No. – 155, District – East Singhbhum, Jharkhand, over an area of 4.57 Acres (1.849 Ha).

**Proposal No. :** SIA/JH/MIN/224760/2021

**Project Category:** B2 – Application for Environment Clearance

**EC Application for:** Soil: 1200 Cu.M. / year i.e. Bricks 6,00,000 Numbers / year.

**Name of the consultant :** M/s Crystal Consultants, Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 19.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s Super Bricks in Mouza Bakada.
2	Lessee:	: M/s Super Bricks Proprietor: - Sri Rajesh Kumar Prasad At New Subhash Colony, Sanjay Path, Road No. – 06, Dimna Road, Mango, P.O +Thana - Mango, Jamshedpur, District – East Singhbhum, State - Jharkhand, Pin Code - 831012.
3	Lease Address	: In Mouza – Bakada, Thana – Boram, Thana No. – 155, District – East Singhbhum, Jharkhand.
4	Lease Area	: Ha: 1.849 Hectares      Acres: 4.57 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 10 Lakhs
7	EMP Budget	: Capital: 6.10 Lakhs      Recurring: 2.47 Lakh / year
8	CSR / CER Budget	: Rs. 0.20 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: 23,634 Cu. M.
11	Mine Life	: 20 years
12	Man power	: 10
13	Water Requirement	: 9.15 KLD {Dust Suppression: 5.5 KLD, Drinking: 0.40 KLD, Plantation: 3.25 KLD
14	Water Source	: From Nangasai River by tankers
15	DG Set / power	: No
16	Crusher	: No
17	Nearest Water Body	: Nangasai River is approx. 4.1 Km aerial distance away in North

		direction
18	Nearest Habitation	: Bangai village is approx. 550m aerial distance away in South-East direction
19	Nearest Rail Station	: Biramdih Railway Station is approx. 16.28 Km aerial distance away in North - West direction
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, Jharkhand is approx. 109.60 Km aerial distance away in North-West direction.
21	Nearest Forest	: 450m away from the proposed project.
22	Road & Highways	: Road: Bangai – Bankada - Patamda Road is approx. 300m away in South direction. Highway: NH-116B is approx. 10.40 Km away in North East direction.

**CO-ORDINATES :**

1	Latitude	From N22°56'37.93"	To N22°56'43.07"
2	Longitude	From E86°18'54.12"	To E86°19'02.58"

**LAND DETAILS :**

Khata No -	112
Plot No -	75, 91, 72, 90 & 92

**STATUTORY CLEARANCES :**

1	LOI / Lease docs	: Land agreement made.
2	CO	: The CO, Boram vide letter no. 300, dated 08.03.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyari or Register II.
3	DMO	: DMO, East Singhbhum, Jamshedpur vide letter no. 2237, dated 22.12.2018 certified that no other lease exist within 500m radius from proposed project site.
4	DFO Wild Life	: Division Forest Officer, Dalma Elephant Project, Jamshedpur vide letter no. 930, dated 07.09.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: Division Forest Officer, Jamshedpur Forest Division vide letter no. 3230, dated 11.12.2021 certified that the distance of notified forest is more than 250m from proposed project site.

6	DSR	: Project's name is mentioned in page no 34 of District Survey report (DSR) East Singhbhum.
7	Gram Sabha	: On 26.11.2018
8	Mine Plan Approval	: Approved by the Deputy Director, Geology, Daltonganj, Palamau vide Letter No. 424/G dated 31.01.2019

**Working Details :**

1	Mining Method	: Opencast Manual Mining and transportation by tippers.
2	Quarry Area	: 5 years – 0.352 Ha
3	Waste Generation	: 5 years – 690 Cu.M (Top Soil) Life of Mine – 1.361 Ha Life of Mine – 2723 Cu.M (Top Soil)
4	Stripping Ratio	: 1 : 0.115
5	Working Days	: 200 Days
6	Benches: size & No	: Size: 1m X 1.5m, No. - 2
7	Elevation of Mine	: Highest RL 263m AMSL, Lowest RL 262m AMSL
8	Ground Level Elevation	: 262m AMSL
9	Ultimate Working Depth	: 260m AMSL
10	Water Table	: 237m AMSL
11	Topography of Mine	: Flat Land.
12	Explosive Requirement	: No
13	Diesel/Fuel requirement	: 4 KL/year ( 20 Litres/day)

**Production Details :**

Year	Production of Sub Soil (Cum)	Production of Bricks (Numbers)	Top Soil Generation (CuM)	Bench RL in Meters
1st	1200	6,00,000	138	263m – 260m (Average 2m)
2nd	1200	6,00,000	138	263m – 260m (Average 2m)
3rd	1200	6,00,000	138	263m – 260m (Average 2m)
4th	1200	6,00,000	138	263m – 260m (Average 2m)
5th	1200	6,00,000	138	263m – 260m (Average 2m)
<b>Total</b>	<b>6000</b>	<b>30,00,000</b>	<b>690</b>	

Land Use						
SL	Pattern	Existing Land Use	Proposed Current	Proposed Land Use at End of	Proposed Land Use at End of	Land Usage at Conceptual

*(Handwritten signatures and marks)*

		(Ha)	Plan Period (Ha)	Life of Mine (Ha)	Life of Mine (Ha)	Stage
1	Mining Area (Quarry)	Nil	0.352	1.361	1.361	Grass cultivation will be done on it
2	Office /Store	Nil	Nil	Nil	Nil	
3	Road	0.001	0.005	Nil	Nil	
4	Green Belt Within Safety Barrier	Nil	0.479	0.479	0.479	Plantation
5	Blocked Area due to Road safety	Nil	0.009	0.009	0.009	Grass cultivation will be done on it
6	Unutilized	1.848	1.004	Nil	Nil	
	<b>TOTAL</b>	<b>1.849</b>	<b>1.849</b>	<b>1.849</b>	<b>1.849</b>	

## ENVIRONMENT MANAGEMENT

### Green Belt Development


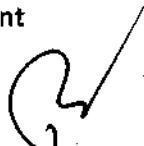



SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.479 Ha	1200 trees @ 2500 trees per Ha
2	Other Reclaimed Area Outside the project area	:	0.08 Ha	200 trees @ 2500 trees per Ha
3	Haul /Approach Road	:	0.06 Ha i.e. Length 300m width 2m	200 trees on both sides – 3m distance

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

### Solid Waste Management

- Waste (Top soil) Generation will be 2723 Cu.M. during the life of Mine.  
The fertile top soil will be preserved temporarily by dumping and then it will be spread concurrently over the excavated part of the land after the end of each year lifting up of brick soil and grass cultivation will be done on it.

### Water Quality Management



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

#### **Air Quality Management**

- No drilling and blasting is proposed.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

#### **Undertaking submitted affirming:**

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







Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bricks Soil Mining for M/s Super Bricks, Village : Bokada, Thana : Boram, Thana No. : 155, Dist. : East Singhbhum, Jharkhand (1.849 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – 1.

8. Chagjo Stone Deposit of Shri Noor Islam, Village : Chagjo, Thana : Ranga, Thana No. : 8, Dist. : Sahebganj, Jharkhand (1.619 Ha).

(Proposal No. : SIA/JH/MIN /255038 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Stone: 17,846 Cu.M. / year i.e. 53,538 Tonnes / year

Name of the Consultant: M/s Crystal Consultants, Ranchi, Jharkhand, 834002.

This is a new project which has been taken for appraisal on 19.02.2022

**PROJECT and LOCATION Details :**

Sl	Parameter	Details
1	Project Name	: Chagjo Stone Deposit
2	Applicant:	: Noor Islam At - Maharajpur, P.O. – Islampur, P.S. – Barharwa, District - Sahebganj, Jharkhand, Pin Code – 816101.
3	Lease Address	: In Mouza - Chagjo, Thana – Ranga, Thana No. – 8, District – Sahebganj, Jharkhand.
4	Applied Area	: Ha: 1.619 Hectares      Acres: 4.00 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 70 Lakhs
7	EMP Budget	: Capital: 12.11 Lakhs      Recurring: 4.01 Lakh / year
8	CSR / CER Budget	: Rs. 1.40 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 1,78,462 Cu. M.      Tonnes: 5,35,385 Tonnes
11	Mine Life	: 10 years
12	Man power	: 30
13	Water Requirement	: 10.375 KLD Dust Suppression: 4.5 KLD, Drinking: 1.2 KLD, , Plantation: 4.675 KLD
14	Water Source	: From Gumani River by tankers
15	DG Set / power	: 60 KVA
16	Crusher	: No
17	Nearest Water Body	: Gumani River is flowing approx. 2.38 Km aerial distance away in South - west direction
18	Nearest Habitation	: Chagjo village is situated approx. 0.67 Km aerial distance away in

		South direction Barharwa Town is situated approx. 5.24 Km aerial distance away in the South-East direction
19	Nearest Rail Station	: Barharwa Railway Station is situated approx. 5.40 Km aerial distance away in South-East direction. Bakudi Railway Station is situated approx. 5.83 Km aerial distance away in North-East direction
20	Nearest Air Port	: Netaji Subhash Chandra Bose International Airport, Kolkata, West Bengal is approx. 258.5 Km aerial distance away in South - East direction.
21	Nearest Forest	: More than 250m away from the proposed project.
22	Road & Highways	: Approach Road: Barharwa - Chagjo - Dulampur Road is approx. 220m away in east direction. Highway: NH-114A is approx. 3.95 Km away in South East direction.

**CO-ORDINATES :**

1	Latitude	From N24°53'28.89"	To N24°53'35.97"
2	Longitude	From E87°44'05.89"	To E87°44'09.75"

**LAND DETAILS :**

Jamabandi No -	9
Plot Nos -	19 (P)

**STATUTORY CLEARANCES :**

1	LOL/ Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Sahebganj, vide letter no. 1018/M dated 05.10.2021.
2	CO	: The CO, Pathna vide letter no. 07, dated 21.07.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan or Register II.
3	DMO	: DMO, Sahebganj, vide letter no. 13/M, dated 05.01.2022 certified that no other lease exists within 500m radius from proposed project site & total lease area is not more than 5 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1157, dated 06.07.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest	: Division Forest Officer, Sahebganj Forest Division vide letter no. 659, dated 11.03.2020 certified that the distance of notified forest is more

	Distance	:	than 250m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Sahebganj vide letter no. 1154/M, dated 29.11.2021 has informed that this project is part of District Survey Report (DSR) at Sahebganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On dated 07.05.2020
8	Mine Plan Approval	:	Approved by the District Mining Officer, Sahebganj vide Letter No. 1241 dated 27.12.2021

**Working Details :**

1	Mining Method	:	Opencast Mechanized Mining.
2	Quarry Area	:	5 years – 0.872 Ha- Life of Mine – 1.259 Ha
3	Waste Generation	:	5 years– 8677 Cu.M (Gritty Soil) Life of Mine – 16662 Cu.M (Gritty Soil)
4	Stripping Ratio	:	1 : 0.09
5	Working Days	:	300 Days
6	Benches: size & No	:	Size: 6m x 6m, No. - 7
7	Elevation of Mine	:	Highest RL 124m AMSL, Lowest RL 102m AMSL
8	Ground Level Elevation	:	75m AMSL
9	Ultimate Working Depth	:	78m AMSL
10	Water Table	:	66m AMSL
11	Topography of Mine	:	Sloppy land.
12	Explosive Requirement	:	13.8 Tons/year
13	Diesel/Fuel requirement	:	42 KL/year ( 140 Litres/day)

**Production Details :**

Year	Production of stone (Cum)	Production of stone (Tonne)	Waste (gritty soil) Generation (CuM)	Bench RL in Meters
1st	17846	53538	4177	120m – 108m
2nd	17845	53536	000	114m – 102m
3rd	17846	53538	4500	114m – 102m
4th	17845	53536	000	108m – 96m
5th	17846	53538	000	102m – 90m
<b>Total</b>	<b>89228</b>	<b>267686</b>	<b>8677</b>	

**Land Use :**

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine	Land Usage at Conceptual Stage

*(Handwritten signatures and initials)*

			(Ha)		(Ha)	
1	Mining Area (Quarry)	0.040	0.872	1.259 (including backfilling 0.126 Ha)	1.259	0.750 Ha Water Body + 0.509 Ha Dead bench Plantation
2	Green Belt Within Safety Barrier	Nil	0.360	0.360	0.360	Plantation
3	Road	Nil	0.005	Nil	Nil	-
4	Dump	Nil	0.174	Nil	-	-
	Parapet Wall	Nil	0.011	Nil	-	-
	Garland Drain	Nil	0.015	Nil	-	-
5	Unutilized	1.579	0.182	Nil	Nil	-
	<b>TOTAL</b>	<b>1.619</b>	<b>1.619</b>	<b>1.619</b>	<b>1.619</b>	

## ENVIRONMENT MANAGEMENT

### Green Belt Development

SL	Location		Area/Length	No of Trees
1	Safety Zone	:	0.36 Ha	900 trees @ 2500 trees per Ha
2	Dead Bench Plantation	:	0.509 Ha	1273 trees @ 2500 trees per Ha
3	Haul /Approach Road	:	0.044 Ha i.e. Length 220 width 2m	148 trees on both sides – 3m distance

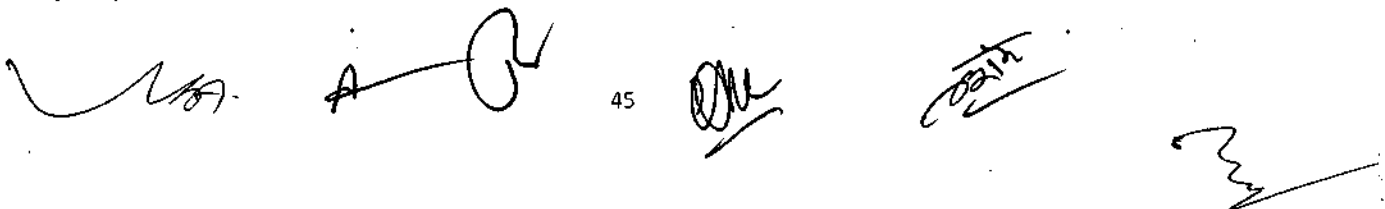
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

### Solid Waste Management

- Waste (gritty soil) Generation will be 16662 Cu.M. during the life of Mine.

The area is covered with a layer of Gritty soil of about 1.5m in thickness. During quarry development in 1st & 3rd year, huge amount of gritty soil will be removed and this soil will be temporarily dumped [1st year (L x W x H =32m x 21m x 5m) & 3rd year (L x W x H =30m x 29m x 5m)] at the southern part of the area with suitable precautions like parapet wall and garland drain. In conceptual period total removal Gritty soil will be backfilled within the exhausted quarry.

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### Water Quality Management

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

### Air Quality Management

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

### Undertaking submitted affirming :

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

- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required a permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Chagjo Stone Deposit of Shri Noor Islam, Village : Chagjo, Thana : Ranga, Thana No. : 8, Dist. : Sahebganj, Jharkhand (1.619 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

9. Brick Soil Mining for M/s R.D. Bricks, Village : Kumharh, Thana : Sadar Medininagar, Thana No. : 271, Dist. : Palamu, Jharkhand (0.404 Ha).

**Project Title** Brick Soil Mining For M/s R.D. Bricks, Proprietor: Sri Virendra Dubey in Mouza - Kumharh (Barkagaon), Thana – Sadar Medininagar, Thana No. – 271, District – Palamu, Jharkhand, over an area of 1.00 Acres (0.404 Ha).

**Proposal No. :** SIA/JH/MIN/250225/2022

**Project Category:** B2 – Application for Environment Clearance

**EC Application for:** Soil: 1140 Cu.M. / year i.e. Bricks 6,00,000 Numbers / year.

**Name of the consultant :** M/s Crystal Consultants, Ranchi, Jharkhand, 834002.

This is a new project which has been taken for appraisal on 19.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s R.D. Bricks in Mouza – Kumharh (Barkagaon).
2	Lessee:	: M/s R.D. Bricks Proprietor: Sri Virendra Dubey S/o – Muneshwar Dubey At 60 Kudwa, Patan, P.O.- Sirma, District – Palamu, State – Jharkhand, Pin Code – 822123.
3	Lease Address	: In Mouza - Kumharh (Barkagaon), Thana – Sadar Medininagar, Thana No. – 271, District – Palamu, Jharkhand.
4	Lease Area	: Ha: 0.404 Hectares      Acres: 1.00 Acres

5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	08 Lakhs
7	EMP Budget	:	Capital: 3.50 Lakhs      Recurring: 2.17 Lakh / year
8	CSR / CER Budget	:	Rs. 0.16 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 5774 Cu. M.
11	Mine Life	:	5 years
12	Man power	:	10
13	Water Requirement	:	8.82 KLD (Dust Suppression: 7.2 KLD, Drinking: 0.40 KLD, Plantation: 1.22 KLD)
14	Water Source	:	From Amanat River by tankers
15	DG Set / power	:	No
16	Crusher	:	No
17	Nearest Water Body	:	Amanat River is approx. 162m aerial distance away in North direction
18	Nearest Habitation	:	Dhangardiha village is approx. 600m aerial distance away in North-West direction
19	Nearest Rail Station	:	Kajri Railway Station is approx. 4.40 Km aerial distance away in North - West direction
20	Nearest Air Port	:	Gaya International Airport, Gaya, Bihar is approx. 112.08 Km aerial distance away in North-East direction.
21	Nearest Forest	:	8 Km away from the proposed project.
22	Road & Highways	:	Road: Patan road is 610m away from the applied area in West direction. Highway: SH-10 is approx. 2.62 Km away in South- East direction.

**CO-ORDINATES :**

1	Latitude	From N24°04'47.20"	To N24°04'49.00"
2	Longitude	From E84°06'47.80"	To E84°06'50.90"

**LAND DETAILS :**

Khata No -	107	64
Plot No -	35(P)	38(P)

**STATUTORY CLEARANCES :**

1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Sadar Medninaragar vide letter no. 638, dated 15.09.2017 has mentioned the plot no. of the project is not recorded as "Jangle Jhari"

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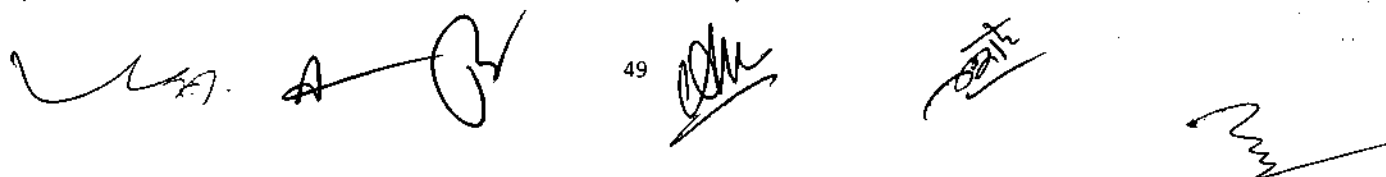
		in Khatiyān.
3	DMO	: DMO, Palamu, Medninagar vide memo no. 1187/M, dated 12.10.2017 certified that no other lease exist within 500m radius from proposed project site & total lease area is less than 5 Ha.
4	DFO Wild Life	: Deputy Director, Core area Palamu Tiger Reserve vide letter no. 1187, dated 21.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: Division Forest Officer, Medninagar Forest Division vide letter no. 4639, dated 09.09.2017 certified that the distance of notified forest is more than 250m from proposed project site.
6	DSR	: Project's name is mentioned in page no 34, serial no 60 of District Survey report (DSR) Palamu.
7	Gram Sabha	: On 05.05.2017
8	Mine Plan Approval	: Approved by the Deputy Director, Geology, Palamu vide Memo No. 185/G dated 11.11.2017

#### Working Details :

1	Mining Method	: Opencast Manual Mining and transportation by tippers.
2	Quarry Area	: 5 years – 0.343 Ha      Life of Mine – 0. 343 Ha
3	Waste Generation	: 5 years– 686 Cu.M (Top Soil)      Life of Mine – 686 Cu.M (Top Soil)
4	Stripping Ratio	: 1 : 0.12
5	Working Days	: 200 Days
6	Benches: size & No	: Size: 1m X 1.5m, No. - 2
7	Elevation of Mine	: Highest RL 216m AMSL, Lowest RL 215m AMSL
8	Ground Level Elevation	: 215m AMSL
9	Ultimate Working Depth	: 213m AMSL
10	Water Table	: 204m AMSL
11	Topography of Mine	: Flat Land.
12	Explosive Requirement	: No
13	Diesel/Fuel requirement	: 4 KL/year ( 20 Litres/day)

#### Production Details :

Year	Production of Sub Soil (Cum)	Production of Bricks (Numbers)	Top Soil Generation (CuM)	Bench RL in Meters
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1st	1140	6,00,000	137.2	216m – 214m
2nd	1140	6,00,000	137.2	216m – 214m
3rd	1140	6,00,000	137.2	216m – 214m
4th	1140	6,00,000	137.2	215m – 213m
5th	1140	6,00,000	137.2	215m – 213m
<b>Total</b>	<b>5700</b>	<b>30,00,000</b>	<b>686.0</b>	

**Land Use :**

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area (Quarry)	Nil	0.343	0.343	0.343	Grass cultivation will be done on it
2	Office /Store	Nil	Nil	Nil	Nil	
3	Road	Nil	Nil	Nil	Nil	
4	Green Belt Within Safety Barrier	Nil	0.061	0.061	0.061	Plantation
5	Unutilized	0.404	0.459	Nil	Nil	
	<b>TOTAL</b>	<b>0.404</b>	<b>0.404</b>	<b>0.404</b>	<b>0.404</b>	

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.061 Ha	153 trees @ 2500 trees per Ha
2	Other Reclaimed Area Outside the project area	-	-
3	Haul /Approach Road	0.122 Ha i.e. Length 610m width 2m	408 trees on both sides – 3m distance

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

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

#### **Solid Waste Management**

- Waste (Top soil) Generation will be 686 Cu.M. during the life of Mine.

The fertile top soil will be preserved temporarily by dumping and then it will be spread concurrently over the excavated part of the land after the end of each year lifting up of brick soil and grass cultivation will be done on it.

#### **Water Quality Management**



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

#### **Air Quality Management**

- No drilling and blasting is proposed.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

#### **Undertaking submitted affirming:**

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.







- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required a permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining for M/s R.D. Bricks, Village : Kumharh, Thana : Sadar Medininagar, Thana No. : 271, Dist. : Palamu, Jharkhand (0.404 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

10. Brick Soil Mining for M/s Taj Bricks, Village : Chora, P.S. : Chanho, Thana No. : 22, Dist. : Ranchi, Jharkhand (0.96 Ha).

(Proposal No. : SIA/JH/MIN/225115 /2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Soil: 1200 Cu.M. / year i.e. Bricks 6,00,000 Numbers / year.

Name of the Consultant: M/s Crystal Consultants, Ranchi, Jharkhand.

This is a new project which has been taken for appraisal on 19.02.2022.

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Brick Soil Mining For M/s Taj Bricks in Mouza – Chora.
2	Lessee address	: M/s Taj Bricks Proprietor: Md. Mumtaj Khan S/o – Md. Isarail Khan At Village – Pathkoi, P.O- Murupiri, P.S- Burmu, District – Ranchi, State – Jharkhand, Pin Code – 835214.
3	Lease Address	: In Mouza - Chora, Thana – Chanho, Thana No. – 22, District – Ranchi, Jharkhand
4	Lease Area	: Ha: 0.96 Hectares      Acres: 2.37 Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 07 Lakhs
7	EMP Budget	: Capital: 3.35 Lakhs      Recurring: 2.14 Lakh / year
8	CSR / CER Budget	: Rs. 0.14 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 9,688 Cu. M.

11	Mine Life	:	8 years
12	Man power	:	10
13	Water Requirement	:	4.70 KLD (Dust Suppression: 2.5 KLD, Drinking: 0.40 KLD, Plantation: 1.8 KLD)
14	Water Source	:	From Saphi River by tankers
15	DG Set / power	:	No
16	Crusher	:	No
17	Nearest Water Body	:	Saphi River is approx. 2.82 Km aerial distance away in North - East direction
18	Nearest Habitation	:	Chora village is approx. 620m aerial distance away in South -East direction
19	Nearest Rail Station	:	Khalari Railway Station is approx. 9.38 Km aerial distance away in North direction
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi is approx. 41.97 Km aerial distance away in South - East direction.
21	Nearest Forest	:	350m away from the proposed project.
22	Road & Highways	:	Highway: SH-7 is approx. 30m away in East direction.

**CO-ORDINATES :**

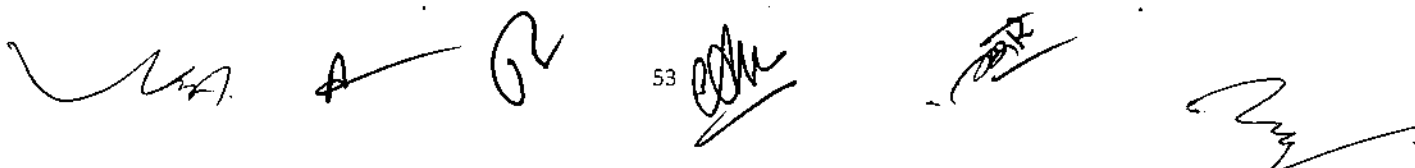
1	Latitude	From N23°33'58.54"	To N23°34'01.81"
2	Longitude	From E85°00'50.48"	To E85°00'56.46"

**LAND DETAILS :**

<b>Khata No -</b>	91
<b>Plot No -</b>	960, 970 & 973

**STATUTORY CLEARANCES :**

1	LOI / Lease docs	:	Land agreement made.
2	CO	:	The CO, Chanho, Ranchi, vide letter no. 5(ii), dated 09.01.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar or Register II.
3	DMO	:	DMO, Ranchi vide memo no. 724/M, dated 02.08.2021 certified that no other lease exist within 500m radius from proposed project site.
4	DFO Wild Life	:	Division Forest Officer, Wild Life Division, Ranchi, vide memo no. 1020, dated 16.09.2019 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is


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		not situated in any ESZ.
5	DFO Forest Distance	: Division Forest Officer, Ranchi Forest Division vide letter no. 903, dated 14.03.2018 certified that the distance of notified forest is 350 m from proposed project site.
6	DSR	: Project's name is mentioned in page no 169 of District Survey report (DSR) Ranchi.
7	Gram Sabha	: On 26.01.2018
8	Mine Plan Approval	: Approved by the Assistant Mining Officer, Ranchi vide Letter No. 425 dated 09.05.2018.

**Working Details :**

1	Mining Method	: Opencast Manual Mining and transportation by tippers.
2	Quarry Area	: 5 years – 0.375 Ha      Life of Mine – 0.574 Ha
3	Waste Generation	: 5 years– 710 Cu.M (Top Soil)      Life of Mine – 1143 Cu.M (Top Soil)
4	Stripping Ratio	: 1 : 0.12
5	Working Days	: 200 Days
6	Benches: size & No	: Size: 1m X 1.5m, No. - 2
7	Elevation of Mine	: Highest RL 627m AMSL, Lowest RL 626m AMSL
8	Ground Level Elevation	: 626m AMSL
9	Ultimate Working Depth	: 625m AMSL
10	Water Table	: 613m AMSL
11	Topography of Mine	: Flat Land.
12	Explosive Requirement	: No
13	Diesel/Fuel requirement	: 4 KL/year. ( 20 Litres/day)

**Production Details :**

Year	Production of Sub Soil (Cum)	Production of Bricks (Numbers)	Top Soil Generation (CuM)	Bench RL in Meters
1st	1200	6,00,000	142	626m – 624m
2nd	1200	6,00,000	142	626m – 624m
3rd	1200	6,00,000	142	626m – 624m
4th	1200	6,00,000	142	626m – 624m
5th	1200	6,00,000	142	626m – 624m
<b>Total</b>	<b>6000</b>	<b>30,00,000</b>	<b>710</b>	

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Land Use :

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area (Quarry)	Nil	0.375	0.574	0.574	Grass cultivation will be done on it
2	Green Belt Within Safety Barrier	Nil	0.351	0.351	0.351	Plantation
3	Road	0.001	0.013	-	-	
4	Blocked Area due to Road safety	Nil	0.035	0.035	0.035	Grass cultivation will be done on it
5	Unutilized	0.959	0.186	Nil	-	
	<b>TOTAL</b>	<b>0.960</b>	<b>0.960</b>	<b>0.960</b>	<b>-</b>	

## ENVIRONMENT MANAGEMENT

### Green Belt Development

SL	Location	Area/Length	No of Trees
1	Safety Zone	0.351 Ha	878 trees @ 2500 trees per Ha
2	Other Reclaimed Area Outside the project area	-	-
3	Haul /Approach Road	0.006 Ha i.e. Length 30m width 2m	20 trees on both sides – 3m distance

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

### Solid Waste Management

- Waste (Top soil) Generation will be 1143 Cu.M. during the life of Mine.  
The fertile top soil will be preserved temporarily by dumping and then it will be spread concurrently over the excavated part of the land after the end of each year lifting up of brick soil and grass cultivation will be done on it.

### Water Quality Management

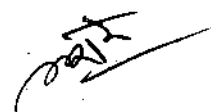
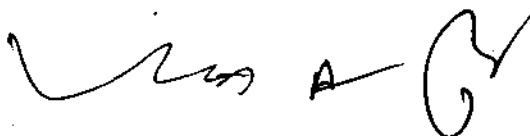
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall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

### Air Quality Management

- No drilling and blasting is proposed.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

### Undertaking submitted affirming:

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





Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Brick Soil Mining for M/s Taj Bricks, Village : Chora, P.S. : Chanho, Thana No. : 22, Dist. : Ranchi, Jharkhand (0.96 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

11. (i) Vasundhara Elegance (ii) Vasundhara Megamart (iii) Vasundhara Radiance of M/s Vasundhara Homes Pvt. Ltd. at Mouza : Argora, Tehsil : Argora, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/71899/2022).

Name of the consultant : Crystal Consultants, Ranchi

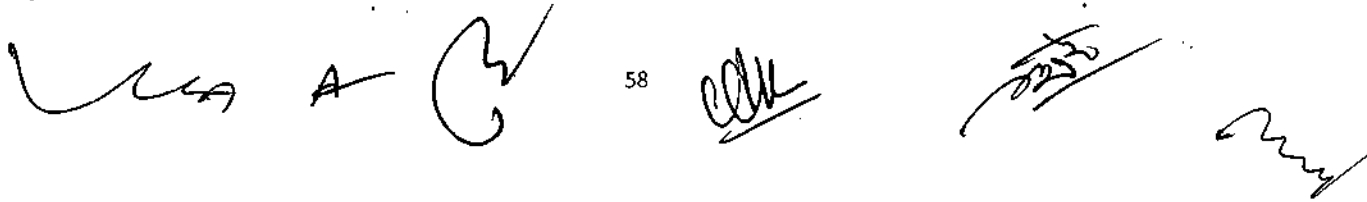
This is a case of violation which has been taken for appraisal on 19.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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

**Salient Features of the Project :**

Particular	Details
Plot Area as per allotment	Total Plot Area as per Deed : 9324.11 Sq. m.
Latitude & Longitude	23°21'07" N 85°17'58" E
Built – Up Area	Built – Up Area : 27929.00 Sq. m. 1. Community Hall : 469.07 Sq. m. 2. Commercial Building (Block – A) : 2770.65 Sq. m. 3. Residential Building (Block – B) : 10469.43 Sq. m. 4. Residential Building (Block – C) : 14220.33 Sq. m.
Plot No.	1781, 1782 (P), 1735 (P)
Khata No.	34
Number of Floor	1. Community Hall : G+2 2. Commercial Building (Block – A) : LG+G+5 3. Residential Building (Block – B) : LG+G+10 4. Residential Building (Block – C) : LG+G+14
Number of Block	4 Blocks 1. Community Hall 2. Commercial Building (Block – A) 3. Residential Building (Block – B) 4. Residential Building (Block – C)
Building configuration	1. Commercial Building (Block – A)

	Shop on Street Level : 10 Shop above Street Level : 10 Office : 15 2. Residential Building (Block – B) 2 BHK : 10 3 BHK : 70 3. Residential Building (Block – C) 3 BHK : 112
FAR	2.99
Ground Covered Area	3059.04 Sq. m.
Population	<b>1754</b> 1. Community Hall : 94 2. Commercial Building (Block – A) : 404 3. Residential Building (Block – B) : 517 4. Residential Building (Block – C) : 739
Municipal Solid Waste	1. Community Hall : 56.29 2. Commercial Building (Block – A) : 242.52 3. Residential Building (Block – B) : 310.20 4. Residential Building (Block – C) : 443.52
Bio-Degradable (40 % of MSW)	1. Community Hall : 22.52 2. Commercial Building (Block – A) : 97.01 3. Residential Building (Block – B) : 124.08 4. Residential Building (Block – C) : 177.41
Non – Biodegradable (60% of MSW)	1. Community Hall : 33.77 2. Commercial Building (Block – A) : 145.51 3. Residential Building (Block – B) : 186.12 4. Residential Building (Block – C) : 266.11
Power Requirement	Community Hall : 75 KVA Commercial Building (Block – A) : 129 KVA Residential Building (Block – B) : 400 KVA Residential Building (Block – C) : 560 KVA For Common Services : 50 KVA <b>TOTAL : 1214 KVA</b> Source – Jharkhand State Electricity Board  Back-up Power (DG Set) Community Hall : 35 KVA Commercial Building (Block – A) : 62.5 KVA Residential Building (Block – B) : 125 KVA Residential Building (Block – C) : 112 KVA For Common Services : 25 KVA <b>TOTAL : 359.5 KVA</b>
Back – Up Power	<u>Back-up Power (DG Set)</u> Community Hall : 35 KVA


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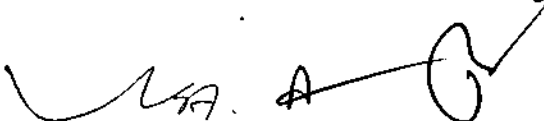
	Commercial Building (Block – A) : 62.5 KVA Residential Building (Block – B) : 125 KVA Residential Building (Block – C) : 112 KVA For Common Services : 25 KVA <b>TOTAL : 359.5 KVA</b>
Parking	1. Community Hall : 10 Cars 2. Commercial Building (Block – A) : 12 Cars 3. Residential Building (Block – B) : 80 Cars 4. Residential Building (Block – C) : 112 Cars
Fresh Water Demand	128.32 KLD
Treated Water Demand	134.94 KLD
Total Water Demand	263.27 KLD
STP	170.00 KLD
Project cost	Rs. 26.61 Crores
No. of RWH Pits	3 Pits
Height	48 m

#### STATUTORY CLEARANCE

- Building Plan Approved by Ranchi Municipal Corporation vide Memo No. BP02/2014/930 (933/2014/A), Dated 07/02/2017.
- Airport Authority of India issued a height clearance NOC vide its NOC ID – RANC/EAST/B/021116/120948, dated 01/03/2016.
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. 120, Dated 15/02/2016
- The DFO, Wildlife Ranchi Vide Letter No. 836 Dated 25/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- The DFO, Ranchi Division vide Letter No. 2725 Dated 28/09/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Argora, Ranchi vide Letter No. 89 (ii), Dated 03/02/2022 has mentioned plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & 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 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.






- ii. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

**12. P & M Hi-Tech City Centre Mall of M/s P & M and Hi-Tech Infrastructures LLP at Mauza : Jugsalai, Tehsil : Dhalbhum, Dist. : East Singhbhum, Jharkhand**

**(Proposal No : SIA/JH/MIS /72005/2022).**

**Name of the consultant : Crystal Consultants, Ranchi**

This is a case of violation which has been taken for appraisal on 19.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM. no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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





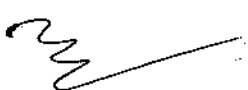
**Salient Features of the Project :**

Particular	Details		
<b>Project Name</b>	P & M Hi-Tech City Centre Mall		
<b>Proponent</b>	P & M Infrastructure Pvt. Ltd. P & M Hitech City Centre Mall, 3rd Floor, Bistupur, Jamshedpur – 831001 (Jharkhand)		
<b>Type of Building</b>	Commercial Building		
<b>Latitude</b>	22°47'06.09" N		
<b>Longitude</b>	86°10'43.95" E		
<b>Khata No.</b>	2		
<b>Plot No.</b>	952 (P)	966 (P)	973 (P)
<b>Mauza</b>	Jugsalai		
<b>Tehsil</b>	Dhalbhum		
<b>District</b>	East Singhbhum		
<b>State</b>	Jharkhand		
<b>Plot Area</b>	12625.033 m <sup>2</sup> (as per sale deed i.e. 3.12 Acres)		
<b>Tree Cover</b>	2525 m <sup>2</sup>		
<b>Ground Coverage</b>	7145.77 m <sup>2</sup> (56.60 %)		
<b>Permissible FAR</b>	3.00		
<b>Consumed FAR</b>	2.72		
<b>Height</b>	42 m (from Ground Level)		
<b>Total Built-Up Area &amp; its break - up</b>	51990.00 m <sup>2</sup>		
	<b>Floor</b>	<b>Total Proposed Built-Up Area (m<sup>2</sup>)</b>	
	Basement First Floor	7472.20	
	Basement Floor	7248.28	

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	Ground Floor	7155.67
	First Floor	7732.50
	Second Floor	7431.71
	Third Floor	7427.45
	Fourth Floor	1577.38
	Fifth Floor	990.80
	Sixth Floor	990.80
	Seventh Floor	990.80
	Eighth Floor	990.80
	Ninth Floor	990.80
	Tenth Floor	990.80
	<b>TOTAL</b>	<b>51990.00</b>
<b>No. of Floor</b>	2 Basement + G+10	
<b>No. of Building Block</b>	1	
<b>No. of Tenement</b>	259	
<b>Population</b>	5050	
<b>Municipal Solid Waste</b>	<b>3030.00 Kg</b> Bio-degradable :1212.00 Kg Non-Bio-degradable : 1818.00 Kg	
<b>Parking</b>	4 Wheeler : 330 2 Wheeler : 345 Area for Parking : 10256.04 m <sup>2</sup>	
<b>Power Requirement</b>	1800 KVA Source - TSUIL (Tata Steel Utility and Infrastructure Services Limited)	
<b>Solar Power / Renewal Energy</b>	360 KVA	
<b>Power Back-up</b>	1250 KVA	
<b>Fresh Water Demand</b>	71.06 KLD	
<b>Treated Water Demand</b>	88.85 KLD	
<b>Total Water Demand</b>	159.91 KLD	
<b>Volume of Waste Water</b>	120.70 KLD	
<b>Capacity of STP</b>	130.00 KLD	
<b>Volume of Treated Water</b>	96.56 KLD	
<b>Project Cost</b>	Rs. 151.92 Crores	
<b>No. of RWH Pits</b>	4 pits	

**STATUTORY CLEARANCE**



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- Building Plan Approved by Jamshedpur Notified Area Corporation vide Building Permit Number : 28846, Dated : 31/05/2017.
- Airport Authority of India issued a height clearance NOC vide its NOC ID – JAMS/EAST/B /102221/630005, dated 08/11/2021.
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. – 4141/Tech./ 2021, dated 22/12/2021.
- The DFO, Dalma Elephant Project Jamshedpur Vide Letter No. 1939 Dated 13/12/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- The DFO, Jamshedpur Division vide Letter No. 3082 Dated 29/11/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Jamshedpur vide Letter No. 2190 Dated 31/11/2021 has mentioned plot no. of the project is not recorded as “Jangle Jhari” in R.S Khatiyan & 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 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

13. “Nucleus Heights” of M/s Arrowline Real Estate Pvt. Ltd., Village : Misirgonda, Tehsil : Kanke, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/247769 /2021).

Name of the consultant : Crystal Consultants, Ranchi

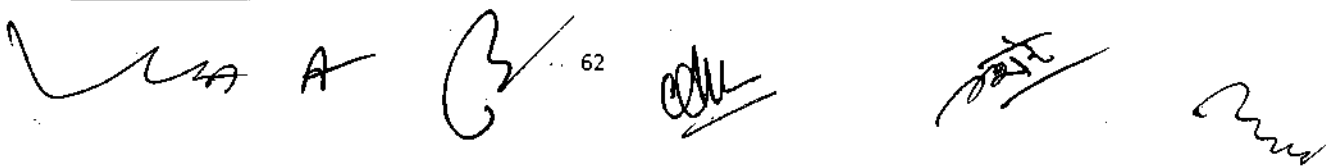
This is a new project which has been taken for appraisal on 19.02.2022.

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






Salient Features of the Project :

Particular	Details
Project Name	“Nucleus Heights” of M/s Arrowline Real Estate Pvt. Ltd.
Proponent	Ms Arrowline Realestate Pvt Ltd Through Md Shri Bishnu Kumar Agarwala Address : Adarsh Heights Pvt.Ltd. (Nucleus Mall),Circular Road ,Near East Jail More ,Ranchi, Jharkhand

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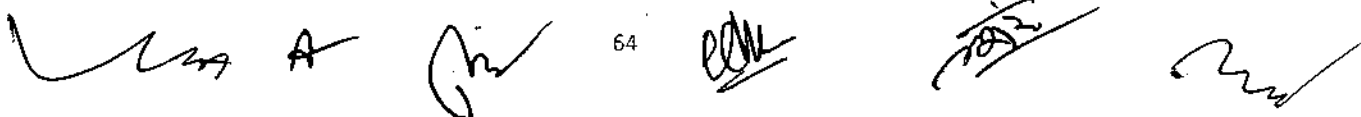
	Email ID :- bka@kushulgroup.com		
	Mobile No. :- 9830152490		
Type of Building	Commercial Building		
Latitude	23°24'11.78"N		
Longitude	85°18'55.74"E		
Khata No.	72	184	271
Plot No.	1772	1774, 1775	1773
Mauza	Misirgonda		
Tehsil	Kanke		
District	Ranchi		
State	Jharkhand		
Plot Area	4294.14 m <sup>2</sup> (as per sale deed)		
Tree Cover	368.83 m <sup>2</sup> (8.59 %)		
Ground Coverage	1184.27 m <sup>2</sup> (33.27 %)		
Permissible FAR	3.00 +0.21 = 3.21		
Consumed FAR	3.17		
Height	41.25 m (from Ground Level)		
Total Built-Up Area & its break – up	20331.48 m <sup>2</sup>		
	<b>Floor</b>	<b>Total Proposed Built-Up Area (m2)</b>	
	Basement First Floor	2560.20	
	Basement Floor	2462.80	
	Ground Floor	1238.02	
	First Floor	1625.69	
	Second Floor	1625.69	
	Third Floor	1205.77	
	Fourth Floor	1474.74	
	Fifth Floor	1474.72	
	Sixth Floor	1474.80	
	Seventh Floor	1474.80	
	Eighth Floor	1505.02	
Ninth Floor	1517.87		



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	Tenth Floor	572.94
	Terrace Floor	118.43
	<b>TOTAL</b>	<b>20331.49</b>
<b>No. of Floor</b>	G+10	
<b>No. of Building Block</b>	1	
<b>No. of Tenement</b>	43	
<b>Population</b>	1566	
<b>Municipal Solid Waste</b>	939.32 Kg	
<b>Parking</b>	4 Wheeler : 139 2 Wheeler : 431 Area for Parking : 5952.22 m <sup>2</sup>	
<b>Power Requirement</b>	700 KVA <i>Source – Jharkhand State Electricity Boord</i>	
<b>Power Back-up</b>	250 KVA 2 DG Set having capacity 125KVA each.	
<b>Fresh Water Demand</b>	36.42 KLD	
<b>Treated Water Demand</b>	43.06 KLD	
<b>Total Water Demand</b>	79.48 KLD	
<b>Capacity of Waste Water</b>	53.83 KLD	
<b>Capacity of STP</b>	65 KLD	
<b>Project Cost</b>	Rs 143.737 Crores	
<b>No. of RWH pits</b>	3 pits	

#### STATUTORY CLEARANCE

- Building Plan Approved by Ranchi Municipal Corporation vide Memo No. : RMC/BP/0528 /W02/2019 dated : 22/08/2029.
- Airport Authority of India issued a height clearance NOC vide its NOC ID – RANC/EAST/ B/092521/621068, Dated 01/10/2021.
- IGBC Registration No. :NBT 200009, dated : 06/07/2020
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. 1581/TK, Dated 27/06/2019
- The DFO, Wildlife Ranchi Vide Letter No. 805 Dated 14/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.





- The DFO, Ranchi Division vide Letter No. 245 Dated 21/01/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Hehal vide Letter No. 1035 (ii) Dated 31/12/2020 has mentioned plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

Based on the presentation made and information provided, the Committee decided that the proposal for "Nucleus Heights" of M/s Arrowline Real Estate Pvt. Ltd., Village : Misirgonda, Tehsil : Kanke, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith following specific condition :

- I. Green belt should be developed & maintained in not less than 15% of project area.
- II. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review
- III. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- IV. All raw material to be stored only under covered shed.
- V. PAs to ensure ZERO DISCHARGE for its process discharges.
- VI. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.

14. Sitagarh Stone Mine of M/s Abhen Mining & Engineering Work Pvt. Ltd., Village : Sitagarh and Sreerampur, P.S. : Pakur, Dist. : Pakur, Jharkhand (2.11 Ha).

(Proposal No. : SIA/JH/MIN/254632 /2022).

The Project Authorities vide letter dated 19.02.2022 requested to defer appraisal of the proposal for next meeting. The Committee considered the request and accepted the same.

Day 3 : February 20, 2022 [Sunday]

### Consideration of Proposals

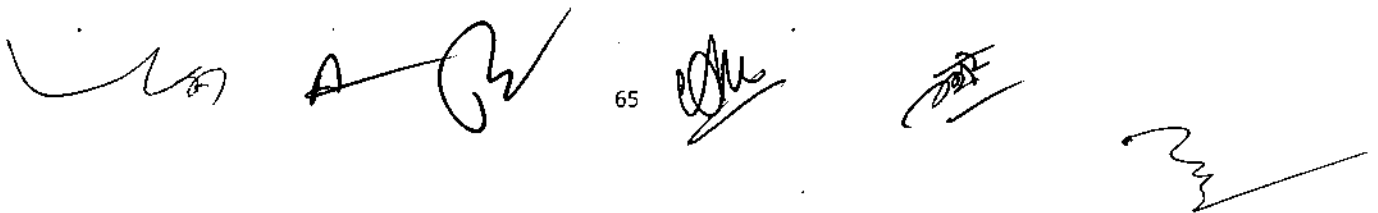
1. Residential & Commercial Building "Siddhartha Maison" of M/s Shridhar Real Estates Pvt. Ltd., Vill: Pundag, Thana : Jagarnathpur, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/ MIS/250633 /2022).

Name of the consultant : P & M SOLUTION, Noida

This is a new project which has been taken for appraisal on 20.02.2022.

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

**Salient Features of the Project :**

Parameters	Description
Plot Area	7201.98 sq.m
Project Cost	INR 76.14 Crores
Built-up Area	<b>33621.57 square meter</b>
Green Area	2376.65 sq m (33% of plot area)
Population	681
Water Requirement	90 KLD
Fresh Water Requirement	55 KLD
Wastewater Generation	75 KLD
STP Capacity	100 KLD
Total Municipal Waste	311 kg/day
Power Requirement	1050 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 150 KVA
RWH Pits	03 no.
Parking	1403 no.
Connecting road	The project site is well connected with road. 9.14 m wide road abuts project site in North direction.
National Highway	NH 75 (770 m, E) 9.14 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.0 km, E)
Airport	Birsa Munda Airport, (3.4 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.0 Km, SE) Raj Hospital (3.3 km, ENE)
Nearest Water Bodies	Pipartoli (360 m, N) Argora Talab (660 m, ENE)

**CO-ORDINATES :**

1	Latitude	From 23°21'21.73"N	To 23°35'65.80"N
2	Longitude	From 85°16'23.07"E	To 85°27'33.97"E



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**LAND DETAILS**

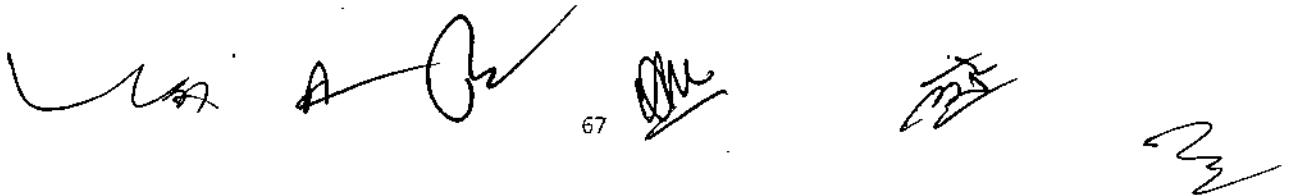
1	Village - Pundag, Tehsil- Ranchi	Khata No.-247	Plot No. 593, 594
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**STATUTORY CLEARANCES :**

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 1930, dated 29.07.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 1143, dated 15.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Nagri, Ranchi vide letter no. 1383, dated 31.12.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/101720/503290 dated 04.12.2020.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 3190/tech dated 06.10.2021.
6	Building Plan	:	Approved Building Plan

**Area Summary**

S. NO.	DESCRIPTION	AREA (SQ M)
A.	<b>Total plot area</b>	<b>7201.98</b>
B.	Proposed Ground Coverage (@32.98% of plot area)	2375.50
C.	Proposed FAR (@ 3.47)	25002.05
D.	Non FAR Area (Strain case, Lift, Balcony, Ramp, Accessory Use, Basement Parking)	8619.53
E.	<b>Built-up Area (C+D)</b>	<b>33621.57</b>
F.	Green Area (@33% of net plot area)	2376.65
G.	Drive way & Open Area/paved area (@ 34%)	2449.78
H.	Height (m)	52
I.	No of Dwelling Units	167

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### Calculations for Total Daily Water Demand

Category	Population/ Area (sq m)/Capacity	Standard (LPCD)	Water Requirem ent (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
<b>Domestic</b>					
Residents	554	135	75	53	22
Staff	28	45	2	0.6	1.4
Visitors	55	15	1	0.7	0.3
Commercial	44	45	2	0.6	1.4
<b>Total Domestic Water Demand</b>			<b>80</b>	<b>55</b>	<b>25</b>
Landscape	2376.65 sqm	3 ltr/sqm	7	-	7
Fire Fighting			1	-	1
DG cooling	150 KVA	0.9 l/kVA/hr	2	-	2
<b>Total</b>		-	<b>90</b>	<b>55</b>	<b>35</b>

### Wastewater Calculations

Category	Total Quantity (KLD)
Domestic water Req.	55
Flushing water Req.	25
Sewage generation (@90% of the Domestic + 100% flushing water requirement)	75
Capacity of STP	100
Recovered water from STP (90% of Waste water)	68
1. Flushing	25
2. Landscaping	7
3. Fire Fighting	1
4. DG cooling	2
5. Construction in nearby areas/road washing/sewer	33

### ENVIRONMENT MANAGEMENT

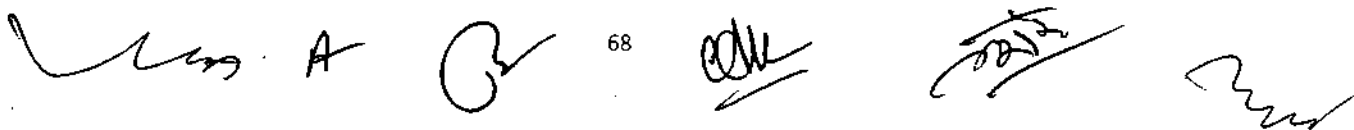
#### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 2376.65 sq m (33% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

#### Solid Waste Management

##### During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.



- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

#### **During Operation Phase**

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

#### **Water Quality Management**

##### **During Construction Phase**

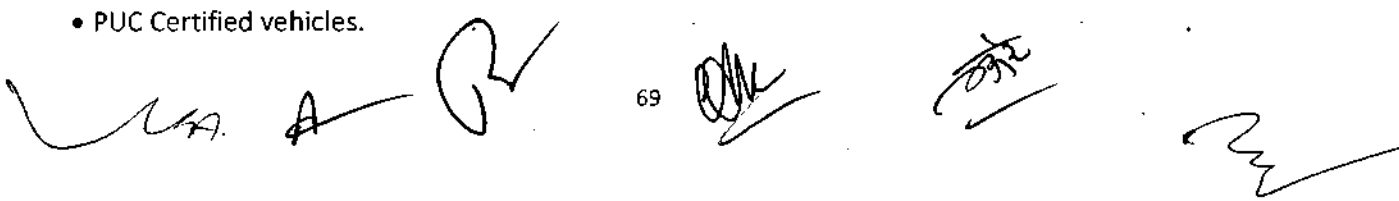
- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.
- Generated waste water will be collected through tankers and dispose to septic tank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

##### **During Operation Phase**

- STP of capacity i.e. 100 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 55.0 KLD of fresh water is required during operational phase of the project.

#### **Air Quality Management**

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


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- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

#### Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).

During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Details of energy conservation.
- iii. Submission of contour plan and evacuation plan.
- iv. Revised water requirement calculation & its usage.
- v. Revised EMP & Monitoring budget during construction & operation phase.
- vi. Revised solid waste calculation.
- vii. Justification for increase in noise level.
- viii. Details of rain water harvesting & its usage.

The PAs have submitted the above required documents.

Based on the presentation made and information provided, the Committee decided that the proposal for "Nucleus Heights" of M/s Arrowline Real Estate Pvt. Ltd., Village : Misirgonda, Tehsil : Kanke, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith following specific condition :

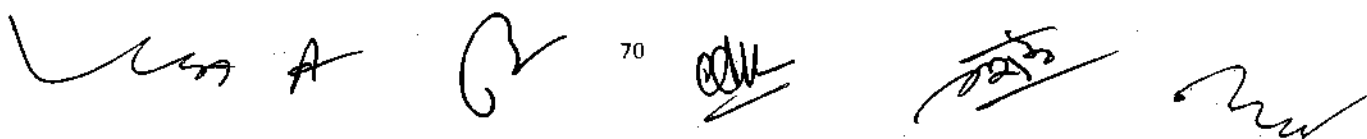
- I. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- III. All raw material to be stored only under covered shed.
- IV. PAs to ensure ZERO DISCHARGE for its process discharges.
- V. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- VI. Green belt and Green cover to be implemented as provided in layout plan.

2. Proposed Residential Building of M/s Newqonetic Tradecom LLP, Mouza : Hesag, Thana no. : 247, P.S. : Jagarnathpur, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/252716 /2022).

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

EC Application for: Residential buildings: Total built-up area of 36806.26 sq m

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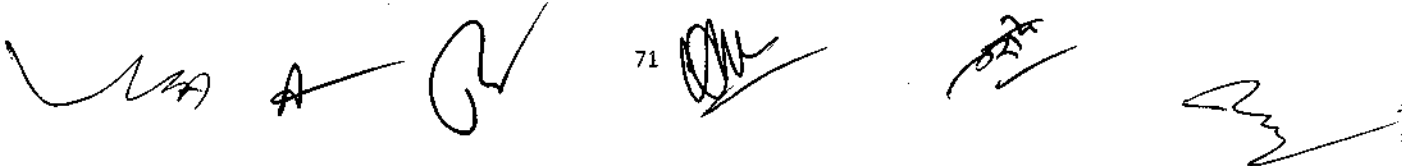
Name of the consultant: P & M SOLUTION, Noida

**PROJECT and LOCATION Details:**

Parameters	Description
Plot Area	7908.87 sq m
Khata No.	Plot No. 1051, 1052 & 1055, Khata No. 81
Project Cost	INR 43.2 Crores
Built-up Area	36806.26 sq m
Green Area	1681.34 sq m (21.25 % of plot area)
Population	1477
Water Requirement	200 KLD
Fresh Water Requirement	128 KLD
Wastewater Generation	158 KLD
STP Capacity	200 KLD
Total Municipal Waste	704 kg/day
Power Requirement	2200 KVA (Jharkhand State Electricity board)
DG Sets	3 no. of DG set of total 1250 kVA (1X250+2X500 KVA)
RWH Pits	03 no.
Parking	439 no.
Connecting road	The project site is well connected with road. 9.14 m wide road abuts project site in North direction.
National Highway	NH 75 (770 m, E) 9.14 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.0 km, E)
Airport	Birsa Munda Airport, (3.4 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.0 Km, SE) Raj Hospital (3.3 km, ENE)
Nearest Water Bodies	Pipartoli (360 m, N) Argora Talab (660 m, ENE)

**Area Summary**

Sl No.	Description	Area (Sq M)
A.	Plot Area	7908.87
B.	Proposed Ground Coverage (@29.4 % of plot area)	2325.29
C.	FAR area	26918.9

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D.	Non-FAR area	9887.36
E.	Built-up Area (C+D)	36806.26
F.	F.A.R	3.40
G.	Green Area (@ 21.25 % of the plot area)	1681.34
H.	Drive away & Open area (@49.33 % of the plot area)	3902.21
I.	Height	40 m
J.	No. of Dwelling Units	264

**Block Wise Dwelling Units Details**

S. No.	Building Blocks (Residential Building)	Number Of Floors	Du's
1.	Block A (LWR+G+12)	13	66
2.	Block B (LWR+G+12)	13	66
3.	Block C (LWR+G+11)	12	44
4.	Block D (LWR+G+11) (LIG & EWS)	12	88
	<b>Total</b>		<b>264</b>

**CO-ORDINATES**

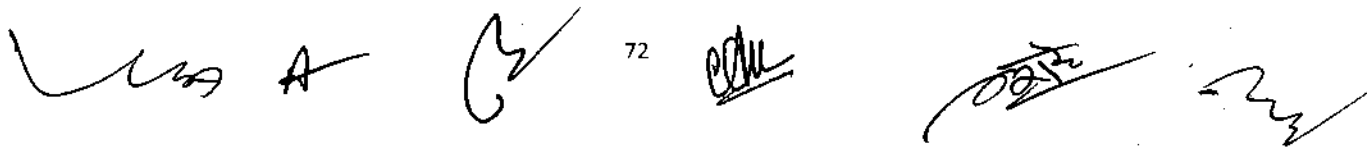
1	Latitude	From 23°17'27.00" N
2	Longitude	From 85°19'10.73" E.

**LAND DETAILS**

1	Mouza Hesag, Thana No 247, Jagarnathpur	<b>Khata No. 81</b>	<b>Plot No. 1051, 1052 &amp; 1055</b>
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**STATUTORY CLEARANCES**

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 2280, dated 25.08.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide letter no. 1083, dated 06.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Namkum (Ranchi) vide letter no. 1439, dated 17.11.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/091421/575201 dated 21.10.2021.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide





## Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
<b>Domestic</b>					
Residents	1330	135	180	126	54
Staff	25	45	2	0.6	1.4
Visitors	132	15	2	1.4	0.6
<b>Total Domestic Water Demand</b>			<b>184</b>	<b>128</b>	<b>56</b>
Landscape	1681.3 Sq.m	5 ltr/sqm	8.4	-	8.4
Fire Fighting			1	-	1
DG cooling	1250 KVA	0.9l/kVA/hr	6.75	-	6.75
<b>Total</b>		-	<b>200</b>	<b>128</b>	<b>72</b>

## Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non-Recyclable (kg/day)
1.	Residents	1320	0.5	660	528	132
2.	Staff	25	0.25	7	5.6	1.4
3.	Visitors	132	0.15	20	16	4

4.	Landscape waste	0.42 acres	0.2 kg/acres	1	1	
5.	STP sludge	200 KLD	--	16	13	3
<b>Total Waste Generated</b>				<b>704</b>	<b>563.6</b>	<b>140.4</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 21681.34 sq m (21.25 % of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

### Solid Waste Management

#### During Construction Phase

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

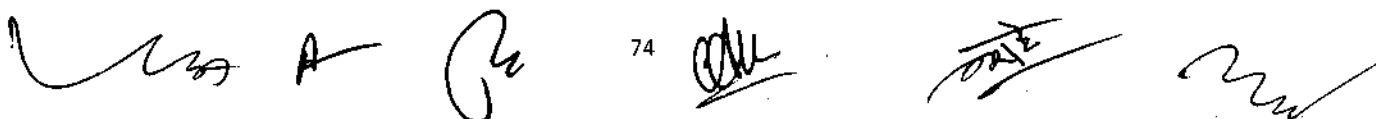
#### During Operation Phase

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

### Water Quality Management

#### During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.



- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

#### **During Operation Phase**

- STP of capacity i.e. 200 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 128.0 KLD of fresh water is required during operational phase of the project.

#### **Air Quality Management**

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

#### **Energy conservation**

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).

#### **During the presentation the following documents were sought :**

- i. Detail calculation of green cover area.
- ii. Details of energy conservation.
- iii. Submission of contour plan and evacuation plan.
- iv. Revised water requirement calculation & its usage.
- v. Revised EMP & Monitoring budget during construction & operation phase.
- vi. Revised solid waste calculation.
- vii. Justification for increase in noise level.
- viii. Details of rain water harvesting & its usage.
- ix. Undertaking regarding safety barrier from forest site for the construction activity.

**The PAs have submitted the above required documents.**

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Based on the presentation made and information provided, the Committee decided that the proposal for Proposed Residential Building of M/s Newqonetic Tradecom LLP, Mouza : Hesag, Thana no. : 247, P.S. : Jagarnathpur, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith following specific condition :

- I. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- III. All raw material to be stored only under covered shed.
- IV. PAs to ensure ZERO DISCHARGE for its process discharges.
- V. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- VI. Green belt and Green cover to be implemented as provided in layout plan.

**3. Green Residential Project "EASTATE ECO SYMPHONY" of M/s ESTATE BUILDCON PVT. LTD., Village : Gari, Tehsil : Sahar (Bargain), Dist : Ranchi, Jharkhand.**

**(Proposal No : SIA/JH/NCP/72093/2022).**

**Name of the consultant : P & M SOLUTION, Noida**

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

Green Residential Project "ESTATE ECO SYMPHONY" located at plot no. Plot Nos. 24 &25, Cheshire Home Road, Bariatu, Village - Gari, Tehsil – Ranchi Sahar (Bargain), District - Ranchi, Jharkhand by M/s Estate Buildcon Pvt. Ltd. on a plot area of 6552.79 m2. The total built up area of the project is 29955 m2. Approx.100% part of the project has already been constructed. So the project has been applied under violation case.

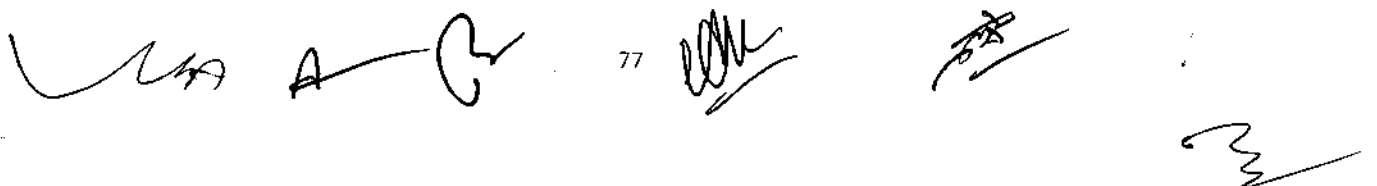
**Salient Features of the Project :**

Parameters	Description
Plot Area	6552.79 sq.m.( or 1.62 acres)
Khata No.	Khata no. 135 & Plot Nos. 24 & 25

Project Cost	INR 50.24 Crores
Built-up Area	29955.79 m <sup>2</sup>
Green Area	1411.4 sq m (@21.54% of plot area) and additional approx. 1278.1 m <sup>2</sup> of terrace green area.
Population	720
Water Requirement	97 KLD
Fresh Water Requirement	61 KLD
Wastewater Generation	75 KLD
STP Capacity	100 KLD
Total Municipal Waste	761 kg/day
Power Requirement	1500 KVA (Jharkhand State Electricity board)
DG Sets	2 no. of DG set of Total 200 KVA
RWH Pits	06 no.
Parking	322 no.
Connecting road	Project site is well connected with road. Site abuts the adjacent road in South direction.
National Highway	NH-20(2 km, E) Adjacent road (in South Direction)
Nearest Railway Station	Ranchi junction Railway station, (6.16 km, S)
Airport	Birsa Munda Airport, (9.81 km, S)
Nearest Hospitals	Orchid medical centre (4.04 km, SW)
Nearest Water Bodies	Kanke Dam (5.20 km, E) Getalsud Dam (10.10 km NE) Ranchi Lake (5.66 km, N) Jumar River (4 km, NE) Subarnarekha River (4.81 km SSE)

**Area Summary :**

Sl. no.	Description	Area (SQ M)
A.	Plot Area( B+F+G)	6,552.79
B.	Proposed Ground Coverage (@26.41% of net plot	1730.44


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	area)	
C.	Proposed FAR (@ of plot area	20673.58
D.	Non FAR (Strain case, Lift, Balcony, Ramp, Accessory Use, Parking, Basement Parking)	9282.21
E.	<b>Built-up Area (C+D)</b>	<b>29955.79</b>
F.	Ground Green Area (@21.54%)	1411.4
	Terrace green area	1278.1
	<b>Total Green area</b>	<b>2689.5</b>
G.	Total Hardscape area (Road, STP, OWC, Pool, Transformer, Main Gate, guard room, Open parking e.t.c( 52.05 % of the plot area)	3410.95
H.	Highest Building (Excluding parapet)	48.1 m
I.	No of Dwelling Units	139

**Block Wise Dwelling Units Details :**

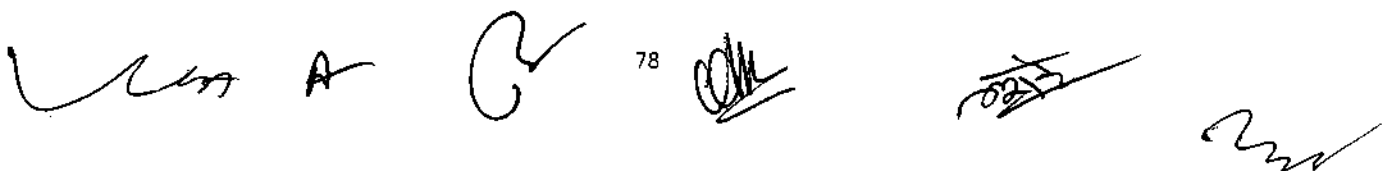
Sl. no.	Building Blocks (Residential Building)	Number of Floors	DU's
1.	Block A (B+S+GF+11Terrace Floor)	12	88
2.	Block B (B+S+GF+15Terrace Floor)	16	15
3.	Block C (B+S+GF+13Terrace Floor)	14	36
	<b>Total</b>		<b>139</b>

**CO-ORDINATES :**

1	Latitude	From 23°21'0.8"N	To 23°21'3.1"N
2	Longitude	From 85°17' 22.8"E	To 85°17' 26.8"E

**LAND DETAILS :**

1	Village - Gari, Tehsil - Ranchi Sahar (Bargain), District - Ranchi	Khata no. 135	Plot Nos. 24 & 25
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Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement (KLD)	Fresh Water Requirement (KLD)	Recycled Water requirement (KLD)
<b>Domestic</b>					
Residents	625	135	85	60	25
Staff	32	45	2	0.6	1.4
Visitors	63	15	1	0.7	0.3
<b>Total Domestic Water Demand</b>			<b>88</b>	<b>61</b>	<b>27</b>
Landscape	1411.4 Sq.m	3ltr/sqm	5		5
Fire Fighting			1	-	1
DG cooling	400KVA (1*200KVA + 1*200 KVA)	0.9 l/kVA/hr	3	-	3
<b>Total</b>		-	<b>97</b>	<b>61</b>	<b>36</b>

Category	Total Quantity (KLD)
Domestic water Req.	61
Flushing water Req.	27
Sewage generation (@80% of the fresh + 100% flushing water requirement)	75
Capacity of STP	100
Recovered water from STP (90% of Waste water)	68
1. Flushing	27
2. Landscaping	5
3. Fire Fighting	1
4. DG cooling	3
5. Construction in nearby areas/road washing/sewer e.t.c	32

Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	625	0.5	313	250	63
2.	Staff	32	0.25	8	6.4	1.6

3.	Visitors	63	0.15	10	8	2
4.	Landscape waste	0.34 acres	0.2 kg/acres	1	1	-
5.	STP sludge	100 KLD	--	9	7	2
<b>Total Waste Generated</b>				<b>341</b>	<b>272</b>	<b>69</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1411.4 sq m (@21.54% of plot area) and additional approx. 1278.1 m<sup>2</sup> of terrace green area, which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

### Solid Waste Management

#### During Construction Phase

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







#### During Operation Phase

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

### Water Quality Management

#### During Construction Phase

- The site drainage will be planned in such a way that there is no accumulation of water/wastewater within the project premises or in the vicinity of the site.
- Mobile toilets to be provided for construction Labourers.




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- Generated waste water will be collected through tankers and dispose to septic tank for treatment.

#### During Operation Phase

- STP of capacity i.e. 100.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 61.0 KLD of fresh water is required during operational phase of the project.

#### Air Quality Management

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

#### Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 18 Nos of solar panels will be used to save around 10 % of the total power requirement).

#### STATUTORY CLEARANCES :

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 393, dated 07.02.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 148, dated 21.02.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Baragai, Ranchi vide letter no. 691, dated 06.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B /032818/291828 dated 28.03.2018

5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 413/tech dated 04.04.2018.
6	Building Plan	:	Approved Building Plan

During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

The PAs have submitted the above required documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

**4. Group Housing Project of M/s Lucky Buildcon, Village : Pundag, Tehsil : Ranchi, Dist : Ranchi, Jharkhand.**

(Proposal No : SIA/JH/MIS/71973/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels-Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

**Salient Features of the Project :**

Parameters	Description
Plot Area	5924.99 m <sup>2</sup> (approx. 1.46 acre)
Khata No.	Khasra No.: 336, Plot no.: 529, 530, 531, 1594 & 1595
Project Cost	INR 50 Crores
Built-up Area	23827.33 m <sup>2</sup>
Green Area	266.5 sq m (@ 5% of balance plot area)

*[Handwritten signatures and marks]*

Population	899
Water Requirement	119 KLD
Fresh Water Requirement	82 KLD
Wastewater Generation	110.0 KLD
STP Capacity	120.0 KLD
Total Municipal Waste	443 kg/day
Power Requirement	400 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	02 no.
Parking	408 no.
Connecting road	The project site is well connected with Argora road.
National Highway	NH-75, 3.2 km, E 12.5 m road (abuts site in W direction)
Nearest Railway Station	Ranchi junction Railway station, (7.0 km, E)
Airport	Birsa Munda Airport, (7.0 km, SE)
Nearest Hospitals	Amrit Hospital (6.3 km, NNW) Raj Hospital (5.7 km, E)
Nearest Water Bodies	Ranchi Lake (5.32 km, NE) Kanke Dam (5.9 km, N)

**Area Summary :**

Sl. no.	Description	Area (SQ M)
1.	Plot Area	5924.99
2.	Common Plot	594.02
3.	Balance plot area (1-2)	5330.97
4.	Permissible Ground Coverage (@35% of net plot area)	2073.75
5.	Proposed Ground Coverage (@34.76% of net plot area)	2059.56
6.	Permissible FAR (@3.0 of plot area)	17774.97
7.	Proposed FAR (@2.99 of plot area)	17727.29

8.	Non FAR Area (including Basement)	6,100.04
	Basement	3234.21
	On floors	2,865.83
9.	Built-up Area	23827.33
10.	Green Area (@5% of balance plot area)	266.5
11.	Height	34.9
12.	No of Dwelling Units	168

**CO-ORDINATES :**

1	Latitude	From 23°21'11"N	To 23°21'12"N
2	Longitude	From 85°16' 4"E	To 85°16' 7"E

**LAND DETAILS :**

1	Village - Pundag, Tehsil- Ranchi	Khata No.: 336	Plot no.: 529, 530, 531, 1594 & 1595
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**STATUTORY CLEARANCES :**

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 5010, dated 22.12.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 765, dated 27.10.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Nagri, Ranchi vide letter no. 26, dated 30.12.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/ 101920/ 503583 date 04.12.2020.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 181/tech/2019 dated 22.01.2019

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5	Building Plan	:	Approved Building Plan
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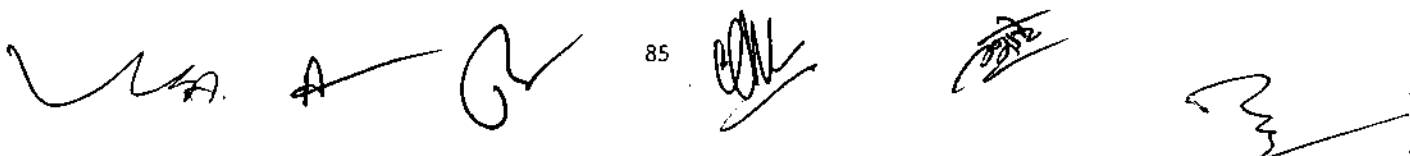
### Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
<b>Domestic</b>					
Residents	840	135	114	80	34
Staff	17	45	2	1	1
Visitors	42	15	2	1	1
<b>Total Domestic Water Demand</b>			<b>118</b>	<b>82</b>	<b>36</b>
Landscape	266.5 sq m	3 l/day	1	0	1
<b>Total</b>		-	<b>119</b>	<b>82</b>	<b>37</b>

Category	Total Quantity (KLD)
Fresh water Req.	82
Flushing water Req.	37
Sewage generation (@80% of the water consumption)	110
Capacity of STP	120
Recovered water from STP (80% of Waste water)	88
6. Flushing	36
7. Landscaping	1
8. Construction in nearby areas/road washing/sewer	51

### Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	840	0.5	420	126	294
2.	Staff	17	0.25	4	1	3
3.	Visitors	42	0.15	7	2	5



4.	Landscape waste	0.05 acres	0.2 kg/acres	1	0	1
5.	STP sludge	110 KLD	--	11	0	11
<b>Total Waste Generated</b>				<b>443</b>	<b>129</b>	<b>314</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 266.5 sq m (@ 5% of balance plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

### Solid Waste Management

#### During Construction Phase

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

#### During Operation Phase






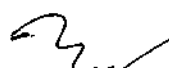
- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic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

### Water Quality Management

#### During Construction Phase

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

#### During Operation Phase




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- STP of capacity i.e. 120.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 82.0 KLD of fresh water is required during operational phase of the project.

#### **Air Quality Management**

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

#### **Energy conservation**

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 5 Nos of solar panels will be used to save around 10 % of the total power requirement). Details as follows:

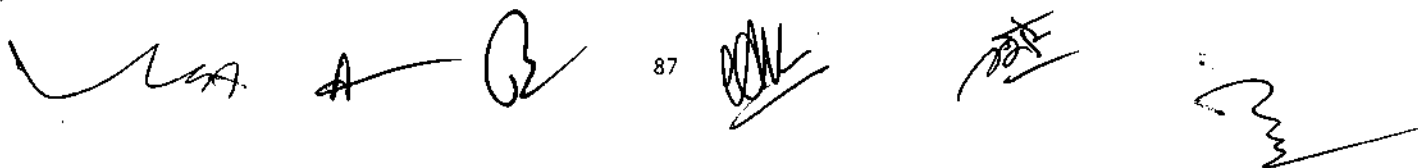
**During the presentation the following documents were sought :**

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

**The PAs have submitted the above required documents.**

**Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :**

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.



5. Affordable Housing Project "Pearl Orchid" for LIG and EWS of M/s Moti Infrastructures, Village : Argora, Tehsil : Ranchi, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/71739 /2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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

**Salient Features of the Project :**

Parameters	Description
Plot Area	6849.50 m <sup>2</sup> (approx. 1.69 acre)
Project Cost	INR 32 Crores
Built-up Area	39388.94 m <sup>2</sup>
Green Area	342.5sq m (@5% of plot area)
Population	1391
Water Requirement	181 KLD
Fresh Water Requirement	125 KLD
Wastewater Generation	168 KLD
STP Capacity	180 KLD
Total Municipal Waste	685 kg/day
Power Requirement	500 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	02 no.
Parking	481 no.
Connecting road	The project site is well connected with road. 12.5 m wide road abuts project site in North direction.
National Highway	NH 75 (700 m, E) 12.5 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.58 km, E)

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Airport	Birsa Munda Airport, (3.6 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.5 Km, SE) Raj Hospital (3.58 km, E)
Nearest Water Bodies	Ranchi Lake (3.29 km, NE) Dhurwa Dam (6.9 km, SSW) Kanke Dam (5.1 km, N)

**Area Summary :**

Sl. no.	Description	Area (SQ M)
1.	Plot Area	6849.50
2.	Surrendered for road widening	71.43
3.	Net Plot Area	6778.07
4.	Common Plot	830.52
5.	Balance plot area (1-2)	5947.54
6.	Permissible Ground Coverage (@50% of net plot area)	3389.03
7.	Proposed Ground Coverage (@34.64% of net plot area)	2348.05
8.	Permissible FAR (@3.5 of plot area)	23973.25
9.	Proposed FAR (@3.49 of plot area	23921.49
	Residential	23681.39
	Utility Building	240.01
10.	Non FAR Area (including Basement)	15,467.45
	Basement	3,891.67
	On floors	11,575.78
11.	Built-up Area	39388.94
12.	Green Area (@5% of balance plot area)	342.5
13.	Height	43.9
14.	No of Dwelling Units	260

**CO-ORDINATES :**

1	Latitude	From 23°21'0.8"N	To 23°21'3.1"N
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2 - Longitude	From 85°17' 22.8"E	To 85°17' 26.8"E
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**LAND DETAILS :**

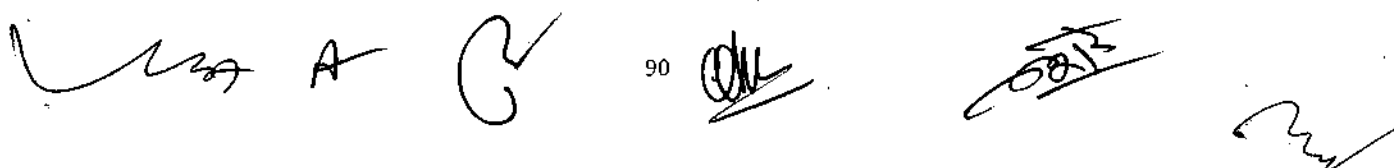
1	Village - Argora, Tehsil- Ranchi	Khata No.	Plot no.
		73	1066 & 1067
		79	1064 & 1065

**STATUTORY CLEARANCES :**

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 5047, dated 26.12.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 764, dated 27.10.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Argora, Ranchi vide letter no. 424, dated 14.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/011619/364096 date 01.02.2019.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 175/tech dated 21.01.2019.
6	Building Plan	: Approved Building Plan

**Water and waste water Requirement Details :**

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
<b>Domestic</b>					
Residents	1300	135	176	123	53
Staff	26	45	2	1	1
Visitors	65	15	2	1	1
<b>Total Domestic Water Demand</b>			180	125	55
Landscape	342.5	1 l/day	1	0	1
<b>Total</b>		-	181	125	56


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Category	Total Quantity (KLD)
Fresh water Req.	125
Flushing water Req.	55
Sewage generation (@90% of the water consumption)	168
Capacity of STP	180
Recovered water from STP (80% of Waste water)	134
9. Flushing	55
10. Landscaping	1
11. Construction in nearby areas/road washing/sewer	78

### Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	1300	0.5	650	195	455
2.	Staff	26	0.25	7	2	5
3.	Visitors	65	0.15	10	3	7
4.	Landscape waste	0.08 acres	0.2 kg/acres	1	0	1
5.	STP sludge	168 KLD	--	17	0	17
<b>Total Waste Generated</b>				685	200	485

### ENVIRONMENT MANAGEMENT

#### Green Belt Development



- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 342.5sq m (@5% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.


#### Solid Waste Management

##### During Construction Phase

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

##### During Operation Phase




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

### **Water Quality Management**

#### **During Construction Phase**

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

#### **During Operation Phase**

- STP of capacity i.e. 180.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 125.0 KLD of fresh water is required during operational phase of the project.

### **Air Quality Management**

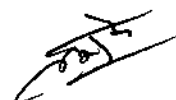
- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.
- Covering of trucks carrying construction materials.
- Dust suppression by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

### **Energy conservation**

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).








During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.
- iv. Submission of contour plan and evacuation plan.

The PAs have submitted the above required documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

**6. Expansion of Group Housing Project "Oak Forest" of Shri Nisith Kumar Keshari, Village : Argora, Tehsil : Ranchi, Dist : Ranchi, Jharkhand.**

(Proposal No : SIA/JH/MIS/71798/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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

ToR Application for: Residential buildings : Total built-up area of 39322.78 sq m. (Existing- 17677.45 sq.m + Proposed- 21645.33 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	10942.60 m <sup>2</sup> (approx. 2.70 acre)
Project Cost	INR 76.14 Crores
Built-up Area	39322.78 m <sup>2</sup>
Green Area	2252.82 sq m (23.3% of plot area)
Population	1199

Water Requirement	163 KLD
Fresh Water Requirement	108 KLD
Wastewater Generation	133 KLD
STP Capacity	145 KLD
Total Municipal Waste	591 kg/day
Power Requirement	500 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	02 no.
Parking	274 no.
Connecting road	The project site is well connected with road. 9.14 m wide road abuts project site in North direction.
National Highway	NH 75 (770 m, E) 9.14 m road (abuts site in N direction)
Nearest Railway Station	Ranchi junction Railway station, (4.0 km, E)
Airport	Birsa Munda Airport, (3.4 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.0 Km, SE) Raj Hospital (3.3 km, ENE)
Nearest Water Bodies	Pipartoli (360 m, N) Argora Talab (660 m, ENE)

#### Area Summary

S. No.	Description	Area (sq m)
1.	Plot Area	10942.6
2.	Surrendered for road widening	318.72
3.	Net Plot Area	10623.88
4.	Common Plot	1459.72
5.	Balance plot area (1-2-4)	9164.16
6.	Permissible Ground Coverage (@35% of net plot area)	3718.36
7.	Total Ground Coverage (@34.67% of net plot area)	3683.14
	• Proposed Coverage Area (15.86 %)	1684.99
	• Existing Building	1998.15

	Coverage area ( 18.81 % )	
8.	Permissible FAR (@3.0 of plot area)	32827.80
9.	Total FAR (@2.99 of plot area) • Proposed FAR Area • Existing Building FAR Area	32689.17 16875.03 15814.14
10	Non FAR Area (including Basement) • Proposed Non FAR • Existing Non FAR	6,633.61 4,770.3 1,863.31
11.	Built-up Area • Proposed Built-up Area • Existing Built-up Area	39322.78 21645.33 17677.45
12.	Green Area (@23.3% plot area)	2552.85
13.	Height	43.75 m
14.	No of Dwelling Units	224 (117-existing +107-proposed)

**CO-ORDINATES :**

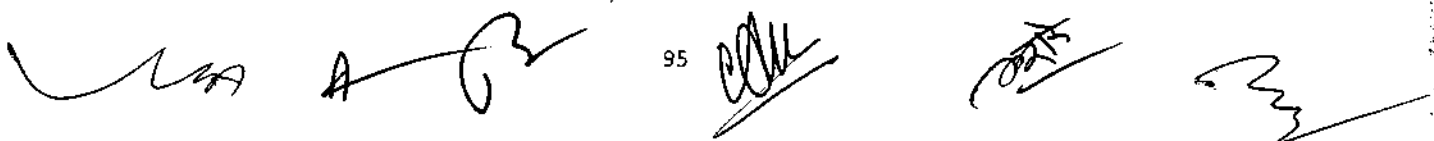
1	Latitude	From 23°20'52.90"N	To 23°20'58.13"N
2	Longitude	From 85°17'21.65"E	To 85°17'27.23"E

**LAND DETAILS :**

		Khata No.	Plot No.
1	Village - Argoda, Tehsil- Ranchi	15	2558, 2570, 2571 & 2572
		63	2564
		188	2560, 2561, 2565, 2566, 2567, 2568, 2569

**STATUTORY CLEARANCES :**

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 2477, dated 08.09.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
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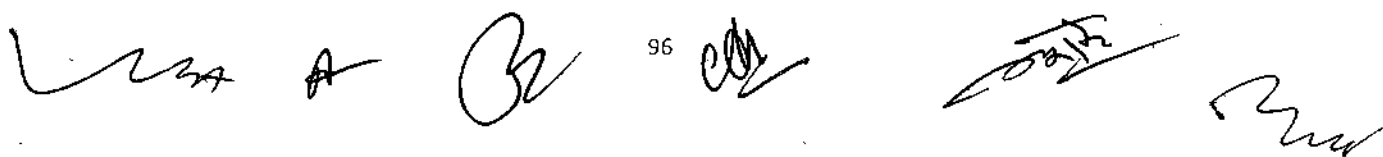


2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide memo no. 993, dated 12.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Argora, Ranchi vide letter no. 72, dated 02.03.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/062619/409087 dated 16.07.2019.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 2295/tech dated 28.08.2019.
6	Building Plan	:	Approved Building Plan

### Water and waste water Requirement Details

S. No.	Category	Standard	Existing				Proposed				Total			
			Population / Capacity	Water Req.	Fresh Water Req	Recycled Water Req	Population / Capacity	Water Req.	Fresh Water Req	Recycled Water Req	Water Req.	Fresh Water Req	Recycled Water Req	
1	Residents	135	585	79	55	24	535	72	51	21	151	106	45	
2	Staff/ Students	45	12	1	0.5	0.5	11	1	0.5	0.5	2	1	1	
3	Visitors	15	29	1	0.5	0.5	27	1	0.5	0.5	2	1	1	
<b>Total Domestic Water Req.</b>					<b>81</b>	<b>56</b>	<b>25</b>		<b>74</b>	<b>52</b>	<b>22</b>	<b>155</b>	<b>108</b>	<b>47</b>
4	Landscape	3 l/sq m	2552.82 sq m	8	0	8		0	0	0	8	0	8	
<b>Total Water Req.</b>					<b>89</b>	<b>56</b>	<b>33</b>		<b>74</b>	<b>52</b>	<b>22</b>	<b>163</b>	<b>108</b>	<b>55</b>

Category	Total Quantity (KLD)
Fresh water Req.	108
Flushing water Req.	47
Sewage generation (@90% of fresh water +100% flushing water)	133
Capacity of STP	145





Recovered water from STP (80% of Waste water)	107
12. Flushing	47
13. Landscaping	8
14. Construction in nearby areas/road washing/sewer	52

### Solid Waste Requirement

S. No	Category	Standard	Existing				Proposed				Total		
			Capacity	Total Waste - kg/day	Recyclable-kg/day	Non Recyclable-kg/day	Capacity	Total Waste-kg/day	Recyclable-kg/day	Non Recyclable-kg/day	Total Waste-kg/day	Recyclable-kg/day	Non Recyclable-kg/day
1	Residents	0.5	585	293	88	205	535	268	80	188	561.0	168.0	393.0
2	Staff/ Students	0.25	12	3	1	2	11	3	1	2	6.0	2.0	4.0
3	Visitors	0.15	29	4	1	3	27	4	1	3	8.0	2.0	6.0
4	Landscape	0.2 kg/acre	0.6 acres	1	0	1	0	0	0	0	1.0	0.0	1.0
5	STP Sludge	--	80 KLD	8	0	8	65 KLD	7	0	7	15.0	0.0	15.0
Total waste Generated				309	90	219	282	82	200	591	172	419	

### ENVIRONMENT MANAGEMENT

#### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 2252.82 sq m (23.3% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

#### Solid Waste Management

##### During Construction Phase

- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.

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- There will be "Refuse Containers" at site for the management of domestic waste generated by the construction labourers and these containers will be emptied at least once daily.
- Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

#### **During Operation Phase**

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

#### **Water Quality Management**

##### **During Construction Phase**

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

##### **During Operation Phase**

- STP of capacity i.e. 145.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 108.0 KLD of fresh water is required during operational phase of the project.

#### **Air Quality Management**

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











- Glow signs Speed Limits to 20 kmph to reduce emissions on site will be displayed at the important junctions.

#### Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 6 Nos of solar panels will be used to save around 10 % of the total power requirement).

#### During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

The PAs have submitted the above required documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

#### 7. Affordable Housing Project "Assotech Hills Sec-1" of M/s Assotech Sun Growth Abode LLP at Tagore Hill Road (Adjoining Bank Colony), Village : Boreya, Tehsil : Kanke, Dist : Ranchi, Jharkhand.

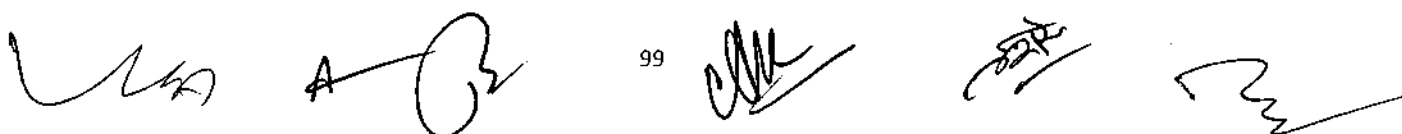
(Proposal No : SIA/JH/MIS/71943/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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

ToR Application for : Residential buildings : Total built-up area of 45753.62 m<sup>2</sup> (Existing 11438.4 sq.m + Proposed 34315.2 sq.m).



**Salient Features of the Project :**

Parameters	Description
Plot Area	11238.20 m <sup>2</sup> (approx. 2.78 acre)
Project Cost	INR 68.92 Crores
Built-up Area	45753.62 m <sup>2</sup>
Green Area	2341.54 m <sup>2</sup> (@ 20.83% of plot area)
Population	4195
Water Requirement	297 KLD
Fresh Water Requirement	212 KLD
Wastewater Generation	245.8 KLD
STP Capacity	300.0 KLD
Total Municipal Waste	1553.75 kg/day
Power Requirement	1690 KVA (Jharkhand State Electricity board)
DG Sets	2 no. of DG set of Total 760 kVA
RWH Pits	04 no.
Parking	612 no.
Connecting road	The project site is well connected with Boreya Road.
National Highway	NH-20, 4.50 km SE SH-2, 3.50 km W
Nearest Railway Station	Ranchi Railway station, 7.47 km, SW
Airport	Birsa Munda Airport, (11.39 km, S)
Nearest Hospitals	RIMS-3 (48 Km, S)
Nearest Water Bodies	Potpoto River (0.50 km, NW) Jumar River (2.50 km, N) Subarnarekha River (9.50, S)

**Area Summary :**

Particular	Proposed	Permissible
Plot Area	11238.20 sqm	
Net Plot Area	11238.20 sqm	--
Ground Coverage	3526.30(31.38%)	5619.01 (50%)
FAR (Floor Area Ratio)	39324.55(3.5)	39333.07 (3.5)
Built up Area	45753.62 sqm	--
Maximum Height	41 m	--

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Road Area	3881sqm	--
Stilt Parking	2571.92 sqm	
Open Parking	1753.5 sqm	
Total Parking	4325.42 sqm	2376.50 sqm
Green Belt Area	2341.54(20.83%)	2247.67(20%)
Maximum No. of Floor	S+13	--
Power/Electricity Requirement & Sources	1690 KVA	--
No. of DG sets	2x380 KVA	--
Water requirement	212.0 KLD (Fresh)	--
Sewage Treatment Plant	STP Capacity - 300 KLD	--
Estimated Population- Residential, Commercial, Floating / Visitors	4195 nos.	--

**Built up area details :**

Sl. No.	Floor Name	Building Name				Total Built up Area (sqm)
		A (Building)	B (Building)	C (Building)	D (Building)	
1	Ground Floor	878.28	936.96	798.33	928.94	3542.51
2	1 <sup>st</sup> Floor	894.04	882.8	750.60	1022.79	3550.23
3	2 <sup>nd</sup> Floor	806.55	882.8	736.74	808.74	3234.83
4	3 <sup>rd</sup> Floor	806.55	882.8	736.74	807.34	3233.43
5	4 <sup>th</sup> Floor	806.55	882.8	736.74	807.34	3233.43
6	5 <sup>th</sup> Floor	806.55	882.8	736.74	807.34	3233.43
7	6 <sup>th</sup> Floor	806.55	882.8	736.74	807.34	3233.43
8	7 <sup>th</sup> Floor	806.55	882.8	736.74	807.34	3233.43
9	8 <sup>th</sup> Floor	806.55	882.8	736.74	807.34	3233.43
10	9 <sup>th</sup> Floor	806.55	882.8	736.74	807.34	3233.43
11	10 <sup>th</sup> Floor	806.55	882.8	736.74	807.34	3233.43
12	11 <sup>th</sup> Floor	806.55	882.8	736.74	807.34	3233.43
13	12 <sup>th</sup> Floor	806.55	882.8	736.74	807.34	3233.43
14	13 <sup>th</sup> Floor	806.55	741.12	736.74	807.34	3091.75
15	Terrace Floor					
<b>Total</b>		<b>11450.92</b>	<b>12271.68</b>	<b>10389.91</b>	<b>11641.21</b>	<b>45753.62</b>

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**CO-ORDINATES :**

1	Latitude	From 23°25'05.20"N	To 23°25'07.0"N
2	Longitude	From 85°20'50.00"E	To 85°20'55.40"E

**LAND DETAILS :**

1	Village - Boreya, Tehsil- Kanke	<b>Khata No.</b>	<b>Plot No.</b>
		298	1874, 1875
		369	1877

**STATUTORY CLEARANCES**

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 2207, dated 19.08.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 709, dated 13.08.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Kanke, Ranchi vide letter no. 425, dated 24.06.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/122718/358660, dated 27.12.2018.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 122/tech/2019 dated 13.01.2019
6	Building Plan	: Approved Building Plan

**Water and waste water Requirement Details**

Sl. No.	Description	Total Population	Per Capita Consumption (ltr/day)		Water Requirement (KLD)		
					Domestic	Flushing	Total
1.	Apartments	2795 nos.	Fresh (65)	Flushing (21)	181.675	58.695	240.37

2.	Club	300 nos.	Fresh (25)	Flushing (20)	7.50	6.00	13.50
3.	Floating	300nos	Fresh (5)	Flushing (10)	1.50	3.00	4.50
4.	Staff	150 nos.	Fresh (25)	Flushing (20)	3.75	3.00	6.75
5.	Permanent Population (Shopping)	150 nos.	Fresh (25)	Flushing (20)	3.75	3.00	6.75
6.	Transient Population (Shopping)	500 nos.	Fresh (5)	Flushing (10)	2.50	5.00	7.50
7.	Filter Backwash				6.00		6.00
8.	Makeup Water for Swimming Pool				5.00		5.00
9.	Horticulture					5.86	5.86
<b>TOTAL</b>					<b>211.675</b>	<b>84.55</b>	<b>296.23</b>
					<b>≈ 212</b>	<b>≈ 85</b>	<b>≈ 297</b>

Details	Water (KLD)
Water requirement for domestic purpose	212.0
Wastewater generated from domestic use (@ 80% of domestic water requirement)	160.8
Water requirement for Flushing Purpose	85.0
Wastewater generated from Flushing (@ 100% of flushing requirement)	85.0
Total Wastewater generated	160.8+85 = 245.8 KLD
STP Capacity (by adding 20% as per MoEF)	294.8
STP Capacity proposed (STP Layout design is attached in Annexure-3)	300.0 KLD

## Solid Waste Requirement

S. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Residents	2795 @ 0.45 kg/day	1257.75
2.	Floating Population	300 @ 0.15 kg/day	45.0
3.	Others (Club House, Staff, Shopping)	1100 @ 0.15 kg/day	165.0
3.	STP sludge		86.0
<b>TOTAL SOLID WASTE GENERATED</b>			<b>1553.75kg/day</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 2341.54 m<sup>2</sup> (@ 20.83% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

### Solid Waste Management

#### During Construction Phase

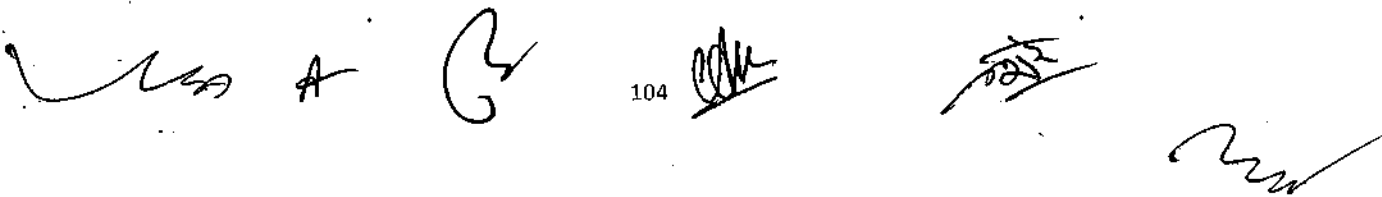
- Construction yards are proposed for storage of construction material.
- Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project.
- Remaining soil will be utilized for refilling/road work/raising of site level at locations.
- There will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

#### During Operation Phase

- The solid waste will be segregated at source & collected.
- Adequate number of colored bins (green, white & Black) separate for bio-degradable, non-biodegradable and Hazardous waste are proposed to be provided at the strategic location within site.
- Bio-degradable (will be composted through organic waste converter).
- Recyclable wastes will be disposed to govt. or 5PCB approved third party vendors.
- Dewatered sludge can be buried underground in a sanitary landfill. It also may be spread on agricultural land in order to make use of its value as a soil conditioner and fertilizer.
- The Hazardous waste generated will be managed as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
- Horticultural Waste is composted and used for gardening purposes.

### Water Quality Management

#### During Construction Phase

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

#### **During Operation Phase**

- STP of capacity i.e. 300.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 212.0 KLD of fresh water is required during operational phase of the project.

#### **Air Quality Management**



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

#### **Energy conservation**

- Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 21 Nos of solar panels will be used to save around 10 % of the total power requirement).

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 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.




8. Affordable Housing Project "Assotech Hills Sec-2" of M/s Assotech Sun Growth Abode LLP at Tagore Hill Road (Adjoining Bank Colony), Village : Boreya, Tehsil : Kanke, Dist : Ranchi, Jharkhand

(Proposal No : SIA/JH/MIS/71935/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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

ToR Application for : Residential buildings : Total built-up area of 65517.06 m<sup>2</sup> (Existing 3275.85 sq.m + Proposed 62241.20 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	18857.11 m <sup>2</sup> (approx. 4.66 acre)
Project Cost	INR 165 Crores
Built-up Area	65517.06 m <sup>2</sup>
Green Area	3500.0 m <sup>2</sup> (@ 20.16 % of plot area)
Population	5200
Water Requirement	375.7 KLD
Fresh Water Requirement	276.0 KLD
Wastewater Generation	314.9 KLD
STP Capacity	350.0 KLD
Total Municipal Waste	1923.5 kg/day
Power Requirement	2720 KVA (Jharkhand State Electricity board)
DG Sets	02 no. of DG set of Total 1130 KVA
RWH Pits	05 no.
Parking	926 no.
Connecting road	The project site is well connected with Boreya Road.

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National Highway	NH-20, 4.50 km SE SH-2, 3.50 km W
Nearest Railway Station	Ranchi Railway station, 7.47 km, SW
Airport	Birsa Munda Airport,(11.39 km, S)
Nearest Hospitals	RIMS-3 (48 Km, S)
Nearest Water Bodies	Potpoto River (0.50 km, NW) Jumar River (2.50 km, N) Subarnarekha River (9.50, S)

**Area Statement :**

Particular	Proposed	Permissible
Plot Area	18857.11 sqm	
Net Plot Area	18857.11 sqm	--
Ground Coverage	6387.79sqm (36.8 %)	--
FAR (Floor Area Ratio)	3.47	3.50
Built up Area	65517.06 sqm	--
Maximum Height	49 m	--
Road Area	1514.2 sqm	--
Stilt Parking	4749.24 sqm	
Open Parking	5954.65 sqm	
Total Parking	10703.89 sqm	
Green Belt Area	3500.0 sqm (20.16 %)	3471.3 sqm (20 %)
Maximum No. of Floor	S+16	--
Power/Electricity Requirement & Sources	2720 KVA	--
No. of DG sets	1x750 KVA and 1x380 KVA	--
Water requirement	276.0 KLD (Fresh)	--
Sewage Treatment Plant	STP Capacity - 350 KLD	--
Estimated Population- Residential,Commercial, Floating/visitors	5200 nos.	--

**Built up Area Details**

Sl. No.	Floor Name	Building Name					Total Built up Area (sqm)
		E (Building)	H (Building)	G (Building)	F (Building)	Club House	
1	Ground Floor	53.86	774.28	34.77	102.62	410.98	1376.51
2	1 <sup>st</sup> Floor	768.80	1207.72	581.46	1909.95	286.86	4754.79
3	2 <sup>nd</sup> Floor	768.80	910.65	581.46	1909.95	0.00	4170.86
4	3 <sup>rd</sup> Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
5	4 <sup>th</sup> Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
6	5 <sup>th</sup> Floor	768.81	910.66	581.46	1909.04	0.00	4169.97
7	6 <sup>th</sup> Floor	768.81	910.66	581.46	1909.04	0.00	4169.97
8	7 <sup>th</sup> Floor	768.81	910.66	581.46	1909.04	0.00	4169.97
9	8 <sup>th</sup> Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
10	9 <sup>th</sup> Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
11	10 <sup>th</sup> Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
12	11 <sup>th</sup> Floor	768.80	910.61	581.46	1909.95	0.00	4170.82
13	12 <sup>th</sup> Floor	768.80	910.66	581.46	1909.95	0.00	4170.87
14	13 <sup>th</sup> Floor	768.81	910.66	581.46	1909.95	0.00	4170.88
15	14 <sup>th</sup> Floor	768.81	910.66	581.46	1909.04	0.00	4169.97
16	15 <sup>th</sup> Floor	768.81	0.00	581.46	1909.04	0.00	3259.31
17	16 <sup>th</sup> Floor	0.00	0.00	0.00	1909.04	0.00	1909.04
18	Terrace Floor	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>		<b>11585.92</b>	<b>13820.27</b>	<b>8756.67</b>	<b>30656.36</b>	<b>697.84</b>	<b>65517.06</b>

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**CO-ORDINATES**

1	Latitude	From 23°25'01.30"N	To 23°25'05.48"N
2	Longitude	From 85°21'01.10"E	To 85°21'07.00"E

**LAND DETAILS**

Khata no.	Plot no.
356	1955, 1864
311	1956, 1957, 1961, 1962
589	1958, 1960
61	1853, 1858
74	1856
76	1857
480	1859, 1959
237	1861, 1860
256	1867

**STATUTORY CLEARANCES :**

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 1050, dated 27.02.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide memo no. 108, dated 06.02.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Kanke, Ranchi vide letter no. 425, dated 24.06.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/020119/368483, dated 04.02.2019.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 550/tech/2019 dated 28.02.2019
6	Building Plan	:	Approved Building Plan

**Water and waste water Requirement Details :**

Sl. No.	Description	Total Population	Per Capita Consumption (ltr/day)		Water Requirement (KLD)		
					Domestic	Flushing	Total
1.	Apartments	3620 nos.	Fresh (65)	Flushing (21)	235.3	76.02	311.32
2.	Club	440 nos.	Fresh (25)	Flushing (20)	11.0	8.8	19.8
3.	Floating	370nos	Fresh (5)	Flushing (10)	1.85	3.7	5.55
4.	Staff	200 nos.	Fresh (25)	Flushing (20)	5.0	4.0	9.0
5.	Permanent Population (Shopping)	110 nos.	Fresh (25)	Flushing (20)	2.75	2.20	4.95
6.	Transient Population (Shopping)	420 nos.	Fresh (5)	Flushing (10)	2.1	4.2	6.3
7.	Office Population	40 nos.	Fresh (25)	Flushing (20)	1.0	0.8	1.8
7.	Swimming Pool				10.0	-	10.0
8.	Filter Backwash				7.0	-	7.0
<b>TOTAL</b>					<b>276.0</b>	<b>99.7</b>	<b>375.7</b>

Details	Water (KLD)
Water requirement for domestic purpose	276.0
Wastewater generated from domestic use (@ 80% of domestic water requirement)	215.2
Water requirement for Flushing Purpose	99.7
Wastewater generated from Flushing (@ 100% of flushing requirement)	99.7
Total Wastewater generated	215.2+99.7 = 314.9 KLD
Recycled water form STP @ 90% of wastewater generated	283.41KLD

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## Solid Waste Requirement

S. No.	Category	Counts (heads)	Waste generated (kg/day)
1.	Residents	3620 @ 0.45 kg/day	1629.0
2.	Floating Population	370 @ 0.15 kg/day	55.5
3.	Others (Club House, Staff, Shopping)	1220 @ 0.15 kg/day	183.0
3.	STP sludge		56.0
<b>TOTAL SOLID WASTE GENERATED</b>			<b>1923.5 kg/day</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 3500.0 m<sup>2</sup> (@ 20.16 % of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

### Solid Waste Management

#### During Construction Phase



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

#### During Operation Phase

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

### Water Quality Management

#### During Construction Phase



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

#### **During Operation Phase**

- STP of capacity i.e. 350.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 276.0 KLD of fresh water is required during operational phase of the project.

#### **Air Quality Management**

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

#### **Energy conservation**

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 34 Nos. of solar panels will be used to save around 10 % of the total power requirement).

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 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

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9. Expansion of Group Housing Project "Oak Elegance" of M/s Nisith Keshari Constructions Pvt. Ltd. (NKCPL), Village : Pundag, Thana : Pundag, Thana No. : 288, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/72098/2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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

ToR Application for : Residential buildings: Total built-up area of 52485.98 sqm (Existing 18370.093 sq.m + Proposed 34115.887 sq.m).

Salient Features of the Project :

Parameters	Description
Plot Area	12994.90 m <sup>2</sup> (approx. 3.21 acre)
Project Cost	INR 45 Crores
Built-up Area	52485.98 m <sup>2</sup>
Green Area	1313.24 sq m (@ 11.4% of balance plot area)
Population	1795
Water Requirement	226 KLD
Fresh Water Requirement	157 KLD
Wastewater Generation	208 KLD
STP Capacity	220 KLD
Total Municipal Waste	858 kg/day
Power Requirement	1000 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 500 KVA
RWH Pits	04 no.
Parking	707 no.
Connecting road	Project site is well connected with road. 18.5 m wide road abuts project site in South direction.
National Highway	NH 75 (2.8 km, E) 18.5 m road (abuts site in S direction)

Nearest Railway Station	Ranchi junction Railway station, (6.3 km, E)
Airport	Birsa Munda Airport, (6.7 km, SE)
Nearest Hospitals	Vivekanda Hospital (4.3 km, NE) Santevita Hospital (5.3 km, E)
Nearest Water Bodies	Kanke Dam (4.6 km, NNE) Dhurwa Dam (7.2 km, SSW)

**Area Summary :**

Sl. no.	Description	Area (SQ M)
1.	Plot Area	12994.9
2.	Surrendered for road widening	113.26
3.	Net Plot Area	12881.64
4.	Common Plot	1414.88
5.	Balance plot area (1-2-3)	11466.62
6.	Permissible Ground Coverage (@35% of net plot area)	4508.53
7.	Proposed Ground Coverage (@26.48% of net plot area)	3411.04
8.	Permissible FAR (@3.0 of plot area)	38984.29
9.	Proposed FAR (@2.99 of plot area	38827.97
	Residential FAR	38139.59
	Commercial FAR	172.35
	Special FAR (School = 78.81 + Utility building = 165.33)	244.14
10.	Non FAR Area (including Basement)	13658.01
	Basement	8098.63
	On floors	5559.38
11.	Built-up Area	52485.98
12.	Green Area (@11.4% of balance plot area)	1313.24
13.	Height	59.9 m
14.	No of Dwelling Units	321

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**BUILT UP AREA DETAILS**

Building	No. of same Bldg	Gross Built up area (Sq.m)	Deductions from gross BUA (Area in Sq.m)	Total Built up area (Sq.m)
			Cutout	
A (Bungalow)	1	2380.53	114.37	2266.16
A (Block A)	1	18675.54	89.56	18585.98
A (Block B)	1	13527.26	113.23	13414.03
A (Block C)	1	18219.81	0.00	18219.81
Grant total	4	52803.14	317.16	52485.98

**CO-ORDINATES**

1	Latitude	From 23°21'26"N	To 23°21'31"N
2	Longitude	From 85°16' 31"E	To 85°16'34"E

**LAND DETAILS :**

		Khata No.	Plot no.
1	Village- Pudang, Thana -Pudang, Block-Nagadi, District-Ranchi	34	898
		155	899, 900, 903
		139	902
		230	906, 908

**STATUTORY CLEARANCES :**

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 2022, dated 23.06.2018 certified that the distance of notified forest is 1150 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 273, dated 18.03.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Nagri, Ranchi vide letter no. 308, dated 17.02.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatian.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/112317/

		263416 dated 28.11.2017.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 128/tech dated 06.02.2018.
6	Building Plan	: Approved Building Plan

#### Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
<b>Domestic</b>					
Residents	1605	135	217	152	65
Staff/Students	58	45	3	2	1
Visitors	132	15	4	3	1
<b>Total Domestic Water Demand</b>			<b>224</b>	<b>157</b>	<b>67</b>
Landscape	1313.24sq m	3 l/day	2	0	2
<b>Total</b>		-	<b>226</b>	<b>157</b>	<b>69</b>

Category	Total Quantity (KLD)
Fresh water Req.	157
Flushing water Req.	67
Sewage generation (@80% of the waterconsumption)	208
Capacity of STP	220
Recovered water from STP (80% of Waste water)	167
1. Flushing	67
2. Landscaping	2
3. Construction in nearby areas/roadwashing/sewer	98

#### Solid Waste Requirement

5. No.	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	1605	0.5	802.5	481.5	321
2.	Staff	58	0.25	14.5	8.7	5.8

3.	Visitors	132	0.15	19.8	11.88	7.92
4.	Landscape waste	0.32 acres	0.2 kg/acres	0.064	0.064	0
5.	STP sludge	208 KLD	--	21	21	0
<b>Total Waste Generated</b>				<b>858</b>	<b>523</b>	<b>335</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1313.24 sq m (@ 11.4% of balance plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

### Solid Waste Management

#### During Construction Phase

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



#### During Operation Phase

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

### Water Quality Management

#### During Construction Phase

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







#### During Operation Phase

- STP of capacity i.e. 220.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 157.0 KLD of fresh water is required during operational phase of the project.

#### Air Quality Management

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

#### Energy conservation

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 12 Nos of solar panels will be used to save around 10 % of the total power requirement).

#### During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

The PAs have submitted the above required documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

10. Affordable Housing for LIG and EWS "Global Platinum Argora Ranchi" of M/s Global Infra, Village : Argora, Tehsil : Argora, Dist : Ranchi, Jharkhand.

(Proposal No : SIA/JH/MIS/ 71870 /2022).

Name of the consultant : P & M SOLUTION, Noida

This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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

ToR Application for : Residential buildings: Total built-up area of 35916.12 sq m. (21549.67 sq m. + 14366.44 sq.m).

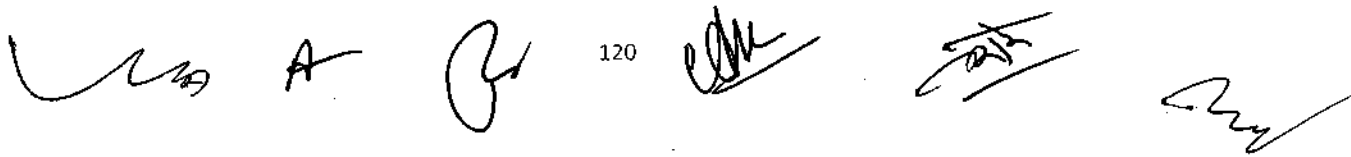
Salient Features of the Project :

Parameters	Description
Plot Area	8180.41 m <sup>2</sup> (approx. 2.021 acre)
Project Cost	INR 40 Crores
Built-up Area	35916.12 m <sup>2</sup>
Green Area	713 sq m (@10% of balance plot area)
Population	1595
Water Requirement	207 KLD
Fresh Water Requirement	143KLD
Wastewater Generation	191.0 KLD
STP Capacity	210.0 KLD
Total Municipal Waste	784 kg/day
Power Requirement	600 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 250 KVA
RWH Pits	03 no.
Parking	475 no.
Connecting road	The project site is well connected with road. 12.5 m wide road abuts project site in North direction.
National Highway	NH-75, 1.0 km E 12.5 m road (abuts site in N direction)

Nearest Railway Station	Ranchi junction Railway station, (4.9 km, E)
Airport	Birsa Munda Airport, (4.6 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.5 Km, SE) Raj Hospital (3.58 km, E)
Nearest Water Bodies	Ranchi Lake (3.29 km, NE) Dhurwa Dam (6.9 km, SSW) Kanke Dam (5.1 km, N)

**Area Summary :**

S. No.	Description	Area (sq m)
1.	Plot Area	8180.41
2.	Surrendered for road widening	209.89
3.	Net Plot Area	7970.52
4.	Common Plot	840.47
5.	Balance plot area (1-2-3)	713005
6.	Permissible Ground Coverage (@50% of net plot area)	3985.26
7.	Proposed Ground Coverage (@34.85% of net plot area)	2777.44
8.	Permissible FAR (@3.5 of plot area)	28631.43
9.	Proposed FAR (@3.24 of plot area	26533.74
	Residential FAR	26067.14
	Amenity building	465.60
10.	Non FAR Area (including Basement)	9,382.38
	Basement	2920.89
	On floors	6461.49
11.	Built-up Area	35916.12
12.	Green Area (@10% of balance plot area)	713
13.	Height	42.4
14.	No of Dwelling Units	298


 A B 120



**CO-ORDINATES**

1	Latitude	From 23°21'2.99"N	To 23°21'7.72"N
2	Longitude	From 85°17' 14.26"E	To 85°17'16.24"E

**LAND DETAILS :**

Khata no.	Plot no.
41	818,
88	773, 774,
141	790
79	806
77	819

**STATUTORY CLEARANCES :**

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 5057, dated 28.12.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide memo no. 1013, dated 16.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Argora, Ranchi vide letter no. 423, dated 14.10.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/011217/190884 dated 16.01.2017.
5	Building Plan	:	Approved Building Plan

**Water and waste water Requirement Details**

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
<b>Domestic</b>					
Residents	1490	135	201	141	60
Staff	30	45	2	1	1

Visitors	75	15	2	1	1
<b>Total Domestic Water Demand</b>			<b>205</b>	<b>143</b>	<b>62</b>
Landscape	713 sq m	3 l/day	2	0	2
<b>Total</b>		-	<b>207</b>	<b>143</b>	<b>64</b>

Category	Total Quantity (KLD)
Fresh water Req.	143
Flushing water Req.	62
Sewage generation (@80% of the water consumption)	191
Capacity of STP	210
Recovered water from STP (80% of Waste water)	152
15. Flushing	62
16. Landscaping	2
17. Construction in nearby areas/road washing/sewer	88

#### Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	1490	0.5	745	224	521
2.	Staff	30	0.25	8	2	5
3.	Visitors	75	0.15	11	3	8
4.	Landscape waste	0.18 acres	0.2 kg/acres	1	0	1
5.	STP sludge	190 KLD	--	19	0	19
<b>Total Waste Generated</b>				<b>784</b>	<b>229</b>	<b>554</b>

#### ENVIRONMENT MANAGEMENT

##### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 713 sq m (@10% of balance plot area) which will enhance the beauty of the site and help combat air and noise pollution.

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- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

### **Solid Waste Management**

#### **During Construction Phase**

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

#### **During Operation Phase**

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

### **Water Quality Management**

#### **During Construction Phase**



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

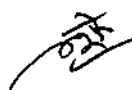
#### **During Operation Phase**

- STP of capacity i.e. 210.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 143.0 KLD of fresh water is required during operational phase of the project.

### **Air Quality Management**

- Warehouse/stock yard will be provided for storage of construction material
- Covering of stored construction materials with tarpaulin covers which will be resold to authorized construction material handling agency for reuse.




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

#### **Energy conservation**

Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 7 Nos of solar panels will be used to save around 10 % of the total power requirement).

**During the presentation the following documents were sought :**

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

**The PAs have submitted the above required documents.**

**Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of 5EIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :**

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

#### **11. Group Housing Project "Hope Residency" of M/s Home Line Buildcon, Village – Argora, Tehsil – Ranchi, Dist – Ranchi, Jharkhand.**

**(SIA/JH/MIS/71782/2022).**

**Name of the consultant : P & M SOLUTION, Noida**



This is a case of violation which has been taken for appraisal on 20.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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

ToR Application for : Residential buildings: Total built-up area of 21468.21sq m. (Existing 8587.284 sq.m + Proposed 12880.92 sq.m).

**Salient Features of the Project :**

Parameters	Description
Plot Area	4768.40 m <sup>2</sup> (approx. 1.18 acre)
Project Cost	INR 75 Crores
Built-up Area	21468.21 m <sup>2</sup>
Green Area	238.42 sq m (@ 5% of balance plot area)
Population	968
Water Requirement	125 KLD
Fresh Water Requirement	87 KLD
Wastewater Generation	115 KLD
STP Capacity	120 KLD
Total Municipal Waste	484 kg/day
Power Requirement	400 KVA (Jharkhand State Electricity board)
DG Sets	1 no. of DG set of Total 125 KVA
RWH Pits	07 no.
Parking	383 no.
Connecting road	The project site is well connected with road. Site abuts the road in West direction which connects to 9 m road at distance of 800 m in South direction.
National Highway	NH 75 (1.0 km, E) 9 m road (800 m, S)
Nearest Railway Station	Ranchi junction Railway station, (4.7 km, E)
Airport	Birsa Munda Airport, (3.5 km, SE)
Nearest Hospitals	Ranchi City Hospital, (2.5 Km, SE) Raj Hospital (3.6 km, ENE)
Nearest Water Bodies	Argoda Talab (900 m, NE) Ranchi Lake (3.5 km, NE) Dhurwa Dam (6.3 km, SW) Kanke Dam (5.1 km, N)







**Area Summary**

S. No.	Description	Area (sq m)
1.	Plot Area	4768.4
2.	Common Plot	508.01
3.	Balance plot area (1-2)	4260.39
4.	Permissible Ground Coverage (@35% of net plot area)	1668.94
5.	Proposed Ground Coverage (@32.76% of net plot area)	1562.28
6.	Permissible FAR (@3.5 of plot area)	16689.4
7.	Proposed FAR (@3.47 of plot area Residential Basement	16549.50 16527.2 22.3
8.	Non FAR Area (including Basement) Basement On floors	4,918.71 2270.7 2648.01
9.	Built-up Area	21468.21
10.	Green Area (@5% of plot area)	238.42
11.	Height	40.75
12.	No of Dwelling Units	181

**CO-ORDINATES :**

1	Latitude	From 23°20'59.10"N	To 23°21'03.90"N
2	Longitude	From 85°17' 16.6"E	To 85°17'20.40"E

**LAND DETAILS**

Khata no.	Plot no.
27	816
79	806, 807
197	808

**STATUTORY CLEARANCES :**

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 4530, dated 12.11.2020 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Ranchi Division vide memo no. 1007, dated 16.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated

			in any ESZ.
3	CO certificate	:	The CO, Argora, Ranchi vide letter no. 422, dated 14.10.2020 has mentioned the plot no. of the project is not recorded as "jangle Jhari" in R.S. Khatiyan.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/102318/344271 dated 29.10.2018.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 276/tech dated 31.01.2019.
6	Building Plan	:	Approved Building Plan

#### Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement	Fresh Water Requirement	Recycled Water requirement
<b>Domestic</b>					
Residents	905	135	122	86	36
Staff	18	45	1	0.5	0.5
Visitors	45	15	1	0.5	0.5
Total Domestic Water Demand			124	87	37
Landscape	238.42	3 l/day	1	0	1
<b>Total</b>		-	125	87	38

Category	Total Quantity (KLD)
Fresh water Req.	87
Flushing water Req.	37
Sewage generation (@90% of the fresh + 100% flushing water requirement)	115
Capacity of STP	120

Recovered water from STP (80% of Waste water)	92
18. Flushing	37
19. Landscaping	1
20. Construction in nearby areas/road washing/sewer	54

#### Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Recyclable (kg/day)	Non Recyclable (kg/day)
1.	Residents	905	0.5	453	136	317
2.	Staff	18	0.25	5	2	3
3.	Visitors	45	0.15	8	2	6
4.	Landscape waste	0.06 acres	0.2 kg/acres	1	0	1
5.	STP sludge	115 KLD	--	17	0	17
<b>Total Waste Generated</b>				484	140	344

#### ENVIRONMENT MANAGEMENT

##### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 238.42sq m (5% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

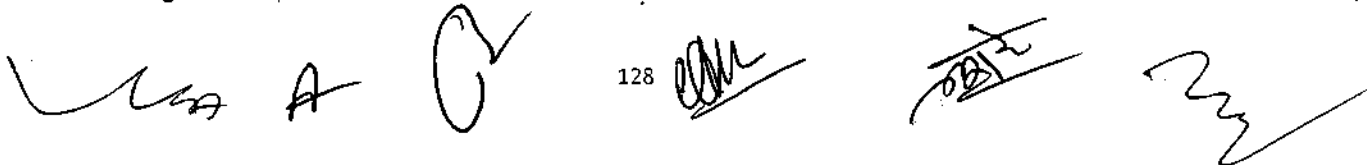
##### Solid Waste Management

###### During Construction Phase

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

###### During Operation Phase

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





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

### **Water Quality Management**

#### **During Construction Phase**

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

#### **During Operation Phase**

- STP of capacity i.e. 120.0 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.
- Approx. 87.0 KLD of fresh water is required during operational phase of the project.

### **Air Quality Management**

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




### **Energy conservation**

- Solar Panels will be used in Street Lights, Common area, Pumping area (approx. 5 Nos of solar panels will be used to save around 10 % of the total power requirement).

**During the presentation the following documents were sought :**

- i. Detail calculation of green cover area.
- ii. Revised water requirement calculation & its usage.
- iii. Revised solid waste calculation.

**The PAs have submitted the above required documents.**




Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

12. Smart Township Project of M/s Central Coalfield Ltd. through NBCC (India) Ltd., Village – Honhe, Tehsil – Tandwa, Dist – Chatra, Jharkhand.

(SIA/JH/MIS/184650/2020)

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

Ec Application For: Smart Township Project: The total plot area of the project site is 71 Acres (28.73 Ha or 287360 Sqm) and built-up area of the project will be 1,39,064.26 Sq m

Name of the consultant: P & M Solution, Noida

PROJECT and LOCATION Details:

Parameters	Description
Plot Area	287360 sq m (71 acres)
Project Cost	INR 488.23 Crores
Built-up Area	139064.26 sq m
Green Area	92372 sq m
Population	9069
Water Requirement	1516 KLD
Fresh Water Requirement	670 KLD
Wastewater Generation	891 KLD
STP Capacity	1000 KLD
Total Municipal Waste	3760 kg/day
Power Requirement	6000 kVA (Jharkhand State Electricity board)
DG Sets	1500 kVA
RWH Pits	30 no.
Parking	2-wheelers: 1056, Cars: 394
Connecting road	Project site is well connected with road. Site abuts the

	adjacent road in East direction.
National Highway	NBCC Road (divides site in 2 parts) Adjacent road (in East Direction)
Nearest Railway Station	Khairi railway station (27 km, S)
Airport	Birsa Munda Airport (74 km, SE).
Nearest Hospitals	Shivam Hospital (20.5 km, SW)
Nearest Water Bodies	Pond (low lying area-within the site and will be retained) Pond Outside Project Site (low lying area abuts NE boundary of site and will be retained) Nalla (Abuts site in West Direction)

#### CO-ORDINATES

1	Latitude	23°53'41.41"N
2	Longitude	84°58'44.72"E

**Khata no. and Plot no. of the project :**

Khata no.	Plot no.
1	801
2	730,732,734,784,785
4	702
8	602,660,667,670,671,682,696,709,803,805
9	790
11	727,729,740
12	710,719,720,726,742,744,757,780,794,802,804
14	786
15	748,781,791
16	708,738,749
19	574,683,718,725,728,754,787,789
22	644,739,753,765
30	731,800
32	674,689,701,752,755,777,793,797,
33	658,659,686
35	669,
38	672,679,688,745,773,783
40	666,681,746
41	596,687,694,747,774
43	769







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44	690
45	665,678,699,750
46	698,741,770,771,776
47	595,645,661,663,700,705,751
48	673,693,775
53	766
55	583,664,685,716,759,
56	760,761,763
60	581,715
61	573,654,662,684,695,703,704,706,713,714,717,764
62	582,711,733,737,788
64	655,657,668,762,767
65	712
83	758,782
84	578,580,603,643,656,675,691,692,697,736,743,743,756,768,778,779,792,795,796,798, 799,806,807
86	735

#### STATUTORY CLEARANCES

1	DFO Forest Distance	: DFO, Ranchi Forest Division vide letter no. 2947, dated 21.12.2021 certified that the distance of reserved / protected forest from plot no. 572, 573, 574, 578, 580, 582, 583, 595 & 596 is 0 m (Zero) from proposed project site.
2	DFO Wild Life	: DFO, Wildlife Hazaribagh Division vide letter no. 2063, dated 07.12.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	: The CO, Namkum (Ranchi) vide letter no. 926, dated 08.12.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
4	AAI NOC	: Height clearance from Airports Authority of India vide application no RANC/EAST/B/121020/ 51S594 dated 18.12.2020.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide memo no. 2850/tech/2020 dated 23.12.2020.
6	Permission from CGWA	: Will be obtained



#### Water and waste water Requirement Details




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Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement- KLD	Fresh Water Requirement- KLD	Recycled Water requirement- KLD
Domestic					
Residents	5970	135	806	564	242
Inpatients	34	340	12	8	4
Staff and Students	1546	45	70	49	21
Visitors	1397	30	42	29	13
Guests	156	180	28	20	8
Total Domestic Water Demand			958	670	288
Landscape	92372 sq m	6 l/day	555	0	555
Road Washing & Misc	--	--	3	0	3
Total		-	1516	670	846

Category	Total Quantity (KLD)
Fresh water Req.	670
Flushing water Req.	288
Sewage generation (@90% of the fresh water consumption + 100% flushing water)	891
Capacity of STP	1000
Recovered water from STP (80% of Waste water)	846
1. Flushing	288
2. Landscaping	555
3. Road Washing & Misc	3

**Solid Waste Requirement**




S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Compostable (Kg/day)	Recyclable (kg/day)	Inert Waste (kg/day)
1.	Residents	5970	0.5	2985	1791	896	298
2.	Inpatients	34	0.5	17	10	5	2
3.	Staff	1546	0.25	387	232	116	39
4.	Visitors	1322	0.15	198	119	60	19
5.	Guests	156	0.5	78	47	24	7
6.	Landscape waste	22.83	0.2	5	5	0	0
7.	STP sludge	891 KLD	--	90	90	0	0
Total Waste Generated				3760	2294	1101	365

## ENVIRONMENT MANAGEMENT

### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 92372 m<sup>2</sup> (@49.5% of open area/32.1 % of plot area which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Urban Standard Plantation norms and CPCB guidelines.
- Greenery around boundary wall is proposed

### Solid Waste Management

#### During Construction Phase

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

#### During Operation Phase

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

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

#### **Water Quality Management**

##### **During Construction Phase**

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

##### **During Operation Phase**

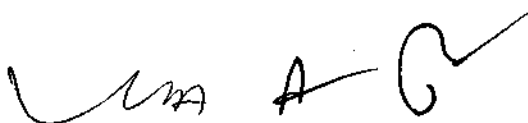
- STP of capacity i.e. 1000 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Horticulture, DG cooling, flushing, fire fighting and in nearby construction site/sewer.
- Use of water efficient plumbing fixtures to conserve water.

#### **Air Quality Management**

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

#### **Energy conservation**

Solar Panels will be used in Street Lights, Common area, Pumping area. A grid connected solar PV plant of capacity 300 KWp will be provided at the site. Other than this 70 nos of solar street lights will be provided at site






During the presentation the following documents were sought :

- i. Detail calculation of green cover area.
- ii. Details of energy conservation.
- iii. Submission of contour plan and evacuation plan.
- iv. Revised water requirement calculation & its usage.
- v. Revised EMP & Monitoring budget during construction & operation phase.
- vi. Revised solid waste calculation.
- vii. Justification of increase noise level.
- viii. Details of rain water harvesting & its usage.
- ix. Undertaking regarding safety barrier of 7.5 m from reserved / protected forest site for the construction activity.

The PAs have submitted the above required documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Smart Township Project of M/s Central Coalfield Ltd. through NBCC (India) Ltd., Village – Honhe, Tehsil – Tandwa, Dist – Chatra, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith the following specific conditions :

- I. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- III. All raw material to be stored only under covered shed.
- IV. PAs to ensure ZERO DISCHARGE for its process discharges.
- V. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- VI. Green belt and Green cover to be implemented as provided in layout plan.

13. Bhuska Stone Deposit Project of Sri Suresh Kumar Tanwani, Village – Bhuska, Thana : Pakur, Dist. – Pakur, Jharkhand (2.54 Ha).

(Proposal No. SIA/JH/MIN/68224/2024).

Project Category: B1 – Application for Terms of Reference

EC Application for: Proposed Capacity- 27578 cum/annum or 82734 TPA



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

This is a new project which has been taken for appraisal on 20.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Bhuska Stone Deposit
2	Lessee:	: M/s Sri Suresh Kumar Tanwani S/o Late Suraj Lal Tanwani At Village –Sindhipara Thana – Pakur , State – Jharkhand.
3	Lease Address	: Village – Bhuska, Thana - Pakur, District – Pakur, State –Jharkhand.
4	Lease Area	: 2.54 ha Acres- 6.27Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 30 Lakhs
7	EMP Budget	: Capital: 5.30 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.60 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 275851 cum Tonnes: 827553 tons
11	Mine Life	: 10 years
12	Man power	: 30
13	Water Requirement	: 13.10 KLD (Drinking: 0.30 KLD, Dust Suppression: 5.60 KLD, Plantation: 7.20 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Torai River, 7.50 km, NW direction
18	Nearest Habitation	: Bhuska, 0.40 km
19	Nearest Rail Station	: Pakur Railway station, approx. 4.70 km
20	Nearest Air Port	: Kazi Nazrul Islam Airport, Durgapur, West Bengal, approx. 123.30 km.
21	Nearest Forest	: Dhangora Pahar Protected Forest, Approx. 6.50 km. in W direction. Dharni Pahar Protected Forest, Approx. 7.50 km. in WSW direction. Protected Forest near Mohanpur village, Approx. 3.70 km. in SSE direction.
22	Road & Highways	: NH-114A, Approx. 3.50 km. in N direction. SH-7, Approx. 8.40 km. in SE direction. NH-34, Approx. 13.40 km. in NE direction.

**CO-ORDINATES**

1	Latitude	From 24°36'20.31"N	To 24°36'27.51"N
2	Longitude	From 87°49'13.46"E	To 87°49'22.92"E

**LAND DETAILS**

Khata no.	Plot no.
8	563, 564, 565, 566, 567, 568, 569, 570, 573, 574, 575, 576
11	843, 844, 845, 846
17	851, 854
24	650/P
26	861/P
31	856, 857, 858, 859, 860
34	850

**STATUTORY CLEARANCES**

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 923/M dated 25.06.2021
2	CO	: The CO, Pakur vide letter no. 1885 dated 12.12.2020 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyon & Register II.
3	DMO	: DMO, Pakur vide letter no. 1147/M, Pakur on 03-07-2021 certified that 03 leases (6.83 acre, 5.43 acre & 7.00 acre) exist within 500 m radius and total lease is 10.33 ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 569, dated 17.03.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division vide letter no. 790, dated 19.05.2021 certified that the distance from the nearest RF/Pf from the project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, Pakur vide letter no. 1412, dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 27-11-2020

8	Mine Plan Approval	: Vide Memo no. 1454/M on 19.08.2021
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**Working Details**

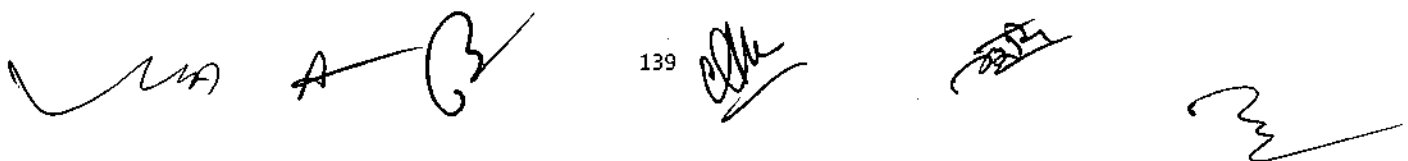
1	Mining Method	: Opencast Mechanized Mining method
2	Quarry Area	: 5 years-1.07 ha      Life of Mine - 1.66 ha
3	Waste Generation	: 5 years- 6016.00 cu.m
4	Stripping Ratio	: 1: 0.09
5	Working Days	: 300
6	Bench: size & No	: 6m x 6m
7	Elevation of Mine	: 46 AMSL to 51 AMSL
8	Ground Level Elevation	: 46 AMSL
9	Ultimate Working Depth	: 33 AMSL (13 mbgl)
10	Water Table	: 13 AMSL (33 m bgl)
11	Topography of Mine	: Area represents a flat ground with very less undulations in its topography.
12	Explosive Requirement	: 45 kg slurry explosive
13	Diesel/Fuel requirement	: 8 liter/day

**Production Details :**

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench Amsl in Meters
1 <sup>st</sup>	82530.0	27510.0	1974	51 mRL - 45 mRL
2 <sup>nd</sup>	82734.0	27578.0	1312	51 mRL - 45 mRL
3 <sup>rd</sup>	82410.0	27470.0	2730	51 mRL - 45 mRL
4 <sup>th</sup>	82650.0	27550.0	Nil	45 mRL - 39 mRL
5 <sup>th</sup>	82431.0	27477.0	Nil	45 mRL - 33 mRL
<b>Total</b>	<b>412755.0</b>	<b>137585.0</b>	<b>6016.00</b>	

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
	Nil		1.66 (0.99 ha area)


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Quarry		1.07	will be converted into water reservoir and 0.67 ha area will be left as water reservoir)
Road	0.01	0.02	Nil
Safety Zone Plantation	Nil	0.88	0.88
<b>Total</b>	<b>0.01</b>	<b>1.97</b>	<b>2.54</b>
<b>Unused Area</b>	<b>2.53</b>	<b>0.57</b>	<b>0.000</b>
<b>Total applied area</b>	<b>2.54</b>	<b>2.54</b>	<b>2.54</b>

**ENVIRONMENT MANAGEMENT**  
**Green Belt Development**

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	0.88 ha	2200
2	Haul /Approach Road	0.20 km	200

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

**Solid Waste Management**

- Waste Generation will be 6016.00 cum during the plan period. During 1<sup>st</sup> & 2<sup>nd</sup> year gritty soil will be removed and temporarily dumped at the southern part of the area and in 3<sup>rd</sup> year, the soil will be dumped in south-western wing of the area and used for plantation & maintenance of road.

**Water Quality Management**

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 8m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing

discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside

- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

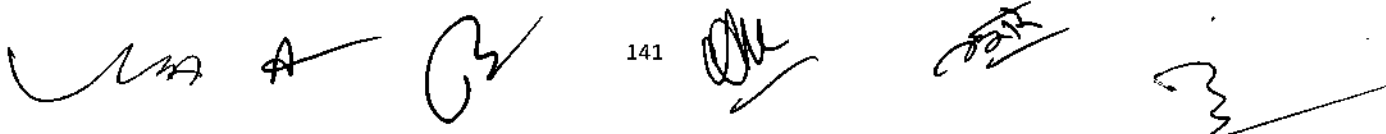


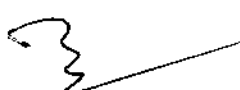
#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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

**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 18, 19,**

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20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

14. Bhuska Stone Deposit Project of Sri Dinesh Tanwani, Village – Bhuska, Thana : Pakur, Dist – Pakur, Jharkhand (2.00 Ha)  
(Proposal No. SIA/JH/MIN/68766/2021).

Project Category: B1 – Application for Terms of Reference

EC Application for: Proposed Capacity- 14429 cum/annum or 43288 TPA

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

This is a new project which has been taken for appraisal on 20.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Bhuska Stone Deposit
2	Lessee:	: M/s Sri Dinesh Tanwani S/o Indra Kumar Tanwani Vill-Sindhipara, District– Pakur, State – Jharkhand.
3	Lease Address	: Village – Bhuska, Thana - Pakur, District – Pakur, State –Jharkhand.
4	Lease Area	: 2.0 ha Acres-4.93 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 25 Lakhs
7	EMP Budget	: Capital: 4.01 Lakhs Recurring: 3.27 Lakh /year
8	CSR / CER Budget	: Rs. 0.50 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 144293 cum Tonnes: 432879 tons
11	Mine Life	: 10 years
12	Man power	: 30
13	Water Requirement	: 10.30 KLD (Drinking: 0.30 KLD, Dust Suppression:4.35 KLD, Plantation:5.64 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Torai River, 7.50 km, NW direction
18	Nearest Habitation	: Bhuska, 0.30 km
19	Nearest Rail Station	: Pakur Railway station, approx. 4.70 km
20	Nearest Air Port	: Kazi Nazrul Islam Airport, Durgapur, West Bengal, approx. 123.30 km.

21	Nearest Forest	:	Dhangora Pahar Protected Forest, Approx. 6.50 km. in W direction. Dharni Pahar Protected Forest, Approx. 7.50 km. in WSW direction. Protected Forest near Mohanpur village, Approx. 3.70 km. in SSE direction.
22	Road & Highways	:	NH-114A, Approx. 3.50 km. in N direction. SH-7, Approx. 8.40 km. in SE direction. NH-34, Approx. 13.40 km. in NE direction.

**CO-ORDINATES :**

1	Latitude	From 24°36'22.43"N	To 24°36'28.99"N
2	Longitude	From 87°49'07.95"E	To 87°49'18.09"E

**LAND DETAILS :**

1	Bhuska	:	<b>KHATA NO.</b>	<b>PLOT NO.</b>
			34	528, 531 & 562
			05	550
			06	549
			08	529, 530, 532, 535, 536, 537, 554, 555, 556, 557, 558, 559, 560 & 561
			33	533, 534, 551, 552 & 553

**STATUTORY CLEARANCES**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1072/M dated 06.07.2021.
2	CO	:	The CO, Pakur vide letter no. 1884 dated 12.12.2020 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1145/M, Pakur on 15.07.2021 certified that there are four other leases within 500 m radius and total lease within 500 m radius from proposed project is 12.33 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 570, dated 17.03.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

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5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 791, dated 19.05.2021 certified that the distance from the nearest RF/Pf from the project site is more than 250 m.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no. 1412, dated 12.08.2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 07-11-2020
8	Mine Plan Approval	:	Vide Memo no. 1453/M on 19.08.2021

### Working Details

1	Mining Method	:	Opencast Mechanized Mining method
2	Quarry Area	:	5 years–1.05 ha      Life of Mine – 1.29 ha
3	Waste Generation	:	5 years– 3671.00 cu.m
4	Stripping Ratio	:	1: 0.08
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	46 AMSL to 49 AMSL
8	Ground Level Elevation	:	46 AMSL
9	Ultimate Working Depth	:	37 AMSL (9 m bgl)
10	Water Table	:	13 AMSL (33 m.bgl)
11	Topography of Mine	:	Area represents a very gently sloping land
12	Explosive Requirement	:	45 kg slurry explosive
13	Diesel/Fuel requirement	:	8 liter/day

### Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench Amsl in Meters
1 <sup>st</sup>	43288.00	14429.00	1220.00	49 mRL – 43 mRL
2 <sup>nd</sup>	43285.00	14428.00	990.00	49 mRL – 43 mRL
3 <sup>rd</sup>	43288.00	14429.00	978.00	49 mRL – 43 mRL
4 <sup>th</sup>	43285.00	14428.00	483.00	49 mRL – 37 mRL
5 <sup>th</sup>	43288.00	14429.00	Nil	43 mRL – 37 mRL



Total	216434.00	72143.00	3671.00	
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#### Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	-	1.05	1.29 (Entire area will be converted into water reservoir)
Road	0.01	-	-
Safety Zone Plantation	-	0.71	0.71
Dump	-	0.04	-
Parapet Wall	-	0.002	-
Garland Drain	-	0.003	-
<b>Total Area in use</b>	<b>0.01</b>	<b>1.805</b>	<b>2.0</b>
<b>Unused Area</b>	<b>1.99</b>	<b>0.195</b>	<b>0.000</b>
<b>Total Applied Area</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>

#### ENVIRONMENT MANAGEMENT

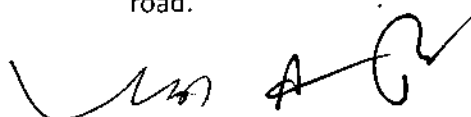
##### Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	0.71 ha	1780
2	Haul /Approach Road	0.10 km	100

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

##### Solid Waste Management

- Waste Generation will be 3671.00 cum (dump area- 0.040 ha) during the plan period. During 1<sup>st</sup> year gritty soil will be removed and temporarily dumped at the eastern part of the area with suitable precautions like parapet wall and garland drain and in 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> year little amount of gritty soil will be removed and used for plantation & maintenance of road.






### Water Quality Management







- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 8m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

### Air Quality Management

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

### Undertaking submitted affirming:

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

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- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority:

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

Day 4 : February 21, 2022 [Monday]

**Consideration of Proposals**

1. Namsol Brick Earth Deposit of M/s Sona Bricks, Village : Namsol, P.O. : Chota Bangurda, Thana : Boram, Dist. : East Singhbhum, Jharkhand (1.77 Ha).

(Proposal No. : SIA/JH /MIN/241922 /2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Production capacity: 1200.00 cum/season or 1560 T/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**







Sl	Parameter	Details
1	Project Name	: Namsol Brick Soil Mine
2	Lessee:	: M/S SONA BRICKS Proprietor - Sri Bipendra Singh Sri Nilkamal Mahato S/o Late K. P. Singh House No. 15, Shankosai Road No. 3, Dimna Road, Mango, P.S.- Ulidih O.P., District- East Singhbhum, State- Jharkhand
3	Lease Address	: Village: Namsol, Thana.- Boram, District- East Singhbhum, Jharkhand
4	Lease Area	: Ha:1.77 ha Acres:4.39 Acres

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5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 20 Lakhs
7	EMP Budget	:	Capital: 4.65 Lakhs Recurring: 2.97 Lakh / year
8	CSR / CER Budget	:	Rs. 0.40 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 19980.00 Cu. M. Tonnes: 25974.00 MT
11	Mine Life	:	16.65 years or 17 years
12	Man power	:	12
13	Water Requirement	:	11.7 KLD (Drinking:0.12 KLD, Dust Suppression:5.60 KLD, Plantation:S.8S KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No Crusher
17	Nearest Water Body	:	Sona Nadi, Approx. 3.50 km, N Side Nengsai River, Approx. 6.00 km, NE Side
18	Nearest Habitation	:	Rupsan, 0.70km
19	Nearest Rail Station	:	Nimdih Railway Station, approx. 18.20 km, W Side
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, approx. 109.10 km, W side
21	Nearest Forest	:	Hathiadih Protected Forest , Approx. 5.5 km WNW direction Lailam PF, Approx. 9.5 km S direction Protected Forest near Jharki village, Approx. 6.5 km S direction Protected Forest near Kuiani village, Approx. 8.0 km WSW direction Kherua PF, Approx. 7.0 km SSE direction
22	Road & Highways	:	SH- 6, approx., 9.60 km towards NNE direction NH-116B, approx, 9.70 km towards NNE direction NH-33, approx, 9.70 km towards Sw direction

**CO-ORDINATES :**

1	Latitude	From 22°57'03.66"N	To 22°57'08.67"N
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2	Longitude	From 86°18'54.56"E	To 86°19'03.98"E
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#### LAND DETAILS

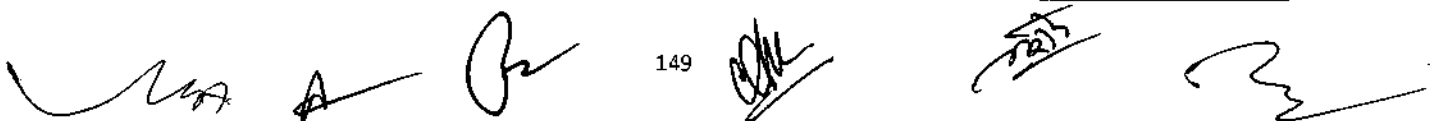
1	Namsol	Khata No.	Plot no.
		7	595, 596, 597, 634, 635, 636 & 637

#### STATUTORY CLEARANCES

1	LOI/Lease docs	:	The land agreement has been made on 23.08.2018
2	CO	:	The CO, Boram vide letter no. 462, dated 22/09/2021 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S, Khatiyan & Register II.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide letter no. 294/M dated 13.02.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1358 dated 02/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO Jamshedpur Forest Division vide letter no. 1941, dated 27/08/2021 certified that the distance of reserved / protected forest from the Project site is more than 250 m.
6	DSR	:	The Project is mentioned in District Survey Report (DSR), East Singhbhum District.
7	Gram Sabha	:	On 28-08-2018
8	Mine Plan Approval	:	Vide letter no. 718/G dated 28/11/2021

#### Working Details

1	Mining Method	:	Open Cast manual method	
2	Quarry Area	:	5 years-0.33 ha	Life of Mine - 1.11ha
3	Waste Generation	:	5 years-Nil	Life of Mine - Nil
4	Stripping Ratio	:	1: 0.0	
5	Working Days	:	200	
6	Benches: size & No	:	1m x 1m	
7	Elevation of Mine	:	250 AMSL to 251 AMSL	



8	Ground Level Elevation	:	250 AMSL
9	Ultimate Working Depth	:	248 AMSL (2 bgl)
10	Water Table	:	240 AMSL (10 bgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	Not applicable
13	Diesel/Fuel requirement	:	3 litre/day

### Production Details

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.3
1 <sup>st</sup>	1200.00	600000	1560.00
2 <sup>nd</sup>	1200.00	600000	1560.00
3 <sup>rd</sup>	1200.00	600000	1560.00
4 <sup>th</sup>	1200.00	600000	1560.00
5 <sup>th</sup>	1200.00	600000	1560.00
<b>Total</b>	<b>6000.00</b>	<b>3000000</b>	<b>7800.00</b>

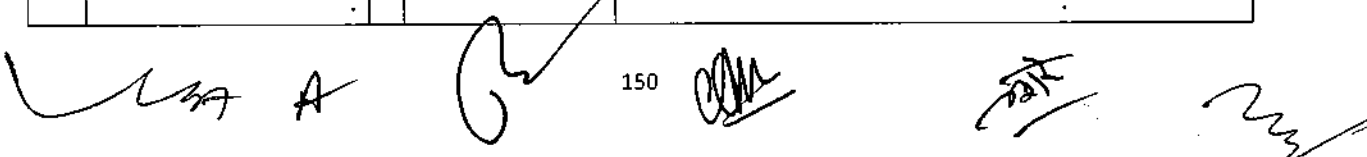
### Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.33	1.11
Road	Nil	Nil	Nil
Safety Barrier	Nil	0.66	0.66
<b>Total</b>	<b>Nil</b>	<b>0.99</b>	<b>1.77</b>
<b>Unused Area</b>	<b>1.77</b>	<b>0.78</b>	<b>0.000</b>
<b>Total Area</b>	<b>1.77</b>	<b>1.77</b>	<b>1.77</b>

### ENVIRONMENT MANAGEMENT

#### Green Belt Development

SL	LOCATION	Area/Length	No of Trees
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1	Safety Zone	:	0.66ha	1550
2	Haul /Approach Road	:	0.30 km	300

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

#### Solid Waste Management

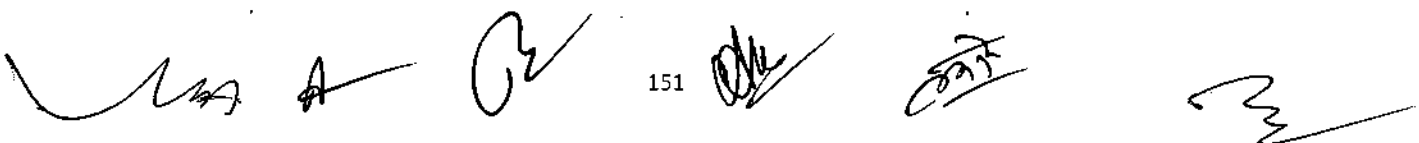
- Nil

#### Water Quality Management

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

#### Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.



- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Namsol Brick Earth Deposit of M/s Sona Bricks, Village : Namsol, P.O. : Chota Bangurda, Thana : Boram, Dist. : East Singhbhum, Jharkhand (1.77 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

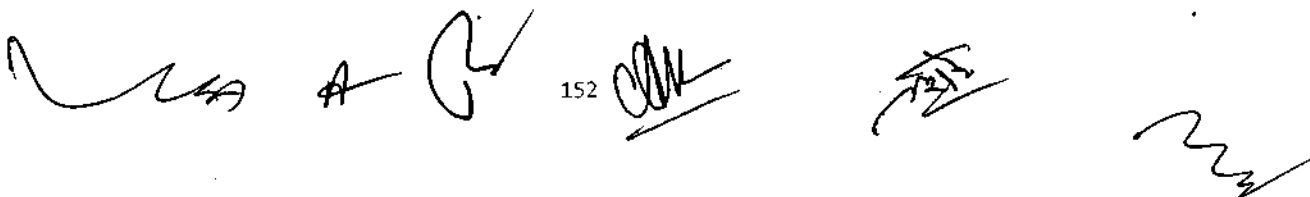
2. Bishanpur Stone Deposit of Sri Bhawesh Tanwani, Village : Bishanpur, Thana : Pakur, Dist. : Pakur, Jharkhand (2.17 Ha).

(Proposal No. : SIA/JH/MIN/ 253906/ 2022).

**Project Category** : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 88<sup>th</sup> meeting held on 23<sup>rd</sup>, 24<sup>th</sup>, 25<sup>th</sup>, 26<sup>th</sup> & 28<sup>th</sup> June, 2021 and SEIAA, Jharkhand has approved the ToRs in 89<sup>th</sup> meeting held on 05<sup>th</sup>, 06<sup>th</sup> & 07<sup>th</sup> July, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 65, date 15.07.2021.

The final EIA / EMP [common for 03 projects namely 1. Bishanpur Stone Deposit (2.17 ha) 2. Bishanpur Stone Deposit (1.26 ha) 3. Bhuska Stone Deposit (2.20 ha)] submitted to SEIAA on 15.02.2022 and which was forwarded to SEAC on 15.02.2022.

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Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Bishanpur & Bhuska Stone cluster Mine
2	Lessee:	: Shri Bhawesh Tanwani S/o Shri Suresh Tanwani At Vill – Sindhipara, P.S. – Pakur, Dist. – Pakur, State – Jharkhand
3	Lease Address	: Village- Bishanpur, Thana-Pakur, District-Pakur, State :-Jharkhand
4	Lease Area	: 2.17 ha   Acres-5.36 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs 1.4 crore (for cluster)
7	EMP Budget	: Capital: 16.78 Lakhs (for cluster)   Recurring: Rs 8.89 Lakh/ year (for cluster)
8	CSR / CER Budget	: Rs 2.8 lakhs (for cluster)
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 297,676 cum   Tonnes: 8,93,028 tons
11	Mine Life	: 5.00 years
12	Man power	: 30
13	Water Requirement	: 8.50 KLD (Drinking: 0.30 KLD, Dust Suppression: 5.40 KLD, Plantation: 2.8 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Torai Nadi, 7.0 km, NW direction
18	Nearest Habitation	: Bishanpur, 0.5 km
19	Nearest Rail Station	: Pakur Railway station, 5.0 km
20	Nearest Air Port	: Kazi Narul Islam Airport, Durgapur, 125 km
21	Nearest Forest	: Dhangora PF at Approx. 6.30 km. in W direction of mine site. Dharni Pahar PF at Approx. 7.20 km. in WSW direction of mine site. PF near Mohanpur village at Approx. 3.60 km. in SSE direction.
22	Road & Highways	: SH-7, approx. 8.6 km towards SE direction. NH-34, approx,13.3 km towards NE Direction.

**CO-ORDINATES**

1	Latitude	From 24°36'27.05" N	To 24°36'33.64" N
2	Longitude	From 87°49'09.14" E	To 87°49'15.29" E

LAND DETAILS

Bishanpur	:	Khata no.	Plot no.
		05	1000 & 1001
		09	998
		10	996
		19	992
		23	993 & 994
		26	997
		32	999

STATUTORY CLEARANCES

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1429/M, dated 27.08.2019
2	CO	:	The CO, Pakur vide letter no. 1221, dated 05.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.5 Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1792/M, dated 16-10-2019 certified that 05 lease exist within 500 m radius from proposed project site. Total lease area within 500 m radius is 5.63 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1429, dated 25.07.2019 certified that the Udhwa Bird Lake Sanctuary is 41,160 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Division vide letter no. 752, dated 09.07.2019 certified that the distance of notified forest is 1060 m (distance from Durgapur Sal Forest).
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Pakur district.
7	Gram Sabha	:	On 18-07-2019
8	Mine Plan Approval	:	Vide letter no. 473/DDM on 23.10.2019
9	Baseline data	:	December, 2020 to February, 2021 by NABL accredited laboratory.

10	Public Hearing	on 27.11.2021
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### Working Details

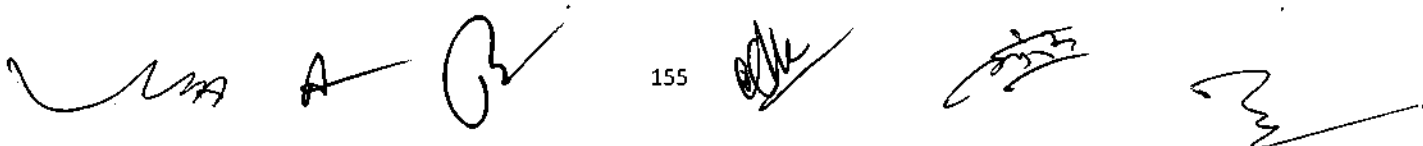
1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years- 1.61 ha      Life of Mine - 1.61 ha
3	Waste Generation	: 5 years- 5945 cum
4	Stripping Ratio	: 1: 0.03
5	Working Days	: 300
6	Bench: size & No	: 6m x 6m
7	Elevation of Mine	: 49 AMSL to 51 AMSL
8	Ground Level Elevation	: 49 AMSL
9	Ultimate Working Depth	: 21 AMSL (28 mbgl)
10	Water Table	: 5AMSL(max. 44 m bgl)
11	Topography of Mine	: Area represents a gently sloping land
12	Explosive Requirement	: 50 kg slurry explosive
13	Diesel/Fuel requirement	: 9 liter/day

### Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	178615	59,538.33	4331	51 mRL - 45 mRL
2 <sup>nd</sup>	178623	59,541	690	51 mRL - 39 mRL
3 <sup>rd</sup>	178638	59,546	00	45 mRL - 33 mRL
4 <sup>th</sup>	178608	59,536	00	39 mRL - 21 mRL
5 <sup>th</sup>	178544	59,514.67	924	51 mRL - 21 mRL
<b>Total</b>	<b>893028</b>	<b>297,676</b>	<b>5945</b>	

### Land Use

Pattern of Utilization	Existing (Ha)	During plan period (ha)	After Life of mine (ha)
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Quarry	Nil	1.61 (including backfilling)	1.61 (including backfilling & reservoir)
Road	0.003	-	-
Safety Zone	0.560	0.56	0.56
<b>Total</b>	<b>0.563</b>	<b>2.17</b>	<b>2.17</b>
<b>Unused Area</b>	<b>1.607</b>	<b>0.00</b>	<b>0.00</b>
<b>Lease hold area</b>	<b>2.17</b>	<b>2.17</b>	<b>2.17</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.56 ha	1400
2	Haul /Approach Road	:	0.43 km	430

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

### Solid Waste Management

- About 5945 cum waste/rejects is likely to be generated during the plan period. During 1st year of mine development the mined out gritty soil will be temporarily dumped at the NE and in 5th year will be backfilled in exhausted quarry.

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to

prevent water flowing into the lease area from outside or from inside the lease area to the outside

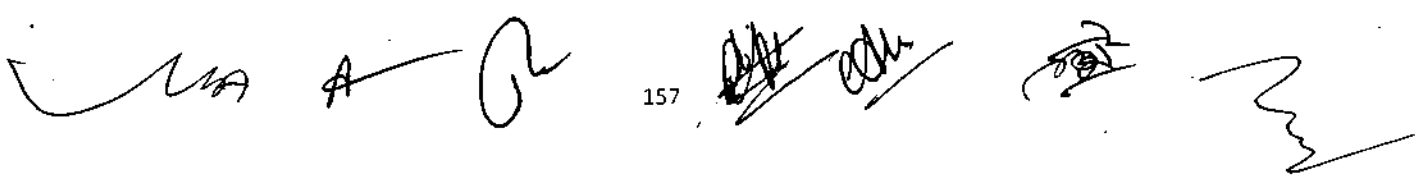
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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

A series of handwritten signatures and initials in black ink, including a large flourish on the left, several distinct signatures in the middle, and a large scribble on the right.



	Requirement	3.9 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Torai Nadi, 7.0 km, NW direction
18	Nearest Habitation	: Bishanpur, 0.5 km
19	Nearest Rail Station	: Pakur Railway station, 5.0 km
20	Nearest Air Port	: Kazi Narul Islam Airport, Durgapur, 125 km
21	Nearest Forest	: Dhangora PF at Approx. 6.30 km. in W direction of mine site. Dharni Pahar PF at Approx. 7.20 km. in WSW direction of mine site. PF near Mohanpur village at Approx. 3.60 km. in SSE direction.
22	Road & Highways	: SH-7, approx. 8.6 km towards SE direction. NH-34, approx,13.3 km towards NE Direction.

#### CO-ORDINATES

1	Latitude	From 24°36'29.58" N	To 24°36'34.55"N
2	Longitude	From 87°49'13.25"E	To 87°49'19.15"E

#### LAND DETAILS

	Plot no.	Khata no.
Bishanpur	14	1006 & 1007
	15	1320
	16	1010
	18	1313 & 1314
	20	1312 & 1319
	23	1321
	37	1011 & 1014
	46	1015

#### STATUTORY CLEARANCES

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 1430/M, dated 27.08.2019
2	CO	: The CO, Pakur vide letter no. 1246, dated 10.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & Register II.
3	DMO	: DMO, Pakur vide memo no. 1791/M, Pakur on 16-10-2019 certified that 05 lease exist within 500 m radius from proposed

		project. Total lease area within 500 m radius is 5.63 ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1430, dated 25.07.2019 certified that the Udhwa Lake Bird Sanctuary is 39,390 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Division vide letter no. 755, dated 09.07.2019 certified that the distance of notified forest is 1080 m from proposed project site.
6	DSR	: This project site has mentioned in District Survey Report (D5R) of Pakur district.
7	Gram Sabha	: On 18-07-2019
8	Mine Plan Approval	: Vide letter no. 472/DDM on 23.10.2019
9	Baseline data	December, 2020 to February, 2021 by NABL accredited laboratory.
10	Public Hearing	on 27.11.2021

#### Working Details

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years- 0.49 ha      Life of Mine - 0.49 ha
3	Waste Generation	: 5 years- 2129 cum
4	Stripping Ratio	: 1: 0.03
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 51 AMSL to 53 AMSL
8	Ground Level Elevation	: 51 AMSL
9	Ultimate Working Depth	: 41 AMSL (10 mbgl)
10	Water Table	: 7AMSL (max. 44 m bgl)



11	Topography of Mine	:	Area represents a gently sloping land
12	Explosive Requirement	:	50 kg slurry explosive
13	Diesel/Fuel requirement	:	9 liter/day

#### Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	19200	6,400	525	53 mRL – 47 mRL
2 <sup>nd</sup>	19181	6,393.67	616	53 mRL – 47 mRL
3 <sup>rd</sup>	19192	6,397.33	686	53 mRL – 47 mRL
4 <sup>th</sup>	19178	6,392.67	00	47 mRL – 41 mRL
5 <sup>th</sup>	19123	6,374.33	302	53 mRL – 41 mRL
<b>Total</b>	<b>95874</b>	<b>31,958</b>	<b>2129</b>	

#### Land Use

Pattern of Utilization	Existing (Ha)	During plan period (ha)	After Life of mine (ha)
Quarry	Nil	0.490 (including road)	0.490 (including road & reservoir)
Road	0.002	-	-
Safety Zone	0.770	0.770 (plantation)	0.770 (plantation)
<b>Total</b>	<b>0.772</b>	<b>1.260</b>	<b>1.260</b>
Unused Area	0.488	0.000	0.000
Lease hold area	1.260	1.260	1.260

#### ENVIRONMENT MANAGEMENT

##### Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	0.772 ha	1930
2	Haul /Approach Road	0.43 km	430

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

#### **Solid Waste Management**

- About 2129 cum waste/rejects is likely to be generated during the plan period. During plan period mined out gritty soil will be used for road dressing & plantation.



#### **Water Quality Management**

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### **Air Quality Management**

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

Undertaking submitted affirming:

 A 







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

**Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bishanpur Stone Deposit Project of Sri Pawan Kumar Tanwani, Village – Bishanpur, Thana – Pakur, Dist – Pakur, Jharkhand (1.26 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.**

**4. Bhuska Stone Deposit Project of Sri Piyush Tanwani, Village – Bhuska, Tehsil – Pakur, Dist – Pakur, Jharkhand (2.20 Ha).**

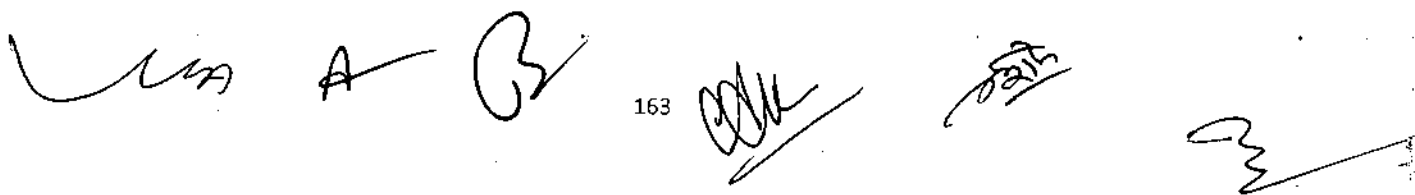
**(Proposal No. SIA/JH/MIN/2S3926/2022).**

**Project Category** : The State Expert Appraisal Committee, Jharkhand deliberated the project during its 88<sup>th</sup> meeting held on 23<sup>rd</sup>, 24<sup>th</sup>, 25<sup>th</sup>, 26<sup>th</sup> & 28<sup>th</sup> June, 2021 and SEIAA, Jharkhand has approved the ToRs in 89<sup>th</sup> meeting held on 05<sup>th</sup>, 06<sup>th</sup> & 07<sup>th</sup> July, 2021. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 70, date 23.07.2021.

The final EIA / EMP [common for 03 projects namely 1. Bishanpur Stone Deposit (2.17 ha) 2. Bishanpur Stone Deposit (1.26 ha) 3. Bhuska Stone Deposit (2.20 ha)] submitted to SEIAA on 15.02.2021 and which was forwarded to SEAC on 15.02.2022.

**Name of the consultant: P & M Solution, Noida**

This is a new project which has been taken for appraisal on 21.02.2022

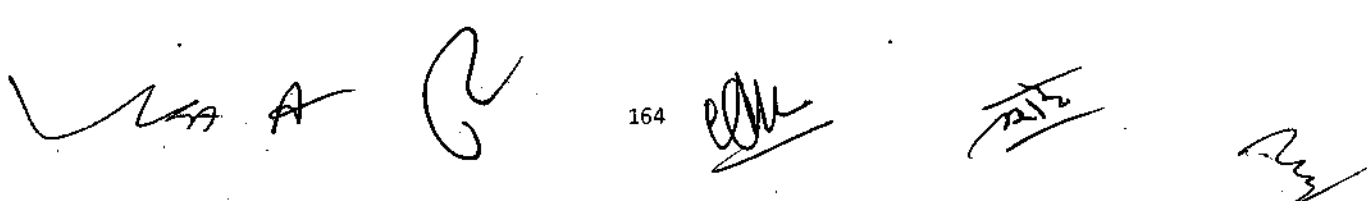

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**PROJECT and LOCATION Details:**

Sl	Parameter	Details	
1	Project Name	: Bishanpur & Bhuska Stone cluster Mine	
2	Lessee:	: Shri Piyush Tanwani S/o Shri Anil Tanwani R/o- Vill – Sindhipara, P.S. – Pakur, Dist. – Pakur, State – Jharkhand	
3	Lease Address	: Village- Bhuska, Thana-Pakur, District-Pakur, State :-Jharkhand	
4	Lease Area	: 2.20 ha	Acres-5.436 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs 1.4 crore (for cluster)	
7	EMP Budget	: Capital: 16.78 Lakhs (for cluster)	Recurring: Rs 8.89 Lakh/ year (for cluster)
8	CSR / CER Budget	: Rs 2.8 lakhs (for cluster)	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 281,450 cum	Tonnes: 8,44,350 tons
11	Mine Life	: 5.00 years	
12	Man power	: 30	
13	Water Requirement	: 7.0 KLD(Drinking: 0.30 KLD, Dust Suppression: 3.10 KLD, Plantation: 3.6 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No crusher	
17	Nearest Water Body	: Torai Nadi, 7.0 km, NW direction	
18	Nearest Habitation	: Bhuska, 0.4 km	
19	Nearest Rail Station	: Pakur Railway station, 5.0 km	
20	Nearest Air Port	: Kazi Narul Islam Airport, Durgapur, 125 km	
21	Nearest Forest	: Dhangora PF at Approx. 6.30 km. in W direction of mine site. Dharni Pahar PF at Approx. 7.20 km. in WSW direction of mine site. PF near Mohanpur village at Approx. 3.60 km. in SSE direction.	
22	Road & Highways	: SH-7, approx. 8.6 km towards SE direction. NH-34, approx,13.3 km towards NE Direction.	

**CO-ORDINATES**

1	Latitude	From 24°36'26.22" N	To 24°36'32.90"N
2	Longitude	From 87°49'19.03"E	To 87°49'25.25"E



LAND DETAILS

Bhuska	Khata no	Plot no
	10	863
	16	865, 866, 867, 871, 872, 873, 874, 875, 876 & 879
	19	864 & 870
	25	877(P) & 878(P)
	26	862, 868(P) & 869(P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1431/M, dated 27.08.2019
2	CO	:	The CO, Pakur vide letter no. 1228, dated 08-08-2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide letter no. 1793/M, Pakur on 16-10-2019 certified that 03 lease area exist within 500 m radius from proposed project site and total lease area is 8.40 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1428, dated 25.07.2019 certified that the Udhwa Lake Bird Sanctuary is 39,350 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Division vide letter no. 756, dated 09.07.2019 certified that the distance of notified forest is 1020 m from proposed project site.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Pakur district.
7	Gram Sabha	:	On 17-07-2019
8	Mine Plan Approval	:	Vide letter no. 416/DDM on 23.09.2019
9	Baseline data	:	December, 2020 to February, 2021 by NABL accridited laboratory.
10	Public Hearing	:	on 27.11.2021

### Working Details

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years- 1.706 ha      Life of Mine - 1.706 ha
3	Waste Generation	:	5 years- 8129 cum
4	Stripping Ratio	:	1: 0.03
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	54 AMSL to 58 AMSL
8	Ground Level Elevation	:	54 AMSL
9	Ultimate Working Depth	:	28 AMSL (26 mbgl)
10	Water Table	:	10 AMSL (max. 44 m bgl)
11	Topography of Mine	:	Area represents a gently sloping land
12	Explosive Requirement	:	45 kg slurry explosive
13	Diesel/Fuel requirement	:	8 liter/day

### Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	168954	56,318	6240	58 mRL - 46 mRL
2 <sup>nd</sup>	168720	56,240	900	58 mRL - 46 mRL
3 <sup>rd</sup>	168741	56,247	00	46 mRL - 34 mRL
4 <sup>th</sup>	168891	56,297	989	58 mRL - 28 mRL
5 <sup>th</sup>	169044	56,348	00	52 mRL - 28 mRL
<b>Total</b>	<b>844350</b>	<b>281,450</b>	<b>8129</b>	

### Land Use

Pattern of Utilization	Existing (Ha)	During plan period (ha)	After Life of mine (ha)
Quarry	Nil	1.706 (including backfilling)	1.706 (including backfilling & reservoir)
Road	0.005	-	-

Safety Zone	0.494	0.494	0.494
<b>Total</b>	<b>0.499</b>	<b>2.200</b>	<b>2.200</b>
Unused Area	1.701	0.000	0.000
Lease hold area	2.200	2.200	2.200

## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.494 ha	1240
2	Haul /Approach Road	:	0.43 km	430

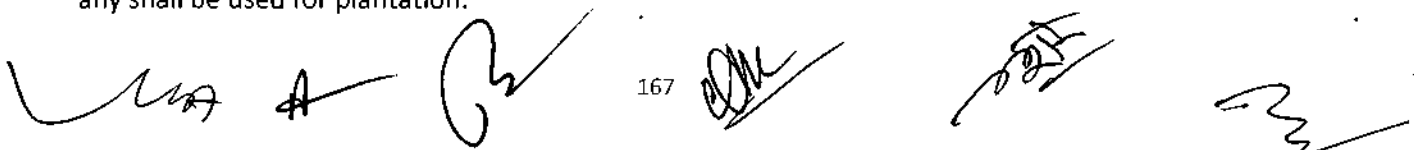
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

### Solid Waste Management

- About 8129 cum waste/rejects is likely to be generated during the plan period. During 1st year of mine development the mined out gritty soil will be temporarily dumped at the NW part of the area & in 5th year will be backfilled in exhausted quarry.

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.



- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

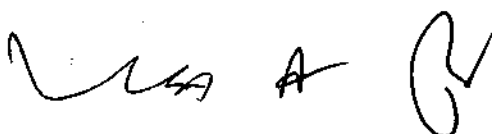
#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bhuska Stone Deposit Project of Sri Piyush Tanwani, Village – Bhuska, Tehsil – Pakur, Dist – Pakur, Jharkhand (2.20 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.





5. Dhab Salaunia Stone Deposit of M/s Jai Sriram Stone Mines, Village : Dhab Salaunia, Thana : Chauparan, Dist. : Hazaribagh, Jharkhand (0.623 Ha).

(Proposal No. SIA/JH/MIN/256005/2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 7,421.0 cu.m/annum or 20,036.70 TPA

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

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Dhab Salaunia Stone Deposit
2	Lessee:	: M/s Jai Sriram Stone Mines Prop. - Shri Kailash Yadav, S/o Late Todi Yadav, Village- Dhab, P.O.–Dhabtham, P.S. – Chandwara, District- Koderma, State – Jharkhand.
3	Lease Address	: Village – Dhab Salaunia, Thana- Chauparan, District – Hazaribagh, State :- Jharkhand.
4	Lease Area	: 0.623 ha Acres- 1.54 Acre
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 15 Lakhs
7	EMP Budget	: Capital: 2.86 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.30 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 37,081 cum Tonnes: 100118.70 tons
11	Mine Life	: 5.0 years
12	Man power	: 22
13	Water Requirement	: 5.50 KLD (Drinking: 0.20 KLD, Dust Suppression: 3.50 KLD, Plantation: 2.0 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: Yes, Crusher comes under mining (area- 0.05 ha)
17	Nearest Water Body	: Margoja Nadi, 3.50 km, WNW direction Tilaiya Reservoir, 1.0 km, SW direction
18	Nearest Habitation	: Dhab Salaunia, 0.60 km
19	Nearest Rail Station	: Urwan Railway station, 6.0 km, ESE direction
20	Nearest Air Port	: Kazi Narul Islam Airport, Durgapur, 115.0 km, S direction
21	Nearest Forest	: Protected Forest near Kan pahari village, Approx. 2.50 km towards NW direction. Protected Forest near Gajure village, Approx. 4.0 km towards East direction.

22	Road & Highways	:	NH-19, Approx. 6.5 km. in SW direction. NH-20, Approx. 5.5 km in SE direction.
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**CO-ORDINATES :**

1	Latitude	From 24°22'48.02" N	To 24°22'51.12" N
2	Longitude	From 85°24'40.34" E	To 85°24'45.45" E

**LAND DETAILS :**

Khata no.	Plot no.
15	19
16	16
18	18
39	17

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Hazaribagh vide letter no. 717/M, dated 26.10.2021
2	CO	:	The CO, Chauparan (Hazaribagh) vide letter no. 666, dated 21.08.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
3	DMO	:	DMO, Hazaribagh vide memo no. 871/M, dated 29.12.2021 certified that one lease (1.24 acre) exist within 500 m radius from proposed project site and total area is less than 5 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2055 dated 23.09.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Hazaribagh East Forest Division vide letter no. 6574 dated 16.11.2019 certified that the distance from the nearest RF/Pf from the project site is more than 250 m.
6	DSR	:	The DC, Hazaribagh vide letter no. 29/M, dated 12.01.2022 has informed that this project is part of District Survey Report (DSR) at Hazaribagh district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 05-10-2019

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8	Mine Plan Approval	:	Vide Memo no. 777/G on 23.11.2021
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### Working Details

1	Mining Method	:	Opencast other than fully mechanized method (OTFM)
2	Quarry Area	:	5 years- 0.303 ha      Life of Mine - 0.303 ha
3	Waste Generation	:	5 years- 3373.0 cu.m
4	Stripping Ratio	:	1: 0.08
5	Working Days	:	300
6	Benches: size & No	:	6m x 10 m
7	Elevation of Mine	:	364 AMSL to 370 AMSL
8	Ground Level Elevation	:	364 AMSL
9	Ultimate Working Depth	:	352 AMSL (12 mbgl)
10	Water Table	:	344 AMSL (20 mbgl)
11	Topography of Mine	:	Area represents a small hillock.
12	Explosive Requirement	:	Class - III (special gelatin )& Class -VI explosive (detonator, electric detonator ) is used
13	Diesel/Fuel requirement	:	6 liter/day

### Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	7419.00	20031.30	1693.0	368.67 mRL - 358 mRL
2 <sup>nd</sup>	7421.00	20036.70	363.0	368.67 mRL - 354 mRL
3 <sup>rd</sup>	7415.10	20020.77	660.0	370.0 mRL - 358 mRL
4 <sup>th</sup>	7411.80	20011.86	132.0	370.0 mRL - 352 mRL
5 <sup>th</sup>	7413.96	20017.69	525.0	368.16 mRL - 352 mRL
<b>Total</b>	<b>37080.86</b>	<b>100118.32</b>	<b>3373.0</b>	

### Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Excavation	Nil	0.303	0.303 (0.275ha area will be left as water

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			reservoir for rain water harvesting and 0.028 ha will be backfilled)
Waste dump	Nil	0.04 (comes under mining)	0.04 (comes under mining)
Road	Nil	0.01 (within quarry)	0.01 (within quarry)
Proposed crusher	Nil	0.050 (comes under mining)	0.050 (comes under mining)
Plantation (Green Belt)	Nil	0.320 (within safety zone)	0.320 (within safety zone)
<b>Unused Area</b>	<b>0.623</b>	<b>0.000</b>	<b>0.000</b>
<b>Total</b>	<b>0.623</b>	<b>0.623</b>	<b>0.623</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.320 ha	800
2	Haul /Approach Road	:	0.25 km	250

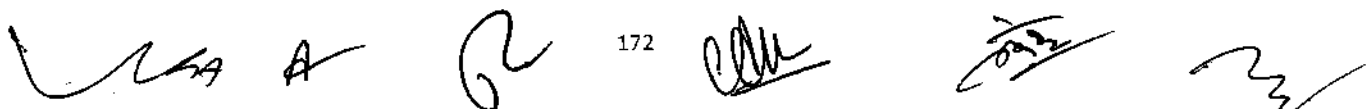
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

### Solid Waste Management

- About 3373.00 cum waste (overburden) will be generated. The OB consist of weathered rock intermixed with soil. The generated waste will be dump temporarily in 1st and 2nd year of mining and 3rd year onwards it will be used for backfilling & rest will be used in maintenance of mine road and village road. (Dump area- 0.04 ha).

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing



discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside

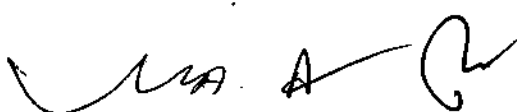
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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



Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Dhab Salaunia Stone Deposit of M/s Jai Sriram Stone Mines, Village : Dhab Salaunia, Thana : Chauparan, Dist. : Hazaribagh, Jharkhand (0.623 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

6. Kusumhei Stone Mine of Smt. Bindwa Devi, Village : Kusumhei, Thana : Markacho, Dist. : Koderma, Jharkhand (0.275 Ha).

(Proposal No. SIA/JH/MIN/256375/2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 1,199.52 cu.m/annum or 3,238.70 TPA

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

This is a existing project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details	
1	Project Name	Kusumhei Stone Mine	
2	Lessee:	Smt. Bindwa Devi, W/O- Sri Rameshwar Yadav, Village – Kusumhei, P.O.-Nawalsahi, District- Koderma, Jharkhand.	
3	Lease Address	Village – Kusumhei, Thana- Markacho, District – Koderma, State :- Jharkhand.	
4	Lease Area	0.275 ha	Acres- 0.680 Acre
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	Rs. 10 Lakhs	
7	EMP Budget	Capital: 1.49 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	Rs. 0.20 Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 11,760 cum	Tonnes: 31,752 tons
11	Mine Life	10.0 years	
12	Man power	16	
13	Water Requirement	4.0 KLD (Drinking: 0.16 KLD, Dust Suppression: 1.64 KLD, Plantation: 1.86 KLD)	
14	Water Source	From Nearby villages by tankers	
15	DG Set / power	-	
16	Crusher	No crusher	
17	Nearest Water Body	Sakri Nadi, Approx. 1.0 km towards SSE direction. Keso Nadi Approx. 3.80 km towards WSW direction.	
18	Nearest Habitation	Kusumhei, 0.30 km	
19	Nearest Rail	Nawalsahi Railway station, approx. 1.2 km toward WNW direction.	

Station		
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, approx. 129.0 km towards S direction.
21	Nearest Forest	: Debipur PF at approx. 2.2 km towards NE direction. Kharauna PF at approx. 3.0 km towards West direction. Karmatanr PF at approx. 1.5 km towards SW direction. Kailakhandhar PF at approx. 4.0 km towards SW direction.
22	Road & Highways	: NH-20, Approx. 19.10 km. in WNW direction. SH-13, Approx. 0.85 km. in North direction.

**CO-ORDINATES :**

1	Latitude	From 24°25'19.48"N	To 24°25'23.21"N
2	Longitude	From 85°46'33.48"E	To 85°46'36.33"E

**LAND DETAILS :**

1	Kusumhei	:	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">PLOT NO.</th> </tr> </thead> <tbody> <tr> <td>1234, 1235, 1244, 1245, 1248, 1263, 1264, 1265, 1266, 1267 &amp;</td> <td>1268</td> </tr> </tbody> </table>	PLOT NO.		1234, 1235, 1244, 1245, 1248, 1263, 1264, 1265, 1266, 1267 &	1268
PLOT NO.							
1234, 1235, 1244, 1245, 1248, 1263, 1264, 1265, 1266, 1267 &	1268						

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The Lease deed has been issued by District Mining Office, Koderma dated 23-04-2010.
2	CO	:	The CO, Domchanch vide letter no. 592, dated 13.07.2017 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyar.
3	DMO	:	DMO, Koderma vide letter no. 1200/M dated 17.12.2021 certified that one lease (8.35 acre) exist within 500 m radius from proposed project site and total area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1972, dated 14.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Koderma Forest Division vide letter no. 2452 dated 19.08.2021 certified that the distance from the nearest RF/Pf from the project site is 520 m.
6	DSR	:	Project name is mentioned in District Survey report (DSR) Koderma

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		district.
7	Gram Sabha	: On 30-11-2021
8	Mine Plan Approval	: Letter no. 47/G dated 10.02.2022

#### Working Details

1	Mining Method	: Open cast Semi - Mechanized Mining method
2	Quarry Area	: 5 years- 0.034 ha      Life of Mine - 0.061 Ha
3	Waste Generation	: 5 years- 122.40 cu.m
4	Stripping Ratio	: 1: 0.007
5	Working Days	: 300
6	Benches: size & No	: 3m x 5m
7	Elevation of Mine	: 369 AMSL to 371 AMSL
8	Ground Level Elevation	: 369 AMSL
9	Ultimate Working Depth	: 355 AMSL (14 mbgl)
10	Water Table	: 353 AMSL (16mbgl)
11	Topography of Mine	: Area represents almost flat terrain.
12	Explosive Requirement	: 69 kg slurry explosive
13	Diesel/Fuel requirement	: 7 liter diesel/day

#### Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	3238.70	1,199.52	24.48	370 mRL - 368 mRL
2 <sup>nd</sup>	3238.70	1,199.52	24.48	370 mRL - 368 mRL
3 <sup>rd</sup>	3238.70	1,199.52	24.48	370 mRL - 368 mRL
4 <sup>th</sup>	3238.70	1,199.52	24.48	370 mRL - 368 mRL
5 <sup>th</sup>	3238.70	1,199.52	24.48	368 mRL - 367 mRL
<b>Total</b>	<b>16,193.50</b>	<b>5,997.60</b>	<b>122.40</b>	

#### Land Use

Pattern of Utilization	Existing (Ha)	Plan Period (Ha)	Conceptual stage (Ha)
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Quarry	0.006	0.034	0.061 (entire area will be converted into water reservoir for rain water harvesting)
Road	0.007	0.007	0.006
Road Barrier	--	--	--
Proposed Dump	--	Nil	Nil
Safety Zone Plantation	Nil	0.208	0.208
Total	0.123	0.249	0.275
Unused Area	0.262	0.026	0.000
Total leasehold area	0.275	0.275	0.275

## ENVIRONMENT MANAGEMENT

### Green Belt Development

S. No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.208 ha	520
2	Haul /Approach Road	:	0.10 km	100

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

### Solid Waste Management

- Waste Generation will be 122.40 cum waste (overburden) during the plan period. The generated waste will be used in making and maintenance of haul road and village road, so there is no requirement of waste dumping plan for this mining plan period.

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.







- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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




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	Body	:	Irga River, Approx. 5.5 km. in E direction.
18	Nearest Habitation	:	Hethli Pradhandih, 0.50 km
19	Nearest Rail Station	:	Dhanwar Railway station, approx. 10.0 km toward N direction.
20	Nearest Air Port	:	Birsa Munda Airport Ranchi, approx. 128 Km towards SSW direction.
21	Nearest Forest	:	PF near Jatadih village at approx 2.5 km towards SW direction. Open jungle mainly sal (PF) at approx. 4.0 km. in SW direction. PF near Langurdiha village at approx. 4.2 km. in SE direction.
22	Road & Highways	:	SH-13, Approx. 13.50 km. in N direction.

**CO-ORDINATES :**

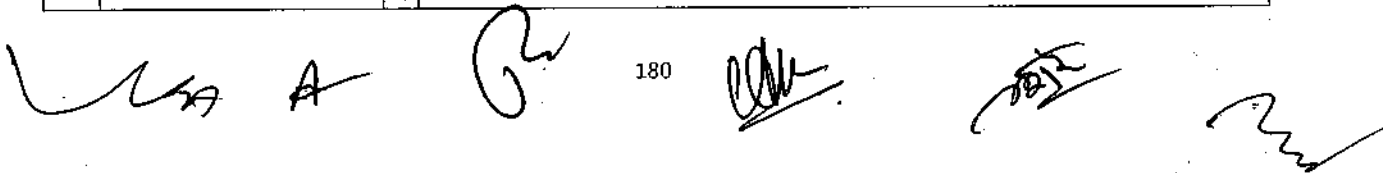
1	Latitude	From 23°54'57.17"N	To 23°55'02.09"N
2	Longitude	From 86°07'29.02"E	To 86°07'35.14"E

**LAND DETAILS :**

1	Hethli Pradhandih	:	<b>KHATA NO.</b>	<b>PLOT NO.</b>
			05	58 (P), 137 (P)
			03	112 (P)
			11	113 (P)
			16	141 (P)

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Giridih Jamshedpur vide letter no. 53/M, dated 21.01.2022.
2	CO	:	The CO, Dhanwar vide letter no. 726, dated 29-09-2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatian.
3	DMO	:	DMO, Giridih vide memo no. 71/M dated 29.01.2022 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2294, dated 21-12-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Giridih West Division vide letter no. 1294 dated 03-11-2021



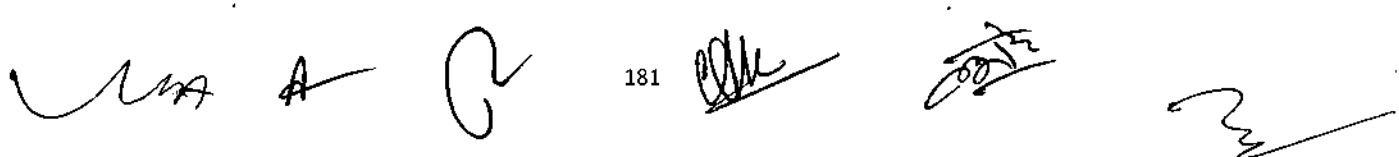
		certified that the distance from the nearest RF/PF from the project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, Giridih vide letter no. 70/M, dated 29.01.2022 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 29-11-2021
8	Mine Plan Approval	: Vide Memo no. 29/G, dated 01-02-2022

#### Working Details

1	Mining Method	: Opencast other than fully mechanized method (OTFM)
2	Quarry Area	: 5 years– 0.470 ha      Life of Mine – 0.470 ha
3	Waste Generation	: 5 years– 5540.00 cu.m
4	Stripping Ratio	: 1: 0.2
5	Working Days	: 300
6	Benches: size & No	: 6m x 10m
7	Elevation of Mine	: 334 AMSL to 338 AMSL
8	Ground Level Elevation	: 334 AMSL
9	Ultimate Working Depth	: 314 AMSL (20 mbgl)
10	Water Table	: 309 AMSL (25 mbgl)
11	Topography of Mine	: Area represents a small hillock
12	Explosive Requirement	: 84 kg slurry explosive
13	Diesel/Fuel requirement	: 10 liter diesel/day

#### Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	33991.65	12589.50	2640.00	338 mRL – 332 mRL
2 <sup>nd</sup>	33991.65	12589.50	275.00	338 mRL – 326 mRL
3 <sup>rd</sup>	33991.65	12589.50	--	332 mRL – 314 mRL


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4 <sup>th</sup>	33993.00	12590.00	2625.00	336 mRL – 314 mRL
5 <sup>th</sup>	33969.37	12581.25	--	332 mRL – 320 mRL
<b>Total</b>	<b>169937.32</b>	<b>62939.75</b>	<b>5540.00</b>	

#### Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	0.470	0.470 (0.049 ha area will be backfilled and after backfilling entire area will be converted into water reservoir)
Road	Nil	Nil	Nil
Proposed Crusher	Nil	0.050 (within mining)	Nil
Safety Zone Plantation	Nil	0.10	0.10
<b>Total</b>	<b>Nil</b>	<b>0.570</b>	<b>0.570</b>
<b>Unused Area</b>	<b>0.570</b>	<b>0.00</b>	<b>0.00</b>
<b>Total leasehold area</b>	<b>0.570</b>	<b>0.570</b>	<b>0.570</b>

#### ENVIRONMENT MANAGEMENT

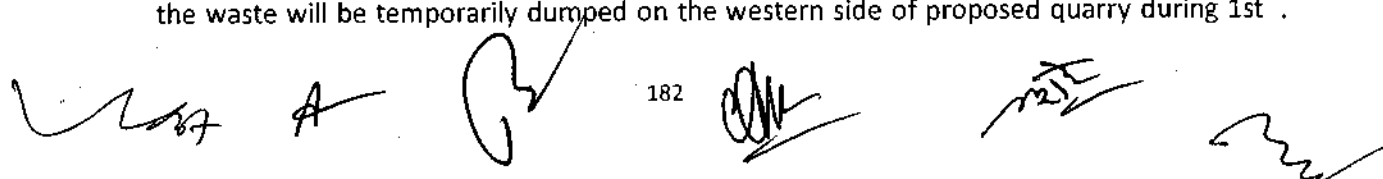
##### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.100 ha	250
2	Haul /Approach Road	:	0.40 km	400

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

##### Solid Waste Management

- Waste Generation will be 5540.0 cum waste (overburden) during the plan period. Part of the waste will be utilized for maintenance & construction of the village road and part of the waste will be temporarily dumped on the western side of proposed quarry during 1st



two years. In 4th year, waste to be generated will be backfilled towards eastern part of the exhausted quarry.

#### **Water Quality Management**


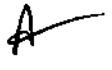

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 11m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall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

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.

- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Hethli Pradhandih Stone Deposit of Shri Mukesh Kumar & Shri Sanjay Kumar Singh, Village : Hethli Pradhandih, Thana : Dhanwar, Tehsil : Dhanwar, Dist. : Giridih, Jharkhand (0.570 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

8. Sundarpahari Stone Deposit of Md. Joshim Ali, Village : Sundarpahari, Thana : Pakur(M), Dist. : Pakur, Jharkhand (1.893 Ha).

(Proposal No. : SIA/JH/ MIN/256034 /2022).

This file was submitted for EC and subsequently withdrawn by the PAs before appraisal by the SEAC.

9. Khaprajola Stone Mine of M/s Mahira Stone Works, Village : Khaprajola, Tehsil : Pakur, Dist. : Pakur, Jharkhand (2.83 Ha).

(Proposal No. : SIA/JH/MIN/72151 /2022).

**Project Category:** B1 – Application for Terms of Reference

**EC Application for:** Proposed Capacity- 38,637 cu.m/annum or 1,08,184 TPA

**Name of the consultant:** P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Khaprajola Stone Mine
2	Lessee:	: M/S Mahira Stone Works (Prop.- Sh. Mejaharul Islam) At village – Jankinagar, Post – Prithvinagar, District- Pakur, Jharkhand.
3	Lease Address	: Village – Khaprajola, Thana No.- 92, P.S.- Malpahari, District – Pakur, State :-Jharkhand.
4	Lease Area	: 2.83 ha Acres- 6.98 Acres



5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 35 Lakhs
7	EMP Budget	:	Capital: 5.65 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.70 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.m.: 4,62,203 cum Tonnes: 12,94,168 tons
11	Mine Life	:	12 years
12	Man power	:	37
13	Water Requirement	:	14.0 KLD (Drinking: 0.37 KLD, Dust Suppression: 6.0 KLD, Plantation: 7.65 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Torai River, 7.0 km, N direction. Bansoli River, 9.5 km, SE direction.
18	Nearest Habitation	:	Khaprajola, 0.70 km
19	Nearest Rail Station	:	Nagarnabi Railway station, approx. 2.0 km
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, Durgapur, West Bengal, approx. 125.0 km.
21	Nearest Forest	:	Protected Forest near Dhangora Pahar, Approx. 8.0 km. in WNW direction. Protected Forest near Dharni Pahar village, Approx. 9.0 km. in WSW direction.
22	Road & Highways	:	NH-114A, Approx. 4.50 km. in North direction. SH-7, Approx. 5.50 km. in SE direction.

#### CO-ORDINATES

1	Latitude	From 24°35'36.72"N	To 24°35'37.94"N
2	Longitude	From 87°50'48.82"E	To 87°50'43.44"E

#### LAND DETAILS :

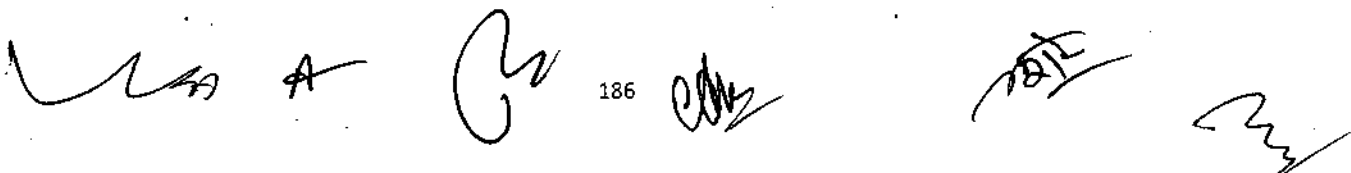
Khata no.	Plot no.
13	818
15	814, 815, 816, 819, 820, 821, 824/P
17	825, 826/P, 827, 828, 829/P & 830/P
20	817, 822, 823

**STATUTORY CLEARANCES**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1812/M dated 29.09.2020.
2	CO	:	The CO, Pakur vide letter no. 169 dated 28-02-2020 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Pakur vide memo no. 2026/M, dated 26-11-2021 certified that there are four other leases (5.42 acre , 8.19 acre, 11.80 acre & 7.94 acre) within 500 m radius and total lease area is 16.32 ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 976, dated 22-05-2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 883, Pakur on 30-05-2020 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	:	Project name is mentioned in District Survey report (DSR) Pakur.
7	Gram Sabha	:	On 26-10-2019
8	Mine Plan Approval	:	Vide Memo no. 244/G dated 07.12.2020

**Working Details**

1	Mining Method	:	Opencast Mechanized Mining method
2	Quarry Area	:	5 years–1.10 ha      Life of Mine – 1.20 ha
3	Waste Generation	:	5 years– 11975.00 cu.m
4	Stripping Ratio	:	1: 0.07
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	47 AMSL to 48 AMSL
8	Ground Level Elevation	:	47 AMSL
9	Ultimate Working Depth	:	23 AMSL (24 mbgl)
10	Water Table	:	15 AMSL (32 mbgl)
11	Topography of Mine	:	Area represents an undulating topography.
12	Explosive Requirement	:	46 kg slurry explosive
13	Diesel/Fuel requirement	:	8 liter/day


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Production Details :

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench Amsl in Meters
1 <sup>st</sup>	107551	38411	4968	47 mRL – 41 mRL
2 <sup>nd</sup>	108041	38586	4095	47 mRL – 41 mRL
3 <sup>rd</sup>	108024	38580	2912	47 mRL – 41 mRL
4 <sup>th</sup>	108184	38637	-	41 mRL – 35 mRL
5 <sup>th</sup>	108058	38592	-	41 mRL – 35 mRL
<b>Total</b>	<b>539858</b>	<b>192806</b>	<b>11975</b>	

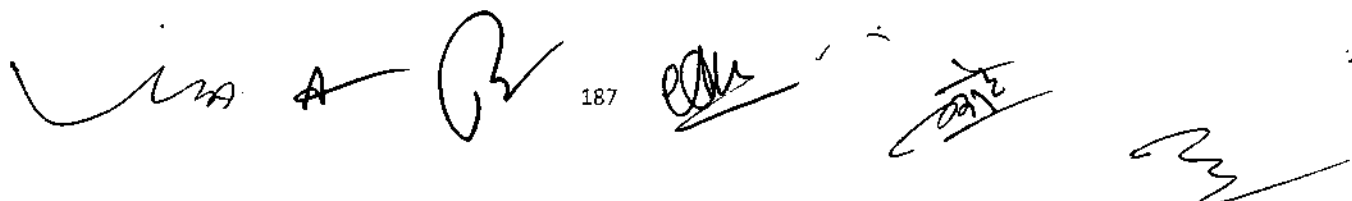
Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.10 (including road)	1.2 ( will be converted in water reservoir)
Proposed Dump with parapet wall & garland drain	Nil	0.01	Nil
Safety Zone Plantation	Nil	0.93	0.93
<b>Total</b>	<b>Nil</b>	<b>2.04</b>	<b>2.13</b>
<b>Unused Area</b>	<b>2.83</b>	<b>0.09</b>	<b>0.70</b>
<b>Total leasehold area</b>	<b>2.83</b>	<b>2.83</b>	<b>2.83</b>

ENVIRONMENT MANAGEMENT

Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.930 ha	2330
2	Haul /Approach Road	: 0.22 km	220


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

#### **Solid Waste Management**

- Waste Generation will be 11,975 cum (dump area- 0.01 ha) during the plan period. During Plan period gritty soil removed will be dumped at western part of the area with suitable precautions like parapet wall and garland drain. Some quantity of this soil will be used for road dressing and plantation.

#### **Water Quality Management**

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 8m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

#### **Air Quality Management**

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

- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

**Undertaking submitted affirming:**

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

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 18, 19, 20, 21, 22, 23, 24, 25&26.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

**10. Kunhara Kalan Stone Deposit of M/s J. C. Stone Works, Village : Kunhara Kalan, Thana : Barkatha, Dist. : Hazaribagh, Jharkhand (1.62 Ha).**

(Proposal No. : SIA/JH/ MIN/255004 /2022).

**Project Category: B2 – Application for Environment Clearance**

**EC Application for: Proposed Capacity- 53,590 cu.m/annum or 1,44,693 TPA**

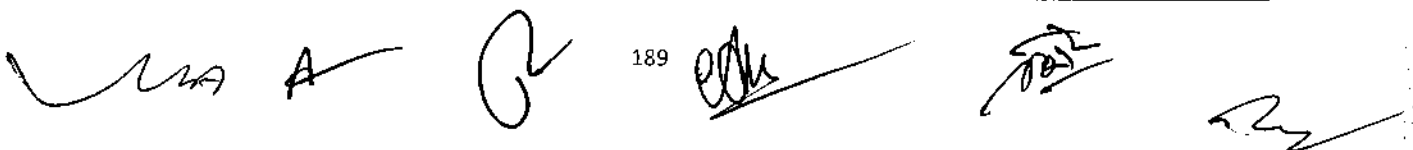
**Name of the consultant: P & M Solution, Noida, UP.**

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Kunhara Kalan Stone Deposit
2	Lessee:	: M/s J.C. Stone Works

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		Prop.- Sh. Ajit Kumar At Village, P.O. and Thana-Nalhati, District- Birbhum, West Bengal.	
3	Lease Address	: Village – Kunhara Kalan, Thana- Barkatha, District – Hazaribagh, State –Jharkhand.	
4	Lease Area	: 1.62 ha	Acres-4.00 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 25 Lakhs	
7	EMP Budget	: Capital: 3.875 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.50Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 2,68,180 cum	Tonnes: 7,24,086 tons
11	Mine Life	: 5.0 years	
12	Man power	: 20	
13	Water Requirement	: 7.5 KLD (Drinking: 0.20KLD, Dust Suppression:4.30 KLD, Plantation:3.0 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No crusher	
17	Nearest Water Body	: Barhoriya Nadi Approx. 1.0 km towards S direction Baradbohi Nadi Approx. 0.5 km towards N direction	
18	Nearest Habitation	: Kunhara Kalan, 0.60 km	
19	Nearest Rail Station	: Sarmatanr Railway station, approx. 20.5 km toward NNE direction	
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, approx. 97.0 km towards S direction.	
21	Nearest Forest	: Fairly dense mixed jungle near Kunhara Kalan village Approx. 0.70 km towards SW direction of mine site. Protected Forest near Jhurjhuri village Approx. 4.0 km towards N direction of mine site.	
22	Road & Highways	: NH-19 Approx. 1.0 km. in NNE direction. NH-20 Approx. 19.5 km. in WNW direction.	

**CO-ORDINATES :**

1	Latitude	From 24°10'08.26" N	To 24°10'14.67" N
2	Longitude	From 85°35'05.40" E	To 85°35'11.01" E

**LAND DETAILS :**

Khata no.	Plot no.
03	935, 952
04	931, 949

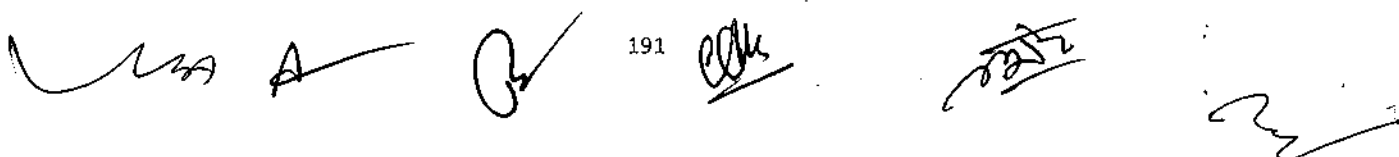
06	1038
07	937, 953
09	936, 954
10	934, 951
22	930, 950
36	1039
37	947
38	925 (P)
40	1035, 1036, 1037
41	923 (P)
48	948
53	945

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Hazaribagh vide letter no. 822/M, dated 11-12-2021.
2	CO	:	The CO, Barkatha vide letter no. 630, dated 29-12-2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
3	DMO	:	DMO, Hazaribagh vide memo no. 833/M dated 16-12-2021 certified that 02 other lease (4.50 acre & 3.145 acre) within 500 m radius from proposed project site and total area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2118, dated 21-12-2021 certified that the National Park, Bio-Diversity & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Hazaribagh West Division vide letter no. 3915 dated 09-11-2021 certified that the distance from the nearest RF/PF from the project site is more than 250 m.
6	DSR	:	Project name is mentioned in District Survey report (DSR) Hazaribagh district.
7	Gram Sabha	:	on 19/09/2021
8	Mine Plan Approval	:	Vide Memo no. 13/G dated 12.01.2022

**Working Details :**

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.16 ha      Life of Mine - 1.16 ha


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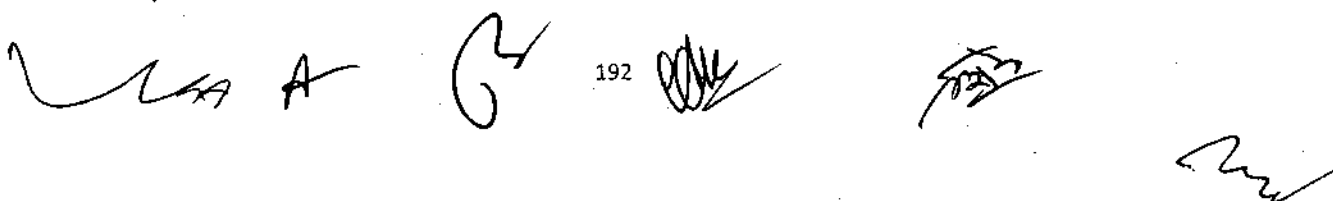
3	Waste Generation	:	5 years-4,225 cu.m
4	Stripping Ratio	:	1: 0.005
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	390AMSL to 388AMSL
8	Ground Level Elevation	:	390 AMSL
9	Ultimate Working Depth	:	360 AMSL (5mbgl)
10	Water Table	:	350 AMSL (15mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	Class – III (special gelatin )& Class –VI explosive (detonator, electric detonator ) is used
13	Diesel/Fuel requirement	:	6 liter/day

**Production Details :**

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	140656.50	52095	4025.00	389 mRL – 378 mRL
2 <sup>nd</sup>	142600.00	57040	-	388 mRL - 372 mRL
3 <sup>rd</sup>	144693.00	53590	-	378 mRL – 372 mRL
4 <sup>th</sup>	144693.00	53590	-	372 mRL - 366 mRL
5 <sup>th</sup>	144693.00	53590	-	372 mRL – 360 mRL
<b>Total</b>	<b>423312</b>	<b>269905</b>	<b>4025.00</b>	

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	0.384	1.160 (0.003 ha road comes under)	1.160 (entire area will be converted into water reservoir)
Road	0.006	0.003	0.003
Safety Zone Plantation	Nil	0.457	0.457
Unused Area	1.230	-	-


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Total	1.620	1.620	1.620
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## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.455ha	1150
2	Haul /Approach Road	:	0.35 km	350

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

### Solid Waste Management

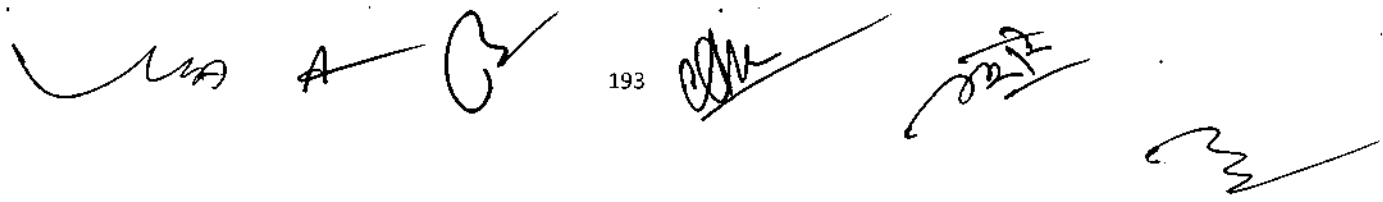
- Waste Generation will be 4025cum during the plan period. During plan period the proposed waste will be dumped at site temporarily & will be used in maintenance of road and backfilling.

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 10m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

### Air Quality Management

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


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

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kunhara Kalan Stone Deposit of M/s J. C. Stone Works, Village : Kunhara Kalan, Thana : Barkatha, Dist. : Hazaribagh, Jharkhand (1.62 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

11. Bara Kanki Stone Deposit of M/s Laxmi Enterprises, Village : Bara Kanki, Thana : Govindpur, Dist. : Saraikela-Kharsawan, Jharkhand (2.79 Ha).

(Proposal No. : SIA/JH/ MIN/255197 /2022).

Project Category: B2 – Application for Environmental Clearance

EC Application for: Proposed Capacity- 38,910.60cum/annum or 1,05,058.60 TPA

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

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Bara Kanki Stone Deposit
2	Lessee:	: M/S Laxmi Enterprises Partner- Sri Vikash Saw S/o Shri. Bhagwan Das Saw Address- Ward no.- 09, Sai Niwas, Rani Sati Mandir Road, Chradharpur, District- West Singhbhum, Jharkhand.
3	Lease Address	: Village – Bara Kanki, Thana- Govindpur, Anchal-Rajnagar, District- Saraikela- Kharsawan, Jharkhand.
4	Lease Area	: 2.79 ha Acres-6.91 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 35 Lakhs
7	EMP Budget	: Capital: 5.04 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.70Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 261666 cum Tonnes: 7,06,498.20 tons
11	Mine Life	: 6.72 years
12	Man power	: 40
13	Water Requirement	: 12.90 KLD (Drinking: 0.40KLD, Dust Suppression:5.14 KLD, Plantation:7.29 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Kharkai River, 2.00km, N direction
18	Nearest Habitation	: Bara Kanki, 0.25 km
19	Nearest Rail Station	: Birbans Railway station, 12.0 km , NNW direction
20	Nearest Air Port	: Birsa Munda Airport, 101.5 km, NW direction
21	Nearest Forest	: Protected Forest near Mundakati Village, approx. 4.0 km, NE side Protected Forest near Tarna Dungri Village, 6.0 km, NW direction
22	Road & Highways	: SH-6 , Approx. 6.10 km, SSE direction

**CO-ORDINATES**

1	Latitude	From 22°41'15.0"N	To 22°41'24.0"N
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2	Longitude	From 86°02'28.0 "E	To 86°02'37.0"E
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**LAND DETAILS :**

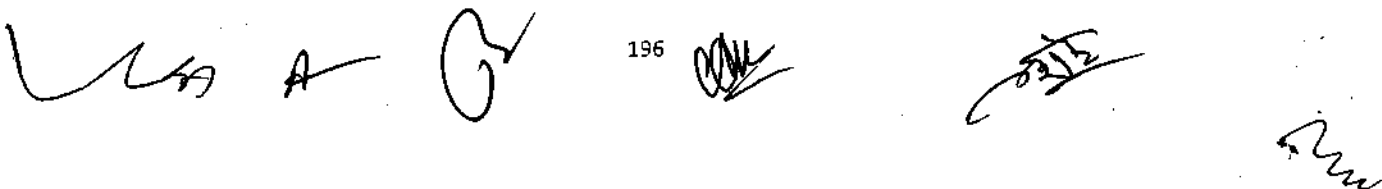
Bara Kanki	Khata no.	Plot no.
	07	11, 12/P, 13, 14 & 15/P

**STATUTORY CLEARANCES**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Saraikela-Kharsawan vide letter no. 220/M, dated 08.04.2021
2	CO	:	The CO, Rajnagar vide letter no. 985, dated 28.12.2020 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in Khatiyen.
3	DMO	:	DMO, Saraikela-Kharsawan vide letter no. 380/M, dated 10.07.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant project vide letter no. 1385, dated 03.09.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Saraikela Forest Division, vide letter no. 179 dated 28.01.2021 certified that the distance of reserved / protected forest from the project site is more than 250 m.
6	DSR	:	The DC, Saraikela-Kharsawan vide letter no 488/M dated 03/09/2021 has informed that this project is part of District Survey Report (DSR) at Saraikela-Kharsawan district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 10-12-2020
8	Mine Plan Approval	:	Vide Memo no. 575/G, Hazaribag dated 11.06.2021

**Working Details**

1	Mining Method	:	Opencast (OTFM) Method
2	Quarry Area	:	5 years-1.518 ha      Life of Mine - 1.846 ha
3	Waste Generation	:	5 years-21612.50 cu.m
4	Stripping Ratio	:	1: 0.04
5	Working Days	:	300



6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 172 AMSL to 162 AMSL
8	Ground Level Elevation	: 162 AMSL
9	Ultimate Working Depth	: 145 AMSL (17 m bgl)
10	Water Table	: 137 AMSL (25 m bgl)
11	Topography of Mine	: The area represents hillock of stone, trend is SE-NW
12	Explosive Requirement	: 105 kg slurry explosive
13	Diesel/Fuel requirement	: 8 liter diesel/day

**Production Details (plan period)**

Year	Production of Stone in Tonnes	Production of Stone in Cum	Total Waste (cum)
1st	105024.60	38898.00	4322.00
2nd	105027.03	38898.90	4322.10
3rd	105058.60	38910.60	4323.40
4th	105053.80	38908.80	4323.20
5th	105019.70	38896.20	4321.80
<b>Total</b>	<b>525183.73</b>	<b>194512.50</b>	<b>21612.50</b>

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Excavation	Nil	1.518	1.846 (Entire area will be converted into water reservoir)
Proposed Dump	Nil	Nil	Nil
Safety Zone Plantation	Nil	0.944	0.944
<b>Total</b>	<b>Nil</b>	<b>2.462</b>	<b>2.79</b>
<b>Unused Area</b>	<b>2.79</b>	<b>0.328</b>	<b>0.000</b>

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

S.No.	Location	Area/Length	No. of Trees

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1	Safety Zone	:	0.944 ha	2360
2	Approach Road	:	0.07 km	70

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

#### **Solid Waste Management**

- Waste Generation will be 21612.50 cum (dump area- 0.0 ha in plan period) during the plan period. It is proposed that part of the waste will be utilized for maintenance of village road and making of approach road, haul road, etc.

#### **Water Quality Management**

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 8m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### **Air Quality Management**

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

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- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bara Kanki Stone Deposit of M/s Laxmi Enterprises, Village : Bara Kanki, Thana : Govindpur, Dist. : Saraikela-Kharsawan, Jharkhand (2.79 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

12. Aguidangra Brick Earth Deposit of M/s Kanak Bricks, Village : Aguidangra, Thana : Patamda, Thana no. : 82 (339), Dist. : East Singhbhum, Jharkhand (1.65 Ha).

(Proposal No. : SIA/JH /MIN/242413 /2021).



**Project Category:** B2 – Application for Environment Clearance


**EC Application for:** Production capacity: 1200.00 cum/season or 1560 T/season of brick earth clay

**Name of the consultant:** P & M Solution, Noida

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**







Sl	Parameter	Details	
1	Project Name	: Aguidangra Brick Earth Deposit	
2	Lessee:	: M/s Kanak Bricks Prop.-Smt. Uma Devi W/O- Shri Pawan Kumar H.No.-03, Sarboday Path, Nearest Land Mark, Suman Hotel, Dimna Road, P.O-Mango, P.S.-Ulidih Town, Jamshedpur, Dist-East Singhbhum, Jharkhand	
3	Lease Address	: Village: Aguidangra, Thana.- Patamda, District- East Singhbhum, Jharkhand	
4	Lease Area	: Ha:1.65 ha	Acres:4.09 Acre
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 20 Lakhs	
7	EMP Budget	: Capital: 3.08Lakhs	Recurring: 2.82Lakh / year
8	CSR / CER Budget	: Rs. 0.40 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 22780.00 Cu. M.	Tonnes:29614.00 MT
11	Mine Life	: 18.98 or 19 Seasons	
12	Man power	: 11	
13	Water Requirement	: 7.50 KLD (Drinking:0.11 KLD, Dust Suppression:3.30 KLD, Plantation:4.05KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No Crusher	
17	Nearest Water Body	: Sona Nadi, Approx. 1.20 km, W Side Subarnareka River, Approx. 18.50 km, SW Side Dimna Reservoir, Approx. 17.00 km, SW Side	
18	Nearest Habitation	: Aguidangra, 0.50km	
19	Nearest Rail Station	: Biramdih Railway Station, approx. 22.5 km, NW Side	
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, approx. 116.0 km, WNW side	
21	Nearest Forest	: Mathurapur Protected Forest , Approx. 3.1 km, SE direction Kherua Protected Forest , Approx. 6.0 km SW direction Lailam Protected Forest , Approx. 6.0 km SW direction	
22	Road & Highways	: SH- 5, approx., 14.20 km towards ESE direction NH-116B, approx, 10.10 km towards N direction	

#### CO-ORDINATES

1	Latitude	From 22°56'04.41"N	To 22°56'12.99"N
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2	Longitude	From 86°22'51.11"E	To 86°22'56.16"E
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#### LAND DETAILS

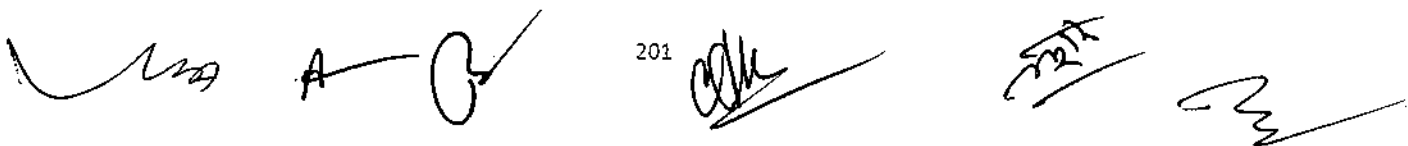
		Khata no	Plot no
1	Aguidangra	62	756 & 1219
		63	748

#### STATUTORY CLEARANCES

1	LOI/Lease docs	: The land argeement has been made on 04.10.2021.
2	CO	: The CO, Patamda, East Singhbhum vide letter no. 771, dated 22/10/2021 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	: DMO, East Singhbhum vide letter no. 107/M dated 21.01.2021 certified that no lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1670 dated 02/11/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Jamshedpur Forest Division vide letter no. 2892, dated 08/11/2021 certified that the distance from the Nearest Reserved Forest / Protected Forest from the project site is more than 250 m.
6	DSR	: The Project is mentioned in District Survey Report (DSR), East Singhbhum District.
7	Gram Sabha	: On 24-11-2018
8	Mine Plan Approval	: Vide letter no. 256/G dated 11/12/2020

#### Working Details

1	Mining Method	: Open Cast manual method	
2	Quarry Area	: 5 years-0.437ha	Life of Mine - 1.175ha
3	Waste Generation	: 5 years-Nil	Life of Mine - Nil
4	Stripping Ratio	: 1: 0.0	
5	Working Days	: 150	
6	Benches: size & No	: 1m x 1m	
7	Elevation of Mine	: 254 AMSL to 260AMSL	
8	Ground Level Elevation	: 254 AMSL	


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9	Ultimate Working Depth	:	252AMSL (2 bg!)
10	Water Table	:	244 AMSL (10 bg!)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	Not applicable
13	Diesel/Fuel requirement	:	3 litre/day

### Production Details

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.3
1 <sup>st</sup>	1200.00	600000	1560.00
2 <sup>nd</sup>	1200.00	600000	1560.00
3 <sup>rd</sup>	1200.00	600000	1560.00
4 <sup>th</sup>	1200.00	600000	1560.00
5 <sup>th</sup>	1200.00	600000	1560.00
<b>Total</b>	<b>6000.00</b>	<b>3000000</b>	<b>7800.00</b>

### Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarrying	0.092	0.437	1.175 (1.175 area shall be reclaimed as cultivated land and handed over to the concern raiyat)
Storage of casted bricks	Nil	Storage of casted bricks within quarry	Storage of casted bricks within quarry
Plantation at safety zone	Nil	0.478	0.478
Kiln	Nil	0.182	Nil
Mine Road	Nil	0.002	0.002
<b>Total</b>	<b>0.092</b>	<b>1.099</b>	<b>1.655</b>

Unused Area	1.558	0.551	0.000
Total Area	1.65	1.65	1.655

## ENVIRONMENT MANAGEMENT

### Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.478ha	1200
2	Haul /Approach Road	: 0.045 km	150

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

### Solid Waste Management






- Nil

### Water Quality Management

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

### Air Quality Management

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



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

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Aguidangra Brick Earth Deposit of M/s Kanak Bricks, Village : Aguidangra, Thana : Patamda, Thana no. : 82 (339), Dist. : East Singhbhum, Jharkhand (1.65 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - 1.

**13. Mahulpahari Stone Deposit of M/s Golabur Stone , Village : Mahulpahari, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.865 Ha).**

**(Proposal No. : SIA/JH/ MIN/255809/2022).**

**Project Category: B2 – Application for Environment Clearance**

EC Application for: Proposed Capacity- 28,954.03 cu.m/annum or 83,995.68 TPA

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

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Mahulpahri Stone Deposit
2	Lessee:	: M/S Golabur Stone Prop.- Sri Golabur Rahaman, S/o Sri Madeswar Hussain At village – Nayani Gangadda, P.O – Khanpur, P.S – Murarai, District- Birbhum, West Bengal.
3	Lease Address	: Village – Mahulpahri, Thana- Maheshpur, District – Pakur, State :- Jharkhand.
4	Lease Area	: 2.865 ha Acres- 7.08 Acre
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 35 Lakhs
7	EMP Budget	: Capital: 3.0 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.70 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 290,225.95 cum Tonnes: 8,41,655.26 tons
11	Mine Life	: 10.00 years
12	Man power	: 31
13	Water Requirement	: 9.0 KLD (Drinking: 0.31 KLD, Dust Suppression: 5.19 KLD, Plantation: 3.48 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Baru Nadi Approx. 8.50 km towards WSW direction. Tripita Nadi Approx. 7.0 km towards SW direction..
18	Nearest Habitation	: Mahulpahri, 0.30 km
19	Nearest Rail Station	: Chatra Railway station, approx. 9.0 km toward East direction.
20	Nearest Air Port	: Kazi Nazrul Islam Airport, approx. 100.0 km towards SW direction.
21	Nearest Forest	: Protected Forest near Mohanpur Village at approx 9.50 km towards S direction. Open Eucalyptus jungle RF at 9.20 km towards S direction.
22	Road & Highways	: SH-7, Approx. 9.0 km. in East direction. NH-14, Approx. 12.0 km. in SE direction.

**CO-ORDINATES :**

1	Latitude	From 24°21'56.7356"N	To 24°22'06.1062"N
2	Longitude	From 87°45'19.7758"E	To 87°45'30.4731"E

**LAND DETAILS :**

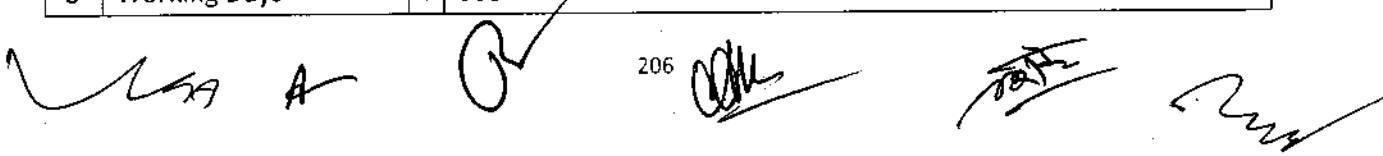
Khata no.	Plot no.
17	571, 574
18	563, 564, 569, 570, 572, 573

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 1381/M, dated 20-08-2019.
2	CO	: The CO, Maheshpur vide letter no. 352, dated 04-06-2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	: DMO, Pakur vide memo no. 1927/M dated 03.11.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO wildlife Hazaribagh vide letter no. 1305, dated 08-07-2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division vide letter no. 667 dated 16-06-2019 certified that the distance of notified forest from the project site is more than 250 m.
6	DSR	: The Project is mentioned in District Survey Report (DSR), Pakur District.
7	Gram Sabha	: On 10-07-2019
8	Mine Plan Approval	: Vide Memo no. 399/DDM dated 13.09.2019

**Working Details**

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years- 1.691 ha      Life of Mine - 2.509 Ha
3	Waste Generation	: 5 years- 7618.10 cu.m
4	Stripping Ratio	: 1: 0.01
5	Working Days	: 300



6	Benchies: size & No	:	5m x 5m
7	Elevation of Mine	:	57 AMSL to 63 AMSL
8	Ground Level Elevation	:	54 AMSL
9	Ultimate Working Depth	:	45 AMSL (9 mbgl)
10	Water Table	:	42 AMSL (15mbgl)
11	Topography of Mine	:	Area represents a undulating hills
12	Explosive Requirement	:	42 kg slurry explosive
13	Diesel/Fuel requirement	:	10 liter/day

**Production Details :**

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	83995.68	28,964.03	1524.42	51 mRL
2 <sup>nd</sup>	83905.18	28,932.82	1522.78	51 mRL
3 <sup>rd</sup>	83903.53	28,932.25	1522.75	51 mRL – 45 mRL
4 <sup>th</sup>	83986.18	28,960.75	1524.25	45 mRL
5 <sup>th</sup>	83966.89	28,954.10	1523.90	45 mRL
<b>Total</b>	<b>419757.45</b>	<b>144,743.95</b>	<b>7618.10</b>	

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	1.467	1.691	2.509 (0.113 ha area shall be backfilled & entire area after backfilling will be converted into water reservoir)
Road	0.044	0.013	0.001
Proposed Dump	Nil	0.357	Nil
Safety Zone Plantation	Nil	0.355	0.355
<b>Total</b>	<b>1.511</b>	<b>2.416</b>	<b>2.865</b>
<b>Unused Area</b>	<b>1.354</b>	<b>0.449</b>	<b>0.000</b>
<b>Total leasehold area</b>	<b>2.865</b>	<b>2.865</b>	<b>2.865</b>

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## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.355 ha	890
2	Haul /Approach Road	:	0.27 km	270

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

### Solid Waste Management

- Waste Generation will be 7618.10 cum waste (intercalated waste) during the plan period. The generated waste will be dump temporarily in the lease area & will be used for backfilling and road dressing in plan and conceptual periods. (Dump area- 0.357 ha).

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

### Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission



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

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Mahulpahari Stone Deposit of M/s Golabur Stone , Village : Mahulpahari, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.865 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

**14. Chhota Lakha Stone Deposit of Shri Arun Kumar Tudu, Village : Chhota Lakha, Thana : Chandil, Dist. : Saraikela Kharsawan, Jharkhand (1.214 Ha).**

(Proposal No. : SIA/JH/MIN/253240 /2022).

**Project Category: B2 – Application for Environment Clearance**

**EC Application for: Proposed Capacity- 14000.13 cu.m/annum or 35000.34 TPA**

**Name of the consultant: P & M Solution, Noida, UP.**



**STATUTORY CLEARANCES**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Saraikela Kharsawan vide letter no. 605/M , dated 02.11.2021
2	CO	:	The CO, Chandil vide letter no. 627, dated 04.06.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.
3	DMO	:	DMO, Pakur vide letter no. 21/M, dated 07.01.2022 certified that no lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	Deputy Conservator of Forest & Field Director, Elephant Project Jamshedpur vide letter no. 1605, dated 22.10.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Saraikela-Kharsawan Forest Division vide letter no. 452 dated 02.03.2021 certified that the distance from the nearest Reserved Forest / Protected Forest from the project site is more than 250 m.
6	DSR	:	The DC, Saraikela Kharsawan vide letter no 718/M dated 22/12/2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 23.09.2020
8	Mine Plan Approval	:	Vide Memo no. 762/G dated 16.11.2021

**Working Details :**

1	Mining Method	:	Opencast (OTFM) Method
2	Quarry Area	:	5 years- 0.954 ha      Life of Mine - 5.00 Year
3	Waste Generation	:	5 years- 19498.67 cu.m
4	Stripping Ratio	:	1: 0.10
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	160 AMSL to 163 AMSL
8	Ground Level Elevation	:	160 AMSL
9	Ultimate Working Depth	:	150 AMSL (10 mbgl)
10	Water Table	:	145 AMSL (15 mbgl)
11	Topography of Mine	:	Area represents a undulating topography
12	Explosive Requirement	:	72 kg slurry explosive

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13	Diesel/Fuel requirement	:	7 liter/day
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### Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	34998.75	13999.50	3545.50	163 mRL - 156 mRL
2 <sup>nd</sup>	35000.34	14000.10	2470.61	156 mRL - 150 mRL
3 <sup>rd</sup>	35000.34	14000.13	5220.61	160 mRL - 150 mRL
4 <sup>th</sup>	34998.75	13999.50	3545.50	161 mRL - 156 mRL
5 <sup>th</sup>	34941.37	13976.55	4716.45	161 mRL - 150 mRL
<b>Total</b>	<b>174939.55</b>	<b>69975.78</b>	<b>19498.67</b>	

### Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Excavation / old pit	0.188	0.954	0.954 (will be converted in to water reservoir)
Waste dump	Nil	0.138 (within quarry)	Nil
Road	0.005	Nil	Nil
Proposed crusher	Nil	0.05	0.05
Plantation (green belt)	Nil	0.21	0.21
<b>Total</b>	<b>0.193</b>	<b>1.214</b>	<b>1.214</b>

### ENVIRONMENT MANAGEMENT

#### Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	0.21 ha	530
2	Haul /Approach Road	0.10 km	600

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

### **Solid Waste Management**


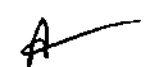

There will be total 19498.67 cum waste shall be generated during the plan period. Part of the waste in 1<sup>st</sup> two years shall be temporarily dumped in southern direction of the lease area. During 1<sup>st</sup> and 2<sup>nd</sup> year dump shall be backfilled with 5<sup>th</sup> year excavation which will also be reclaimed by backfilling.

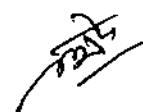
### **Water Quality Management**

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

### **Air Quality Management**

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




- Ambient air pollution monitoring shall be carried out every six months

**Undertaking submitted affirming :**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Chhota Lakha Stone Deposit of Shri Arun Kumar Tudu, Village : Chhota Lakha, Thana : Chandil, Dist. : Saraikela Kharsawan, Jharkhand (1.214 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

**15. Nachibera Brick Earth Deposit of M/s Maa Bricks (Prop. : Sh. Rajib Lochan Mandal), Village : Nachibera, Thana : Patamda, Thana no. : 131, Dist. : East Singhbhum, Jharkhand (1.88 Ha):**

(Proposal No. : SIA/JH/MIN/244784 /2021).

**Project Category: B2 – Application for Environment Clearance**

**EC Application for: Production capacity: 1200.00 cum/season or 1560 T/season of brick earth clay**

**Name of the consultant: P & M Solution, Noida**

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Nachibera Brick Earth Deposit
2	Lessee:	: M/s MAA Bricks Prop.-Sh. Rajib Lochan Mandal

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		S/O Shri Bhupal Mandal Village- Supudih, Tola- Kodogora, P.S.-Bandwan, Dist-Purulia, WB. Pincode-723129	
3	Lease Address	: Village: Nachibera, Thana.- Patamda, District- East Singhbhum, Jharkhand	
4	Lease Area	: Ha:1.88 ha	Acres:4.66 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 20 Lakhs	
7	EMP Budget	: Capital: 3.58 Lakhs	Recurring: 2.82Lakh / year
8	CSR / CER Budget	: Rs. 0.40 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 27505.00 Cu. M.	Tonnes:35756.50 MT
11	Mine Life	: 22.92 or 23.00 Seasons	
12	Man power	: 11	
13	Water Requirement	: 9.00 KLD (Drinking:0.11 KLD, Dust Suppression:3.62 KLD, Plantation:5.25 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No Crusher	
17	Nearest Water Body	: Sona Nadi, Approx. 9.00 km, WNW Side Subarnareka River, Approx. 18.00 km, SW Side Dimna Reservoir, Approx. 17.00 km, SW Side	
18	Nearest Habitation	: Nachibera, 0.50km	
19	Nearest Rail Station	: Asanboni Railway Station, approx. 23.20 km, SSW Side	
20	Nearest Air Port	: Birsa Munda Airport, Ranchi, approx. 123.50 km, WNW side	
21	Nearest Forest	: Mathurapur Protected Forest , Approx. 4.0 km NW direction Patamda Protected Forest , Approx. 4.0 km WSW direction Elephant Corridor, Approx. 5.50 km SE direction	
22	Road & Highways	: SH- 5, approx., 7.0 km towards E direction NH-18, approx, 15.40 km towards SW direction	

**CO-ORDINATES :**

1	Latitude	From 22°53'02.00"N	To 22°53'08.63"N
2	Longitude	From 86°26'09.79"E	To 86°26'15.11"E

**LAND DETAILS :**

Nachibera	Khata No.	Plot no.
	44	438, 386 & 389

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**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The land argeement has been made on 05.10.2018.
2	CO	:	The CO, Patamda vide letter no. 89, dated 26/02/2019 has mentioned the plot of the project is not recorded as "Jangle Jhari" in Khatiyar.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide letter no. 1365/M dated 02.11.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1597 dated 11/10/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO Jamshedpur Forest Division vide letter no. 3177, dated 08/12/2020 certified that the distance of reserved / protected forest from the Project site is more than 250 m.
6	DSR	:	The DC-cum-District Magistrate, East Singhbhum, Jamshedpur vide letter no. 1499, dated 06.12.2021 has informed that this project is part of District Survey Report (DSR) at East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 06-01-2019
8	Mine Plan Approval	:	Vide letter no. 334/G dated 06/01/2021

**Working Details**

1	Mining Method	:	Open Cast manual method
2	Quarry Area	:	5 years-0.300 ha      Life of Mine - 0.980 ha
3	Waste Generation	:	5 years-Nil      Life of Mine - Nil
4	Stripping Ratio	:	1: 0.0
5	Working Days	:	150
6	Benches: size & No	:	1m x 1m
7	Elevation of Mine	:	222 AMSL to 228 AMSL
8	Ground Level Elevation	:	222 AMSL
9	Ultimate Working Depth	:	220 AMSL (2 bgl)
10	Water Table	:	212 AMSL (10 bgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	Not applicable



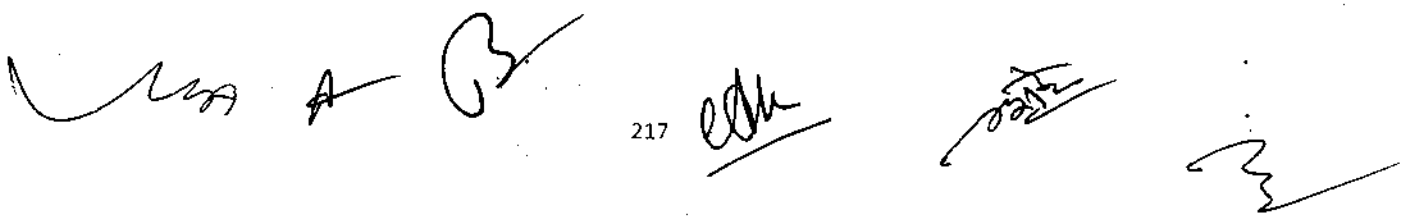



13	Diesel/Fuel requirement	:	3 litre/day
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**Production details :**

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.3
1 <sup>st</sup>	1200.00	600000	1560.00
2 <sup>nd</sup>	1200.00	600000	1560.00
3 <sup>rd</sup>	1200.00	600000	1560.00
4 <sup>th</sup>	1200.00	600000	1560.00
5 <sup>th</sup>	1200.00	600000	1560.00
<b>Total</b>	<b>6000.00</b>	<b>3000000</b>	<b>7800.00</b>

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarrying	Nil	0.300	0.980 (area shall be reclaimed as cultivated land and handed over to the concern raiyat)
Infrastructure	0.04	0.04	0.04
Storage of casted bricks	Nil	Storage of casted bricks within quarry	Storage of casted bricks within quarry
Plantation at safety zone	Nil	0.220	0.687
Proposed Kiln	Nil	0.173	0.173
Mine Road	Nil	0.005	-
<b>Total</b>	<b>0.04</b>	<b>0.738</b>	<b>1.88</b>
<b>Unused Area</b>	<b>1.84</b>	<b>1.142</b>	<b>0.000</b>
<b>Total Area</b>	<b>1.88</b>	<b>1.88</b>	<b>1.88</b>


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## ENVIRONMENT MANAGEMENT

### Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0. 220 ha	1720
2	Haul /Approach Road	:	0.03 km	30

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

### Solid Waste Management

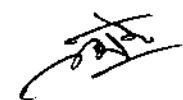

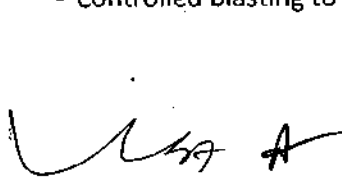
- Nil

### Water Quality Management

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

### Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission



- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask etc shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC O.M dated 12.12.18 decided that the proposal for Nachibera Brick Earth Deposit of M/s Maa Bricks (Prop. : Sh. Rajib Lochan Mandal), Village : Nachibera, Thana : Patamda, Thana no. : 131, Dist. : East Singhbhum, Jharkhand (1.88 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.



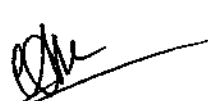
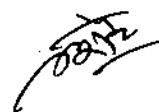
16. Hathigarh Stone Mine of Sri Imran Ali, Village : Hathigarh, Anchal : Littipara, Thana no. : 3, Dist. : Pakur, Jharkhand (2.368 Ha)

(Proposal No. : SIA/JH/MIN/70183/2021).

Project Category: B1 – Application for Terms of Reference

EC Application for: Proposed Capacity-35028.00 cu.m/annum or 98078.0 TPA

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


This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details	
1	Project Name	: Hathigarh Stone Deposit	
2	Lessee:	: Shri Imran Ali S/O Shri Samad Ali Address- Gram-Koriadih, P.O.- Hiranpur, District- Pakur, State - Jharkhand.	
3	Lease Address	: Village - Hathigarh, Anchal- Littipara, District - Pakur, State - Jharkhand.	
4	Lease Area	: 2.368 ha	Acres-5.85 Acres
5	Type of Land	: Non Forest - Raiyati Land	
6	Project Cost	: Rs. 30 Lakhs	
7	EMP Budget	: Capital: 3.53 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.60Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 428080 cum	Tonnes: 1198624 tons
11	Mine Life	: 10 years 5 months	
12	Man power	: 41	
13	Water Requirement	: 10.30 KLD (Drinking: 0.41KLD, Dust Suppression:4.75 KLD, Plantation:5.1 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No crusher	
17	Nearest Water Body	: Torai River, 4.80km, S direction	
18	Nearest Habitation	: Chaukidhab, 0.5km	
19	Nearest Rail Station	: Kotalpukur Railway station, 11.20 km	
20	Nearest Air Port	: Kazi Nazrul Islam Airport, 132.20 km	
21	Nearest Forest	: Protected Forest near Guma Pahar Village, approx. 5.50 km, NW side Protected Forest near Chhota Kendua Village, 1.5 km, ENE side	
22	Road & Highways	: NH-114A , Approx. 0.05 km	

**CO-ORDINATES**

1	Latitude	From 24°43'42.62"N	To 24°43'51.75"N
2	Longitude	From 87°42'45.47"E	To 87°42'52.22"E

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**LAND DETAILS**

Khata no.	Plot no.
62	938/P, 943, 944
71	960
79	961, 963
21	962

**STATUTORY CLEARANCES**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 777/M, dated 16-06-2021
2	CO	:	The CO, Littipara vide letter no. 376, dated 06.09.2019 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide letter no. 1711/M, dated 27.09.2021 certified that 04 other lease (2.50 acre, 5.86 acre, 7.52 acre & 3.00 acre) exist within 500 m radius from proposed project site and total area is 10 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1026, dated 23.06.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 524 dated 12.03.2021 certified that the distance of Reserved Forest / Protected Forest from the project site is more than 250 m.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no 1412/M dated 12/08/2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 12-09-2019
8	Mine Plan Approval	:	Vide Memo no. 1824/M dated 21.10.2021

**Working Details :**

1	Mining Method	:	Opencast Mechanized Mining method
2	Quarry Area	:	5 years-1.68 ha
			Life of Mine - 10 Years 5 months
3	Waste Generation	:	5 years-7086.0 cu.m
4	Stripping Ratio	:	1: 0.11
5	Working Days	:	300

6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	74 AMSL to 56 AMSL
8	Ground Level Elevation	:	147AMSL
9	Ultimate Working Depth	:	56 AMSL (18 m bgl)
10	Water Table	:	48 AMSL (26 m bgl)
11	Topography of Mine	:	Area represents an almost flat land with two hillocks
12	Explosive Requirement	:	50 kg slurry explosive
13	Diesel/Fuel requirement	:	8 liter/day

### Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench Amsl in Meters
1 <sup>st</sup>	97888.00	34960.00	3961.00	74mRL - 68mRL
2 <sup>nd</sup>	97961.00	34986.00	3125.00	74 mRL - 68 mRL
3 <sup>rd</sup>	98067.00	35024.00	Nil	68mRL - 62mRL
4 <sup>th</sup>	98078.00	35028.00	Nil	68mRL - 62mRL
5 <sup>th</sup>	97902.00	34965.00	Nil	68mRL - 56mRL
<b>Total</b>	<b>489896.00</b>	<b>174963.00</b>	<b>7086.00</b>	

### Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	-	0.85	1.68 ha (Entire area will be converted into water reservoir)
Haul Road	-	0.03	0.02
Proposed Crusher	-	-	-
Green belt in Safety Barrier	-	0.66	0.66
Dump with Parapet Wall & Garland Drain	-	0.23	Nil (Waste dump to be removed and backfilled)
<b>Total Area in use</b>	-	<b>1.77</b>	<b>2.36</b>
Balance Unused Area	2.368	0.598	0.008
<b>Total Applied Area</b>	<b>2.368</b>	<b>2.368</b>	<b>2.368</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.66 ha	1650
2	Haul /Approach Road	:	0.05 km	50

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

#### Solid Waste Management

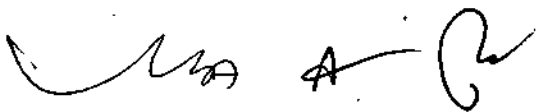
- Waste Generation will be 7086.0 cum (dump area- 0.23 ha) during the plan period. During plan period the proposed waste shall be temporarily dumped at site and used for maintenance of road.

#### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 8m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

#### Air Quality Management

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



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

**Undertaking submitted affirming :**

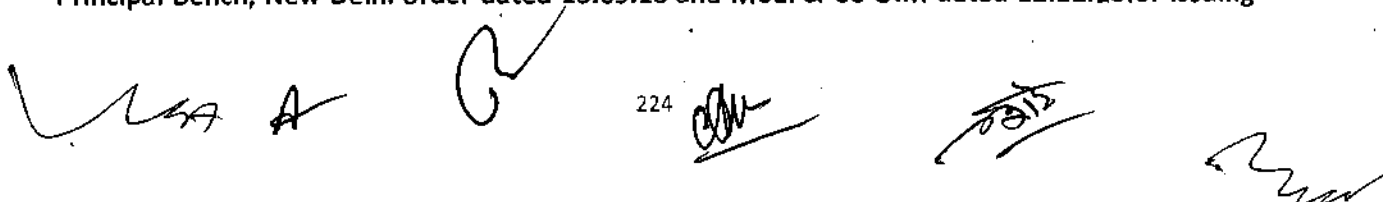
- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are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

The consultant declared that baseline data collection has been done during the period October, 2021 to December, 2021 and also requested to make a common EIA for the 02 projects i.e. Hathigarh Stone Mine of Sri Imran Ali, Village : Hathigarh, Anchal : Littipara, Thana no. : 3, Dist. : Pakur, Jharkhand (2.368 Ha).

&

Hathigarh Stone Mine of Sri Ajijul Islam, Village : Hathigarh, Anchal : Littipara, Thana no. : 3, Dist. : Pakur, Jharkhand (2.814 Ha).

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 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing





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

17. Hathigarh Stone Mine of Sri Ajizul Islam, Village : Hathigarh, Anchal : Littipara, Thana no. : 3, Dist. : Pakur, Jharkhand (2.814 Ha).

(Proposal No. : SIA/JH/ MIN/69563 /2021).

Project Category: B1 – Application for Terms of Reference

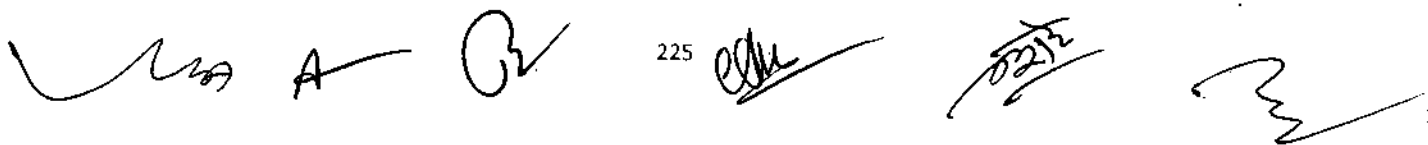
EC Application for: Proposed Capacity- 43,272 cum/annum or 1,21,162 TPA

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

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details	
1	Project Name	: Hathigarh Stone Deposit	
2	Lessee:	: Shri Azizul Islam S/o Late Khan Mohammad Address- Gram- Kamalghati, P.O.- Hiranpur, District- Pakur, State – Jharkhand.	
3	Lease Address	: Village – Hathigarh, Anchal- Littipara, District – Pakur, State – Jharkhand.	
4	Lease Area	: 2.814 ha	Acres-6.95 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 35 Lakhs	
7	EMP Budget	: Capital: 4.84 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.70Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 475603 cum	Tonnes: 1331688 tons
11	Mine Life	: 11 years	
12	Man power	: 41	
13	Water Requirement	: 12.80 KLD (Drinking: 0.41KLD, Dust Suppression:6.40 KLD, Plantation:5.94 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No crusher	
17	Nearest Water Body	: Torai River, 4.80km, S direction	
18	Nearest Habitation	: Hathigarh, 0.3 km	
19	Nearest Rail Station	: Kotalpukur Railway station, 11.80 km , E direction	
20	Nearest Air Port	: Kazi Nazrul Islam Airport, 131.80 km, S direction	


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21	Nearest Forest	:	Protected Forest near Guma Pahar Village, approx. 5.50 km, NW side Protected Forest near Chhota Kendua Village, 1.5 km, ENE side
22	Road & Highways	:	NH-114A , Approx. 0.30 km, ESE direction

**CO-ORDINATES :**

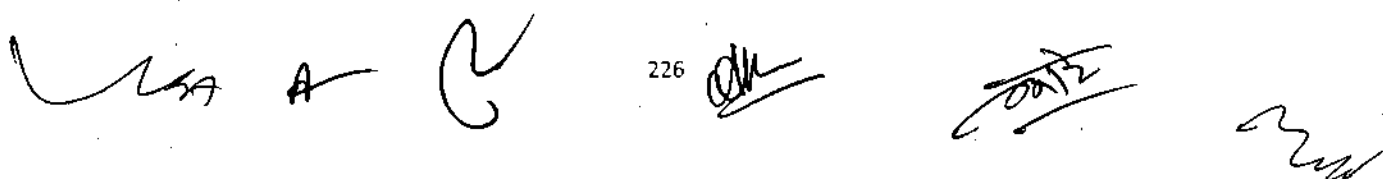
1	Latitude	From 24°43'40.47"N	To 24°43'49.44"N
2	Longitude	From 87°42'21.99"E	To 87°42'30.58"E

**LAND DETAILS :**

1	Hathigarh	:	<b>KHATA NO.</b>	<b>PLOT NO.</b>
			88/Ka	909
			61	910, 1077, 1079
			39	911, 912
			26	1052
			86	1053
			74	1078

**STATUTORY CLEARANCES**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1081/M, dated 07-07-2021.
2	CO	:	The CO, Littipara vide letter no. 382, dated 07-09-2019 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1712/M, dated 27-09-2021 certified that 04 other lease (2.50 acre, 3.00 acre, 7.52 acre & 5.86 acre) exist within 500 m radius from proposed project site and total area is 10.45 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1881, dated 01-11-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 748 dated 06-05-2021 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	:	The DC-cum-District Magistrate, Pakur vide letter no 1412/M dated 12/08/2021 has informed that this project is part of District Survey



		Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 12-09-2019
8	Mine Plan Approval	: Vide Memo no. 1826/M dated 21.10.2021

#### Working Details

1	Mining Method	: Opencast Mechanized Mining method
2	Quarry Area	: 5 years-1.84 ha      Life of Mine – 2.13 ha
3	Waste Generation	: 5 years-19093.0 cu.m
4	Stripping Ratio	: 1: 0.02
5	Working Days	: 300
6	Benchs: size & No	: 6m x 6m
7	Elevation of Mine	: 95 AMSL to 77 AMSL
8	Ground Level Elevation	: 98 AMSL
9	Ultimate Working Depth	: 77 AMSL (21 m bgl)
10	Water Table	: 72 AMSL (26 m bgl)
11	Topography of Mine	: Area represents an almost flat land with two hillocks
12	Explosive Requirement	: 50 kg slurry explosive
13	Diesel/Fuel requirement	: 9 liter/day

#### Production Details

Year	Production of Stone in Tonnes	Production of stone in cum	Waste (tones)	Waste(cum)
1st	121027	43224	22863	15242
2nd	121162	43272	5777	3851
3rd	121136	43263	00	00
4th	121097	43249	00	00
5th	121044	43230	00	00
<b>Total</b>	<b>605466</b>	<b>216238</b>	<b>28640</b>	<b>19093</b>

#### Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	-	1.84	2.13(Entire area will be converted into water reservoir)
Haul Road	0.00	0.04	0.03
Proposed Crusher			
Safety Zone Plantation	-	0.65	0.65

Dump with Parapet wall & Garland Drain	-	0.21	-
<b>Total Area in use</b>	<b>0.00</b>	<b>2.74</b>	<b>2.810</b>
<b>Unused Area</b>	<b>2.814</b>	<b>0.07</b>	<b>0.004</b>
<b>Total Applied Area</b>	<b>2.814</b>	<b>2.814</b>	<b>2.814</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	Location		Area/Length	No of Trees
1	Safety Zone	:	0.65 ha	1630
2	Haul /Approach Road	:	0.35 km	350

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

### Solid Waste Management

- Waste Generation will be 19093.0 cum (dump area- 0.21 ha in plan period) during the plan period. During Plan period gritty soil removed will be dumped at Southern part of the area with suitable precautions like parapet wall and garland drain. The small quantity of the removed gritty soil would also be used for road dressing and plantation. At conceptual period dump will be removed & will be used for backfilling.

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.

- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.




#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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

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 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing



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

18. Sugasarwa Stone Deposit of Smt. Deepa Devi, Village : Sugasarwa, Thana : Chainpur, Dist. : Gumla, Jharkhand (1.21 Ha).

(Proposal No. : SIA/JH/ MIN/252563 /2022).

PAs not present. The proposal will be taken up for consideration after receiving of request from PAs.

19. Shankardih Stone Deposit of M/s Shri Hari Minerals, Village : Shankardih, Thana & Tehsil : Dumri, Dist. : Giridih, Jharkhand (1.04 Ha).

(Proposal No. : SIA/JH/ MIN/251580 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 32,220 cum/ annum or 86,994.00 TPA

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

This is anewproject which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Shankardih Stone Deposit
2	Lessee:	: M/ s Shri Hari Minerals Partners – Sri Prateek Agrawal, S/o Sri Krishna Kumar Agrawal At Po-Jhumri Tilaiya, District- Koderma, Jharkhand. 2nd Partner- Sri Gangadhar Prasad Sahu, S/o Late Chetlral Sahu At PO- Inderwa , District- Koderma, Jharkhand
3	Lease Address	: Village-Shankardih, Thana-Dumri, District -Giridih, State :-Jharkhand
4	Lease Area	: 1.04ha Acres- 2.5825 acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 20 Lakhs
7	EMP Budget	: Capital: 3.26 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.40 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 321120.00 cum Tonnes: 867024.00 tons
11	Mine Life	: 10.00 years
12	Man power	: 20
13	Water Requirement	: 9.5 KLD (Drinking: 0.2KLD,Dust Suppression:5.20 KLD, Plantation:3.84 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher.

17	Nearest Water Body	: Jamunia River, 3.0 km., S direction. Mahobera river, 9.30 km. NW direction.
18	Nearest Habitation	: Thakurchak, 0.70 km
19	Nearest Rail Station	: Bholdih Railway station, 2.10 km
20	Nearest Air Port	: Birsa Munda Airport, Ranchi Airport, 105 km
21	Nearest Forest	: PF near Ratanpur village Approx. 4.5 km. in SE direction. PF near Kuramu village Approx. 7.8 km. in ESE direction. PF near Paharpur village Approx. 5.3 km. in SE direction. Parasnath PF Approx. 3.0 km. in N direction.
22	Road & Highways	: NH-19, Approx. 0.90 km.

**CO-ORDINATES :**

1	Latitude	From 23°54'57.17"N	To 23°55'02.09"N
2	Longitude	From 86°07'29.02"E	To 86°07'35.14"E

**LAND DETAILS :**

Shankardih	Khata No.	Plot No.
	47	912(P)
	136	828 (P)

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Giridih vide letter no. 1059/M, dated 17.12.2021.
2	CO	: The CO, Dumri (Giridih) vide letter no. 710 dated 09.12.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyar.
3	DMO	: DMO, Giridih vide memo no. 15/M, dated 04.01.2022 certified that total lease within 500 m radius from proposed project is less than 5 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 2185, dated 06.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Giridih East Forest Division vide letter no. 3222 dated 14.12.2021 certified that the distance of reserved /, protected

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		forest from the project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, Giridih vide letter no 08/M, dated 03.01.2022 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 26-11-2021
8	Mine Plan Approval	: Vide letter no. 817/G on 27.12.2021

### Working Details

1	Mining Method	: Opencast Semi - Mechanized Mining method.
2	Quarry Area	: 5 years- 0.473 ha      Life of Mine - 0.638 ha
3	Waste Generation	: 5 years- 3420.00 cu.m
4	Stripping Ratio	: 1: 0.008
5	Working Days	: 300
6	Bench: size & No	: 6m x 6m
7	Elevation of Mine	: 262 AMSL to 265 AMSL
8	Ground Level Elevation	: 250 AMSL
9	Ultimate Working Depth	: 241 AMSL (9 mbgl )
10	Water Table	: 230 AMSL (20 mbgl)
11	Topography of Mine	: Area represents a Flat topography.
12	Explosive Requirement	: 3.6 kg/day explosive cartridge
13	Diesel/Fuel requirement	: 6 liter/day

### Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	80433.00	29790.00	1890.00	265 mRL - 259 mRL
2 <sup>nd</sup>	83835.00	31050.00	1530.00	263 mRL - 259 mRL
3 <sup>rd</sup>	86994.00	32220.00	-	259 mRL - 253 mRL
4 <sup>th</sup>	86994.00	32220.00	-	259 mRL - 247 mRL
5 <sup>th</sup>	86994.00	32220.00	-	259 mRL - 247 mRL
<b>Total</b>	<b>425250.00</b>	<b>157500.00</b>	<b>3420.00</b>	



Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	0.473	0.638 (entire area will be converted into water reservoir)
Road	0.005	0.003	0.003
Safety Zone Plantation	Nil	0.399	0.399
<b>Total</b>	<b>0.005</b>	<b>0.875</b>	<b>1.04</b>
<b>Unused Area</b>	<b>1.035</b>	<b>0.165</b>	<b>0.000</b>
<b>Total leasehold area</b>	<b>1.04</b>	<b>1.04</b>	<b>1.04</b>

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.399 ha	1000
2	Haul /Approach Road	: 0.28 km	280

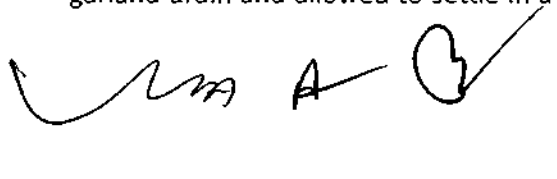

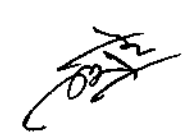

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

**Solid Waste Management**

- Pit layout has been shown in development plan & section and there is 3420.00 cum waste generated during this mining plan period, so there is no requirement of waste dumping Plan for this mining plan but it will be used for village road and approach road maintenance.

**Water Quality Management**

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing


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discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside

- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

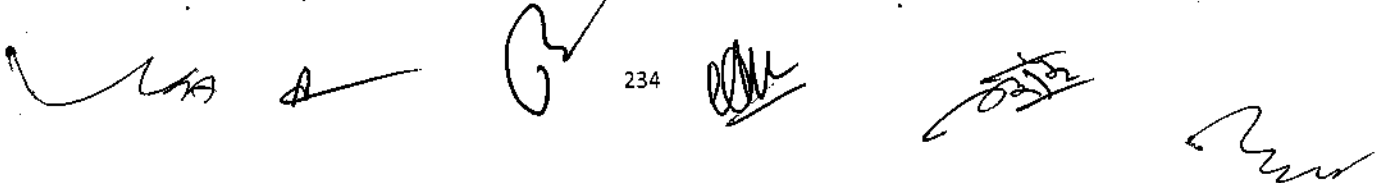
#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated

 Several handwritten signatures and initials are present at the bottom of the page, including a large signature on the left, a signature in the center, and several smaller signatures on the right.

12.12.18 decided that the proposal for Shankardih Stone Deposit of M/s Shri Hari Minerals, Village : Shankardih, Thana & Tehsil : Dumri, Dist. : Giridih, Jharkhand (1.04 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – i.

20. Shankardih Stone Deposit of M/s Shri Shankar Stone Mines, Village : Shankardih, Thana : Dumri, Dist. : Giridih, Jharkhand (3.19 Ha).

(Proposal No. : StA/JH/ MIN/2S1582 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 41250.00 cum/ annum or 111375.00 TPA

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

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Shankardih Stone Deposit
2	Lessee:	: M/s Shri Shankar stone mines Partners – Sri Manoj Mehta 2nd Partner- Sri Santosh Mehta Village-Phulwariya, Thana-Nawalsahi, District-Koderma, State- Jharkhand.
3	Lease Address	: Village-Shankardih, Thana-Dumri, District -Giridih, State :-Jharkhand
4	Lease Area	: 1.29 ha Acres- 3.19 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 25 Lakhs
7	EMP Budget	: Capital: 3.25 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.50 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 414900.00 cum Tonnes: 1120230.00 tons
11	Mine Life	: 10.00 years
12	Man power	: 20
13	Water Requirement	: 8.0 KLD (Drinking: 0.2 KLD, Dust Suppression: 3.61 KLD, Plantation: 3.93 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Jamunia River, 3.0 km., S direction. Mahobera river, 9.30 km. NW direction.
18	Nearest Habitation	: Amalkuri, 0.50 km.
19	Nearest Rail	: Bholdih Railway station, 2.50 km

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	Station	
20	Nearest Air Port	: Birsa Munda Airport, Ranchi Airport, 105 km
21	Nearest Forest	: PF near Ratanpur village Approx. 4.5 km. in SE direction. PF near Kuramu village Approx. 7.8 km. in ESE direction, PF near Paharpur village Approx. 5.3 km. in SE direction. Parasnath PF Approx. 3.0 km. in N direction.
22	Road & Highways	: NH-19, Approx. 0.50 km.

**CO-ORDINATES :**

1	Latitude	From 23°55'08.45"N	To 23°55'12.47"N
2	Longitude	From 86°07'34.52"E	To 86°07'40.63"E

**LAND DETAILS :**

	KHATA NO.	PLOT NO.
Shankardih	168	814 & 843
	07	815
	70	818
	03	838
	88	841

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Giridih vide letter no. 1060/M , dated 17.12.2021
2	CO	: The CO, Dumri (Giridih) vide letter no. 709 dated 09.12.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyani.
3	DMO	: DMO, Giridih vide memo no. 14/M, dated 04.01.2022 certified that total lease within 500 m radius from proposed project is less than 5 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 2180, dated 06.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Giridih East Forest Division vide letter no. 3164 dated 10.12.2021 certified that the distance of reserved / protected forest from the project site is more than 250 m.

6	DSR	:	The DC-cum-District Magistrate, Giridih vide letter no 08/M, dated 03.01.2022 has informed that this project is part of District Survey Report (DSR) at Giridih district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 26-11-2021
8	Mine Plan Approval	:	Vide letter no. 816/G on 27.12.2021

**Working Details :**

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years- 0.865 ha      Life of Mine - 0.865 ha
3	Waste Generation	:	5 years- 3600.00 cu.m
4	Stripping Ratio	:	1: 0.006
5	Working Days	:	300
6	Bench: size & No	:	6m x 6m
7	Elevation of Mine	:	270 AMSL to 275 AMSL
8	Ground Level Elevation	:	250 AMSL
9	Ultimate Working Depth	:	245 AMSL (5 mbgl )
10	Water Table	:	230 AMSL (20 mbgl)
11	Topography of Mine	:	Area represents a Flat topography.
12	Explosive Requirement	:	3.6 kg/day explosive cartridge
13	Diesel/Fuel requirement	:	6 liter/day

**Production Details**

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	104085.00	38550.00	1950	275 mRL - 269 mRL
2 <sup>nd</sup>	108945.00	40350.00	1650	272 mRL - 263 mRL
3 <sup>rd</sup>	111375.00	41250.00	-	269 mRL - 263 mRL
4 <sup>th</sup>	111375.00	41250.00	-	269 mRL - 263 mRL
5 <sup>th</sup>	111375.00	41250.00	-	263 mRL - 257 mRL
<b>Total</b>	<b>547155.00</b>	<b>202650.00</b>	<b>3600.00</b>	

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Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.865(0.003 ha roads comes under)	0.865 (entire area will be converted into water reservoir)
Road	0.006	0.003	0.003
Safety Zone Plantation	Nil	0.422	0.422
<b>Total</b>	<b>0.006</b>	<b>1.290</b>	<b>1.290</b>
<b>Unused Area</b>	<b>1.284</b>	-	0.000
<b>Total leasehold area</b>	<b>1.29</b>	<b>1.29</b>	<b>1.29</b>

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.422ha	1060
2	Haul /Approach Road	: 0.25 km	250

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

**Solid Waste Management**

- Pit layout has been shown in development plan & section and there is 3600.00 cum waste generated during this mining plan period, so there is no requirement of waste dumping Plan for this mining plan but it will be used for village road and approach road maintenance.

**Water Quality Management**

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of

suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.

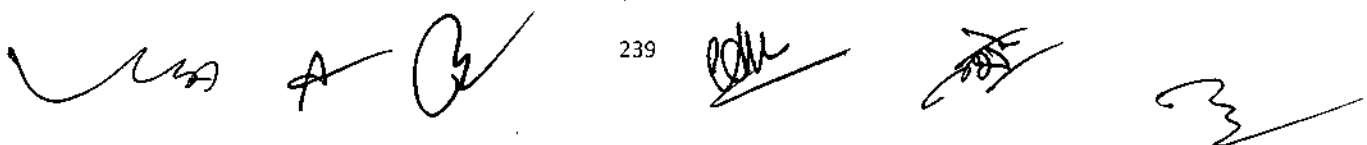
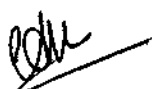


- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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

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- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Shankardih Stone Deposit of M/s Shri Shankar Stone Mines, Villiage : Shankardih, Thana : Dumri, Dist. : Giridih, Jharkhand (3.19 Ha).is recommended for grant of EC. The various conditions for grant of EC is enclosed asAnnexure – I.

21. Kuchu Stone Deposit of M/s Damodar Enterprises, Villiage : Kuchu, Thana : Angara, Dist. : Ranchi, Jharkhand (2.44 Ha).

(Proposal No. : SIA/JH/ MIN/251579 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity-69,560.4 cu.m/annum or 1,87,813.08 TPA

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

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Kuchu Stone Deposit
2	Lessee:	: M/s Damodar enterprises (Partner - Shri. Prabhat kumar ) At Village – Saraiyatola, P.O – Sonda , P.S.- Patratu District–Ramgarh, State – Jharkhand.
3	Lease Address	: Village –Kuchu, Thana- Angara, District – Ranchi, State –Jharkhand.
4	Lease Area	: 2.440 ha Acres-6.03 acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 35 Lakhs
7	EMP Budget	: Capital: 3.98 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.60 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 3,47,253.2 cum Tonnes: 9,37,583.64 tons
11	Mine Life	: 05 years
12	Man power	: 25
13	Water Requirement	: 10.5KLD (Drinking: 0.25 KLD, Dust Suppression:5.4KLD, Plantation: 4.47 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Subarnarekha River, approx. 0.30 km towards North direction.



18	Nearest Habitation	:	Kuchu, 0.4 km, SE direction.
19	Nearest Rail Station	:	Jonha Railway station, approx.9.20 km, SSW direction.
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi, approx. 35 km, WSW direction
21	Nearest Forest	:	PF near Kuchu Village approx. 0.20 km towards West direction. Dense Jungle mainly Sal, Paina Pahar Approx. 4.5 km towards SSW direction. Dense mixed jungle, near Chirudih village Approx. 3.5 km towards E direction. Open Mixed Jungle, near Pipratoli village Approx 4.0 km towards NW direction
22	Road & Highways	:	NH-320 at approx. 6.0 km. in NW direction.

**CO-ORDINATES :**

1	Latitude	From 23°26'04.2742"N	To 23°26'09.4946"N
2	Longitude	From 85°38'44.8762"E	To 85°38'53.8382"E

**LAND DETAILS :**

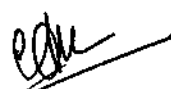
Kuchu	Khata No.	Plot No.
	82	259, 260, 261, 262, 264, 266, 267 & 302

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Ranchi vide letter no. 987/M, dated 27.11.2021
2	CO	:	The CO, Angara, Ranchi vide letter no. 691 dated 02.09.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.
3	DMO	:	DMO, Ranchi vide memo no. 1021 dated 11.12.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Ranchi vide letter no. 1125 dated 14.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 2478 dated 08.09.2021 certified that the distance of reserved / protected forest from the project site is more than 250 m.











6	DSR	:	The DC-cum-District Magistrate, Ranchi vide letter no. 1151/M, dated 30.12.21 has informed that this project is part of District Survey Report (DSR) at Ranchi district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 15-09-2021 & 26.09.2021
8	Mine Plan Approval	:	Vide Memo no. 801/G on 14.12.2021

**Working Details :**

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.842ha
3	Waste Generation	:	5 years-44814 cu.m
4	Stripping Ratio	:	1: 0.4
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	497 AMSL to 523AMSL
8	Ground Level Elevation	:	497 AMSL
9	Ultimate Working Depth	:	492 AMSL (5 mbgl )
10	Water Table	:	482AMSL (15 mbgl)
11	Topography of Mine	:	The lease area represents a small hillock
12	Explosive Requirement	:	Class - III (special gelatin )& Class -VI explosive (detonator, electric detonator ) is used
13	Diesel/Fuel requirement	:	10 liter/day

**Production Details :**

Year	Total excavation of stone		Overburden in cum	Intercalated in cum	Total waste in cum
	Cum	MT			
1st	69560.40	187813.08	4340.00	7098.00	11438.00
2nd	69423.00	187442.64	2520.00	7084.00	9604.00
3rd	69423.00	187442.64	840.00	7084.00	7924.00
4th	69560.00	187813.08	0.00	7098.00	7098.00
5th	69286.00	187072.20	1680.00	7070.00	8750.00
<b>Total</b>	<b>347252.4</b>	<b>937583.64</b>	<b>9380.00</b>	<b>35434.00</b>	<b>44814.00</b>

Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	1.842	1.842 (0.400 ha area shall be backfilled,1.294 ha converted in to water reservoir & 0.148 ha shall be left as dead benches)
Road	Nil	0.003	0.003
Waste Dump	Nil	Nil	Nil
Infrastructure	Nil	Nil	Nil
Safety Zone Plantation	Nil	0.595	0.595
<b>Total</b>	<b>Nil</b>	<b>2.440</b>	<b>2.44</b>
<b>Unused Area</b>	<b>2.44</b>	<b>0.000</b>	<b>0.000</b>
<b>Leasehold Area</b>	<b>2.44</b>	<b>2.440</b>	<b>2.44</b>

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	0.595 ha	1490
2	Haul /Approach Road	0.40km	400

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

**Solid Waste Management**

- About 44814.00 cum waste (9380 cu.m OB & 35434 cu.m. intercalated waste) will be generated. The OB consist of weathered rock intermixed with soil.



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- The generated waste will be dump temporarily on the Eastern side of the lease area during 1<sup>st</sup> to 4<sup>th</sup> year & waste generated during 5<sup>th</sup> year & waste of temporarily dump will be used for backfilling of exhausted quarry in Eastern part which cover 0.4 ha

#### **Water Quality Management**




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

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard




- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kuchu Stone Deposit of M/s Damodar Enterprises, Village : Kuchu, Thana : Angara, Dist. : Ranchi, Jharkhand (2.44 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

22. Amjhor Stone Deposit of M/s Om Stone Works, Village : Amjhor, Thana : Jirwabari, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (1.214 Ha).

(Proposal No. : SIA/JH/ MIN/251891 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity-10241.00 cu.m/annum or 29698.90 TPA

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

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Amjhor Stone Deposit
2	Lessee:	: M/S Om Stone Works (Partner- 1.Sri J.P Yadav 2.Sri Sanjay Kumar 3.Sri Amit Malto 4.Sri Bharat Bhushqn Tiwary Address-KuthariColgong, Bhagalpur,Bihar-813203
3	Lease Address	: Village – Amjhor, Thana- Jirwabari, District – Pakur, State –Jharkhand.
4	Lease Area	: 1.62ha Acres-3.00Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 25 Lakhs
7	EMP Budget	: Capital: 1.93Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.50Lakhs

9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.m.:102606.90 cum Tonnes: 297560.01tons
11	Mine Life	:	10.00 years
12	Man power	:	22
13	Water Requirement	:	6.00 KLD(Drinking: 0.22KLD,Dust Suppression:2.9 KLD, Plantation:2.7 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Ganga River, 8.00km, N direction
18	Nearest Habitation	:	Marikuti, 3.0km
19	Nearest Rail Station	:	Karamtola Railway station, 4km
20	Nearest Air Port	:	Durgapur Airport, 182km
21	Nearest Forest	:	Protected Forest near Jani Village, approx.1.6 km, NW side Protected Forest near Lahubera Village, 3.6 km, NW side
22	Road & Highways	:	NH-80 , Approx. 4.00 km

**CO-ORDINATES :**

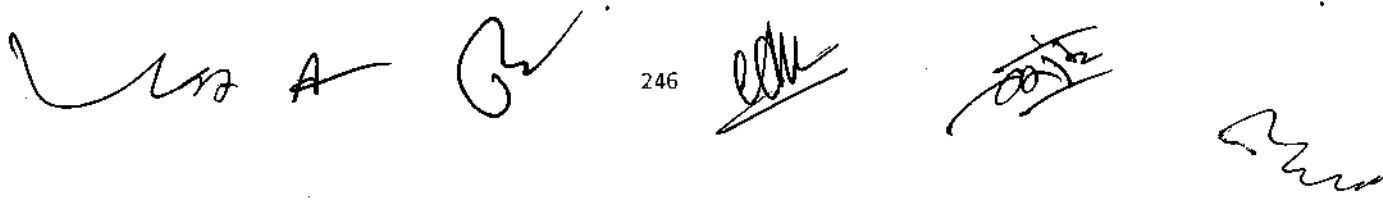
1	Latitude	From 25°14'00.1618"N	To 25°14'04.8095"N
2	Longitude	From 87°33'02.4367"E	To 87°33'08.3597E

**LAND DETAILS :**

1	Amjhor	:	Khata No.	Plot No.
			15	251(P)

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Sahibganj vide letter no. 980/M , dated 27.09.2021
2	CO	:	The CO, Pakur vide memo no. 829, dated 29.08.2019has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide memo no. 981/M, dated 27.09.2021 certified that no other lease exists within 500 m radius from proposed project



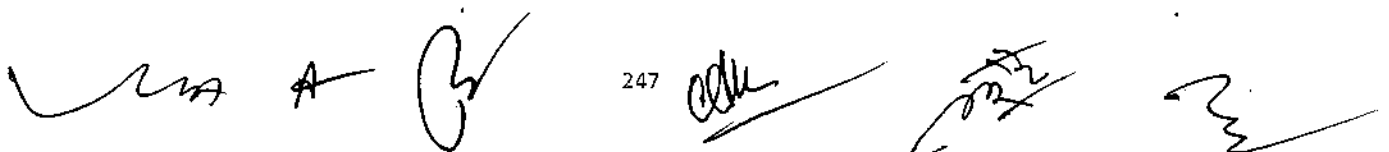
		site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1957, dated 14.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Sahibganj Forest Division vide letter no. 829 dated 15.06.2019 certified that the distance of notified forest from the project site is 270 m.
6	DSR	: The DC-cum-District Magistrate, Sahibganj vide letter no. 1154/M dated 29/11/2021 has informed that this project is part of District Survey Report (DSR) at Sahibganj district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 25-08-2019
8	Mine Plan Approval	: Vide letter no. 1037/M dated 11.10.2021

**Working Details :**

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years-0.575ha Life of Mine - 0.871 ha
3	Waste Generation	: 5 years-10919.65cu.m
4	Stripping Ratio	: 1: 0.03
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 147AMSL to 174AMSL
8	Ground Level Elevation	: 147AMSL
9	Ultimate Working Depth	: 134 AMSL (13mbgl )
10	Water Table	: 127 AMSL (20mbgl)
11	Topography of Mine	: Area represents a small hillock
12	Explosive Requirement	: Class - III (special gelatin )& Class -VI explosive (detonator, electric detonator ) is used
13	Diesel/Fuel requirement	: 8 liter/day

**Production Details :**

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	29698.90	10241.00	3675.00	166mRL - 154mRL



2 <sup>nd</sup>	29428.91	10147.90	1318.10	166 mRL - 154 mRL
3 <sup>rd</sup>	29563.91	10194.45	1908.55	154mRL - 148mRL
4 <sup>th</sup>	29698.90	10241.00	735.00	154 mRL - 148 mRL
5 <sup>th</sup>	29698.90	10241.00	3283.00	148mRL - 142mRL
<b>Total</b>	<b>148089.52</b>	<b>51065.35</b>	<b>10919.65</b>	

### Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.575	0.871(0.088 ha area shall be backfilled and after backfilling entire area will be converted into water reservoir).
Road	Nil	0.021	0.005
Waste Dump	Nil	0.186	Nil (waste dump to be removed and backfilled)
Crusher	Nil	Nil	Nil
Safety Zone Plantation	Nil	0.338	0.338
<b>Total</b>	<b>Nil</b>	<b>1.120</b>	<b>1.214</b>
<b>Unused Area</b>	<b>1.214</b>	<b>0.094</b>	<b>0.000</b>
<b>Lease hold Area</b>	<b>1.214</b>	<b>1.214</b>	<b>1.214</b>

### ENVIRONMENT MANAGEMENT

#### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.338ha	850
2	Haul /Approach Road	:	0.05 km	50

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



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

#### **Solid Waste Management**

- Waste Generation will be 10919.65cum (dump area- 0.186 ha & height- 5 m) during the plan period. During plan period the proposed waste shall be temporarily dump on western side of the applied area.

#### **Water Quality Management**




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

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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







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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Amjhor Stone Deposit of M/s Om Stone Works, Village : Amjhor, Thana : Jirwabari, Tehsil : Mandro, Dist. : Sahibganj, Jharkhand (1.214 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

23. Dohakatu Stone Mine of Kumari Deepmala and Smt. Meena Devi, Village : Dohakatu, Thana : Ramgarh, Dist. : Ramgarh, Jharkhand (1.65 Ha).

(Proposal No. : SIA/JH/ MIN/251707/2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 30243 cu.m/annum or 84,680 TPA

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

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Dohakatu Stone Mine
2	Lessee:	: Kumari Deepmala, D/O – Sri Ravindra Paswan, Village – Kathal Tola, P.O.+P.S. - Sohsarai, District- Nalanda, Bihar. Smt. Meena Devi, W/O- Sri Satyendra Kr. Verma Village + P.O.- Rajgir, P.S. - Rajgir, District- Nalanda, Bihar.
3	Lease Address	: Village – Dohakatu, Thana- Ramgarh, District – Ramgarh, State – Jharkhand.

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4	Lease Area	:	1.65 ha	Acres-4.07 Acres
5	Type of Land	:	Non Forest – Raiyati Land	
6	Project Cost	:	Rs. 25 Lakhs	
7	EMP Budget	:	Capital: 3.63 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.50Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.m.: 1,51,223.21cum	Tonnes: 4,23,425 tons
11	Mine Life	:	5.00 years	
12	Man power	:	50	
13	Water Requirement	:	9.45 - 9.5 KLD(Drinking: 0.50KLD,Dust Suppression:3.70 KLD, Plantation:5.25 KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	-	
16	Crusher	:	No crusher	
17	Nearest Water Body	:	Barki Nadi Approx. 4.70 km towards NE direction Subarnarekha River Approx. 9.0 km towards South direction Damodar River Approx. 9.5 km towards North direction	
18	Nearest Habitation	:	Dohakatu, 0.40km	
19	Nearest Rail Station	:	Ramgarh Cantonment Railway station, approx. 7.0 km toward NNW direction	
20	Nearest Air Port	:	Birsa Munda Airport, Ranchi approx. 33.3 km towards SW direction	
21	Nearest Forest	:	Protected Forest near Dohakatu Village Approx. 0.3 km towards NE direction Protected Forest near Manatu Approx. 1.80 km towards SSW direction Protected Forest near Ganeshpur Village Approx. 3.3 km towards South direction	
22	Road & Highways	:	NH-20 Approx. 0.6 km. in NW direction. NH-320 Approx. 6.60 km. in South direction. SH-2 Approx. 4.70 km. in North direction.	

#### CO-ORDINATES

1	Latitude		From 23°33'13.80"N	To 23°33'20.79"N
2	Longitude		From 85°31'25.14"E	To 85°31'33.97"E

#### LAND DETAILS :

Khata no.	Plot no.
25	71, 73, 74
09	72

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251

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36	67
18	39
16	68
34	38

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Ramgarh vide letter no. 566/M , dated 16.07.2020.
2	CO	: The CO, Ramgarh vide letter no. 2203, dated 13.09.2019. has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyon.
3	DMO	: DMO, Ramgarh vide memo no. 199 dated 25.02.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 2503, dated 19.11.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Ramgarh Forest Division vide letter no. 2714 dated 08-11-2019 certified that the distance of Reserved Forest / Protected Forest from the project site is 260 m.
6	DSR	: The DC-cum-District Magistrate, Ramgarh vide letter no 1406/M dated 14/12/2021 has informed that this project is part of District Survey Report (DSR) at Ramgarh district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 29-07-2020
8	Mine Plan Approval	: Vide Letter no. 442/G dated 01.03.2021

**Working Details :**

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years-0.97ha Life of Mine - 5.00Year
3	Waste Generation	: 5 years-5,207cu.m
4	Stripping Ratio	: 1: 0.07
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 596AMSL to 592AMSL
8	Ground Level Elevation	: 596AMSL

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9	Ultimate Working Depth	:	560 AMSL (32mbgl)
10	Water Table	:	557 AMSL (35mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	Gel explosive is used (3.5 kg/day)
13	Diesel/Fuel requirement	:	9 liter/day

**Production Details :**

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	84669	30239	2209	596 mRL – 584 mRL
2 <sup>nd</sup>	84633	30226	1535	596 mRL - 584 mRL
3 <sup>rd</sup>	84658	30235	665	596 mRL – 578 mRL
4 <sup>th</sup>	84672	30240	798	596 mRL - 584 mRL
5 <sup>th</sup>	84680	30243	0	584 mRL – 566 mRL
<b>Total</b>	<b>423312</b>	<b>151,182.85</b>	<b>5207</b>	

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	0.97 (including road)	0.97 (Entire area will be converted into water reservoir)
Road	0.01	0.0	0.0
Safety Zone Plantation	Nil	0.68	0.68
<b>Total</b>	<b>0.01</b>	<b>1.65</b>	<b>1.65</b>
<b>Unused Area</b>	<b>1.64</b>	<b>0.0</b>	<b>0.0</b>
<b>Total Leasehold Area</b>	<b>1.65</b>	<b>1.65</b>	<b>1.65</b>

**ENVIRONMENT MANAGEMENT**  
Green Belt Development

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S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.68ha	1700
2	Haul /Approach Road	:	0.50 km	50

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

#### **Solid Waste Management**

- Waste Generation will be 5207cum during the plan period. During plan period the proposed waste will be used for plantation and in maintenance of road.

#### **Water Quality Management**

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 3m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom 5oak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

#### **Air Quality Management**

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission

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

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Dohakatu Stone Mine of Kumari Deepmala and Smt. Meena Devi, Village : Dohakatu, Thana : Ramgarh, Dist. : Ramgarh, Jharkhand (1.65 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

24. Sundarpahari Stone Deposit of M/s Maa Tara Stone Works, Village : Sundarpahari, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.387 Ha).

(Proposal No. : SIA/JH/ MIN/254593 /2022).

Project Category: B2 – Application for Environment Clearance

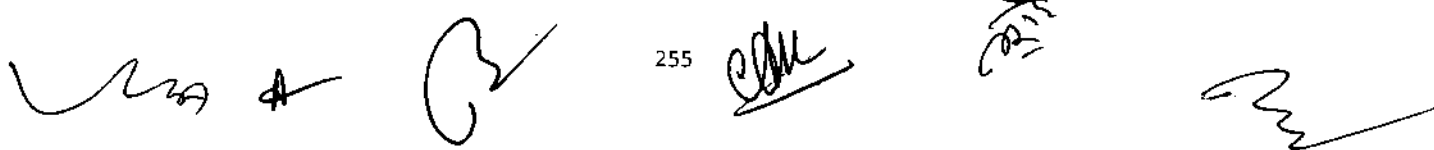
EC Application for: Proposed Capacity- 31,666.05 cu.m/annum or 85,498.33 TPA

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

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

255



Sl	Parameter	Details	
1	Project Name	Sundarpahari Stone Deposit	
2	Lessee:	M/S Maa Tara Stone Works Prop.- Sh. Chiranjit Prasad At Village, P.O. and Thana-Nalhati, District- Birbhum, West Bengal.	
3	Lease Address	Village – Sundarpahari, Thana- Maheshpur, District – Pakur, State – Jharkhand.	
4	Lease Area	2.387 ha	Acres-5.90 Acres
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	Rs. 35 Lakhs	
7	EMP Budget	Capital: 4.10 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	Rs. 0.70Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 256,151.35 cum	Tonnes: 7,42,838.92 tons
11	Mine Life	10.00 years	
12	Man power	29	
13	Water Requirement	10.0 KLD(Drinking: 0.30KLD,Dust Suppression: 6.20 KLD, Plantation:3.50 KLD)	
14	Water Source	From Nearby villages by tankers	
15	DG Set / power	-	
16	Crusher	No crusher	
17	Nearest Water Body	Bansloi Nadi Approx. 11.5 km towards N direction.	
18	Nearest Habitation	Sundarpahari, 0.20 km	
19	Nearest Rail Station	Chatra Railway station, approx. 10.5 km toward East direction.	
20	Nearest Air Port	Kazi Nazrul Islam Airport, approx. 100.0 km towards SSW direction.	
21	Nearest Forest	Reserved Forest near Madhupur Village Approx. 9.50 km towards S direction of mine site. Open Eucalyptus jungle RF Approx. 9.20 km towards S direction of mine site.	
22	Road & Highways	NH-14 ,Approx. 13.0 km. in SE direction. SH-7, Approx. 10.5 km in East direction.	

**CO-ORDINATES :**

1	Latitude	From 24°22'14.9222" N	To 24°22'22.1043" N
2	Longitude	From 87°44'42.4140" E	To 7°44'49.5603" E

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LAND DETAILS :

1	Sundarpahari	Khata No.	Plot No.
		09	290, 314, 315 & 316

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1778/M , dated 14.10.2019.
2	CO	:	The CO, Maheshpur vide letter no. 515, dated 17.07.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1928 on 03.11.2021 certified that one lease (4.29 acres) exists within 500 m radius from proposed project site and total area is 4.12 ha.
4	DFO Wild Life	:	DFO Wildlife Hazaribagh vide letter no. 1432, Hazaribag on 25.07.2019 certified that the Udhwa Lake Bird Sanctuary is 66,120 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Division vide letter no. 1090 on 07.09.2019 certified that the distance of reserved / protected forest from the project site is more than 250 m.
6	DSR	:	The Project is mentioned in District Survey Report (DSR), Pakur district.
7	Gram Sabha	:	on 08-07-2019
8	Mine Plan Approval	:	Vide Memo no. 583/DDM dated 31-12-2019

Working Details

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.387 ha      Life of Mine - 1.803 Ha
3	Waste Generation	:	5 years-16345.74cu.m
4	Stripping Ratio	:	1: 0.04
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	81 AMSL to 71 AMSL
8	Ground Level	:	81 AMSL

	Elevation	
9	Ultimate Working Depth	: 65 AMSL (3 mbgl )
10	Water Table	: 56 AMSL (12 mbgl)
11	Topography of Mine	: Area represents a small hillock
12	Explosive Requirement	: 42 kg slurry explosive
13	Diesel/Fuel requirement	: 8 liter/day

### Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	74236.23	25598.70	7795.30	77 mRL – 77 mRL
2 <sup>nd</sup>	74276.73	25612.67	1348.04	71 mRL - 71 mRL
3 <sup>rd</sup>	74302.35	25621.5	1999.50	71 mRL – 71 mRL
4 <sup>th</sup>	74137.05	25564.50	3856.50	71 mRL – 71 mRL
5 <sup>th</sup>	74186.64	25581.60	1346.40	65 mRL – 65 mRL
<b>Total</b>	<b>371139.00</b>	<b>127979</b>	<b>16345.74</b>	

### Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.387	1.803 (0.138 ha area shall be backfilled & entire area after backfilling will be converted into water reservoir)
Road	0.099	0.03	0.017
Proposed Dump	Nil	0.303	Nil (waste dump shall be removed & backfilled)
Safety Zone Plantation	Nil	0.567	0.567
<b>Unused Area</b>	<b>2.288</b>	<b>0.1</b>	<b>0.000</b>
<b>Total</b>	<b>2.387</b>	<b>2.387</b>	<b>2.387</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.567ha	1420
2	Haul/Approach Road	:	0.28 km	280

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

#### Solid Waste Management

- Waste Generation will be 16345.74cum during the plan period. Part of the waste dumped at site temporarily & will be used in maintenance of road and backfilling.

#### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and.allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

#### Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission

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

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Sundarpahari Stone Deposit of M/s Maa Tara Stone Works, Village : Sundarpahari, Thana : Maheshpur, Dist. : Pakur, Jharkhand (2.387 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

**25. Samarjobra Stone Deposit of M/s Rayson Stone Crusher, Village : Samarjobra, Thana : Patamda, Dist. : East Singhbhum, Jharkhand (2.52 Ha).**

(Proposal No. : SIA/JH/ MIN/253215 /2022).

**Project Category: B2 – Application for Environment Clearance**

**EC Application for: Proposed Capacity- 31,666.05 cu.m/annum or 8S,498.33 TPA**

**Name of the consultant: P & M Solution, Noida, UP.**

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details	
1	Project Name	Samarjobra Stone Deposit	
2	Lessee:	M/s Rayson Stone Crusher Proprietor – Shri Sumit Kumar, At-101, Akash Kalsi Tower, Dimna Road, Mango, District – East Singhbhum, Jamshedpur, Jharkhand.	
3	Lease Address	Village – Samarjobra, Thana- Patamda , District – East Singhbhum, State –Jharkhand.	
4	Lease Area	2.52 ha	Acres-6.24 Acres
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	Rs. 35 Lakhs	
7	EMP Budget	Capital: 4.90 Lakhs	Recurring: 3.27 Lakh / year
8	C5R / CER Budget	Rs. 0.70Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 156,869.1 cum	Tonnes: 4,23,546.57 tons
11	Mine Life	5.00 years	
12	Man power	22	
13	Water Requirement	12.0 KLD(Drinking: 0.22KLD,Dust Suppression:5.20 KLD, Plantation:6.60 KLD)	
14	Water Source	From Nearby villages by tankers	
15	DG Set / power	-	
16	Crusher	Yes, crusher area- 0.100 ha (including in mining)	
17	Nearest Water Body	Kumari River Approx. 6.3 km. in N direction.	
18	Nearest Habitation	Samarjobra, 0.20 km	
19	Nearest Rail Station	Biramdih Railway station, approx. 29.0 km toward W direction	
20	Nearest Air Port	Birsu Munda Airport Ranchi, approx. 123 Km towards W direction.	
21	Nearest Forest	Tentladih PF Approx. 3.0 km. in SSW direction. PF near Jharnakocha village Approx. 3.5 km. in NNW direction. Protected Forest Approx. 4.5 km. in ESE direction.	
22	Road & Highways	NH-116B, Approx. 6.0 km. in N direction.	

**CO-ORDINATES :**

1	Latitude	From 22°59'19" N	To 22°59'25" N
2	Longitude	From 86°28'25" E	To 86°28'38" E

**LAND DETAILS :**

Khata no.	Plot no.
14	226, 229, 230, 231, 232, 233
15	175, 176 & 223

**STATUTORY CLEARANCES**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, East Singhbhum Jamshedpur vide letter no. 1179/M , dated 18-09-2021.
2	CO	:	The CO, Patmada vide letter no. 485, dated 25-06-2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, East Singhbhum Jamshedpur vide memo no. 1583, dated 27-12-2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1471, dated 21-09-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Forest Division vide letter no. 686 & 687, dated 12-03-2021 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	:	The DC, East Singhbhum, Jamshedpur vide letter no. 1498/M, dated 06.12.2021 has informed that this project is part of District Survey Report (DSR) at East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	on 20-05-2021
8	Mine Plan Approval	:	Vide Memo no. 695/M dated 25-09-2021

**Working Details :**

1	Mining Method	:	Opencast Semi - Mechanized Mining method
2	Quarry Area	:	5 years-1.62 ha      Life of Mine - 1.62 ha
3	Waste Generation	:	5 years-72,415 cu.m
4	Stripping Ratio	:	1: 0.04
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	220AMSL to 208AMSL

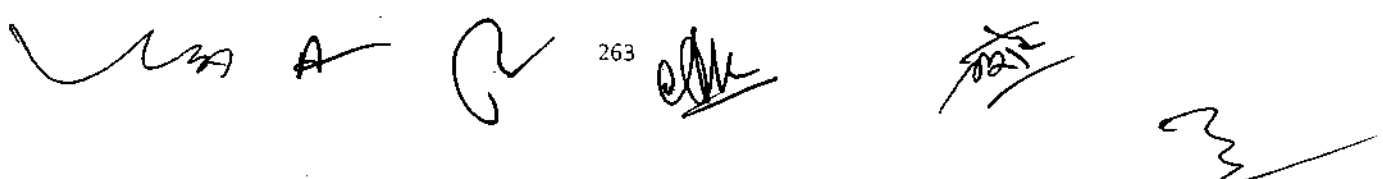
8	Ground Level Elevation	:	220 AMSL
9	Ultimate Working Depth	:	199 AMSL (9 mbgl)
10	Water Table	:	188 AMSL (20 mbgl)
11	Topography of Mine	:	Area represents a small hillock
12	Explosive Requirement	:	84 kg slurry explosive
13	Diesel/Fuel requirement	:	9 liter/day

**Production Details :**

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	85494.45	31,664.61	14819.29	220 mRL – 204 mRL
2 <sup>nd</sup>	85498.33	31,666.05	9818.45	216 mRL - 199 mRL
3 <sup>rd</sup>	85494.69	31,664.70	35183.0	220 mRL – 199 mRL
4 <sup>th</sup>	85495.17	31,664.88	4558.32	216 mRL – 199 mRL
5 <sup>th</sup>	81562.85	30,208.464	8036.49	216 mRL – 199 mRL
<b>Total</b>	<b>423545.49</b>	<b>156868.704</b>	<b>72415.55</b>	

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Excavation/ old pit	0.174	1.62	1.62 (0.81ha area left as dead bench and rest area shall be left as water reservoir for rain water harvesting)
Road	0.03	Nil	Nil
Waste dump	Nil	Nil	Nil
Proposed crusher	Nil	0.100 (including in mining)	0.100 (including in mining)
Plantation (green belt)	Nil	0.800 (Within safety zone)	0.800 (Within safety zone)
<b>Total</b>	<b>0.204</b>	<b>2.52</b>	<b>2.52</b>
<b>Area unused</b>	<b>2.316</b>	<b>0.0</b>	<b>0.0</b>
<b>Total leasehold area</b>	<b>2.52</b>	<b>2.52</b>	<b>2.52</b>



## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.800ha	2000
2	Haul /Approach Road	:	0.50 km	200

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

### Solid Waste Management

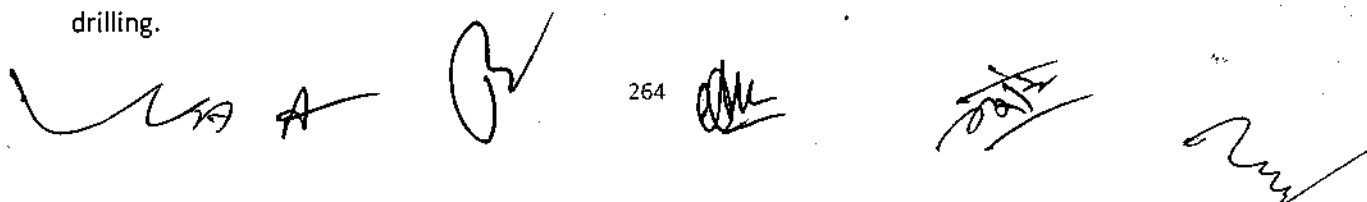
- Waste Generation will be 72415.55 cum during the plan period. Part of the waste shall be used for village & haul road maintenance and part of the waste shall be temporarily dump at southern side of 1st two year excavation and from 3rd year part of quarry will exhausted and gradually backfilling shall be done. As such, no area has been selected for waste dumping.

### Water Quality Management

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

### Air Quality Management

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

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

**Undertaking submitted affirming:**

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

During the presentation it was seen that the West Bengal state boundary was about 50 m from the project site. PAs were asked to obtain a clarification in this regard from competent authority.

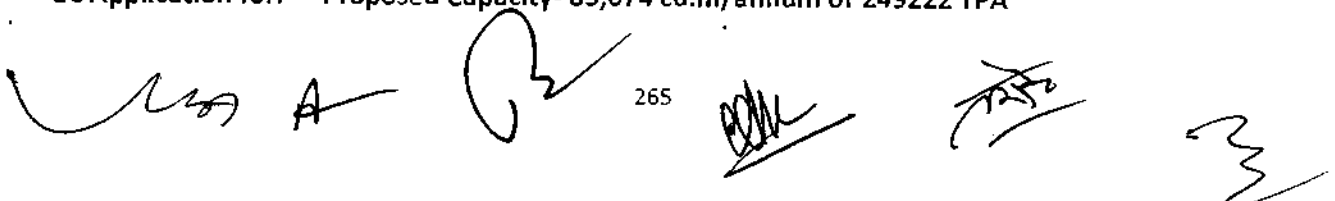
On submission of the same, the project will be taken up for reconsideration.

26. Rajbandh Stone Deposit of M/s Otandas & Co. (Mining) Pvt. Ltd., Village : Rajbandh, Thana : Pakur (M), Dist. : Pakur, Jharkhand (2.22 Ha).

(Proposal No. : 5IA/JH/ MIN/256741 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 83,074 cu.m/annum or 249222 TPA

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

This is a new project which has been taken for appraisal on 21.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Rajbandh Stone Deposit
2	Lessee:	: M/s Otandas & Co. (Mining) Pvt. Ltd. Director-Sh. Naresh Kumar Mandhyan, S/o Late Namdev Mandhyan At Village- Sindhipara, Thana- Pakur(M), District- Pakur, Jharkhand
3	Lease Address	: Village – Rajbandh, P.S.- Pakur(M), District – Pakur, State :-Jharkhand.
4	Lease Area	: 2.22 ha Acres- 5.49 Acre
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 30 Lakhs
7	EMP Budget	: Capital: 2.535 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.60 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 4,21,768 cum Tonnes: 12,65,304 tons
11	Mine Life	: 5.0 years
12	Man power	: 37
13	Water Requirement	: 5.50 KLD (Drinking: 0.40 KLD, Dust Suppression: 2.60 KLD, Plantation: 2.50 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: -
16	Crusher	: No crusher
17	Nearest Water Body	: Torai Nadi, Approx. 9.50 km towards N direction. Bansoli Nadi Approx. 9.50 km towards SE direction.
18	Nearest Habitation	: Rajbandh, 0.40 km
19	Nearest Rail Station	: Nagarnabi Railway station, approx. 3.50 km towards NE direction.
20	Nearest Air Port	: Kazi Nazrul Islam Airport, Durgapur, approx. 122.0 km towards SSW direction.
21	Nearest Forest	: Protected Forest near Mohanpur Village at approx. 2.0 km towards W direction.
22	Road & Highways	: NH-114A, Approx. 6.50 km. in North direction. SH-7, Approx. 5.0 km in ESE direction.

**CO-ORDINATES :**

1	Latitude	From 24°34'37.34"N	To 24°34'43.68"N
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2	Longitude	From 87°50'13.79"E	To 87°50'42.36"E
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**LAND DETAILS :**

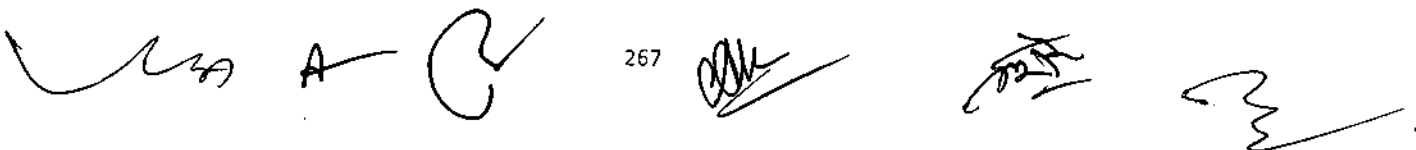
Khata no.	Plot no.
14	523
32	508, 509, 510, 511, 512, 513, 514, 524, 525, 526, 527, 528, 529, 530, 531/P & 532/P
28	444/P, 445, 446
22	520, 521, 522
04	447

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur Vide letter no. 596/M, dated 25-04-2020.
2	CO	:	The CO, Pakur vide letter no. 1226, dated 07-08-2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1632/M dated 16.09.2021 certified that one other lease (3.84 acre) exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1231, dated 25-06-2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 657 dated 15-06-2019 certified that the distance of notified forest from the project site is 600 m.
6	DSR	:	The Project is mentioned in District Survey Report (DSR), Pakur
7	Gram Sabha	:	On 04-09-2019
8	Mine Plan Approval	:	Vide letter no. 189/M on 31.10.2020

**Working Details**

1	Mining Method	:	Opencast Mechanized Mining method
2	Quarry Area	:	5 years-- 1.74 ha, Life of Mine -- 1.74 Ha
3	Waste Generation	:	5 years-- 37389 cu.m
4	Stripping Ratio	:	1: 0.08


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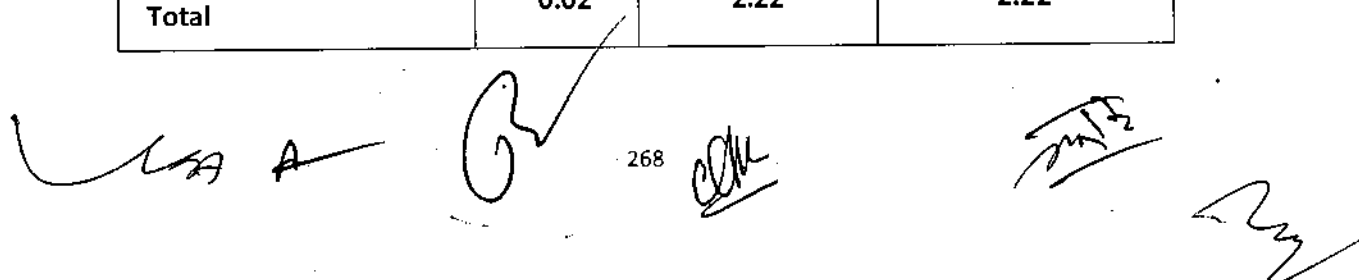
5	Working Days	:	300
6	Benches: size & No	:	6m x 6 m
7	Elevation of Mine	:	50 AMSL to 54 AMSL
8	Ground Level Elevation	:	28 AMSL
9	Ultimate Working Depth	:	12 AMSL (16 mbgl)
10	Water Table	:	9 AMSL (19 mbgl)
11	Topography of Mine	:	Area represents a flat terrain.
12	Explosive Requirement	:	92 kg slurry explosive
13	Diesel/Fuel requirement	:	10 liter diesel/day

**Production Details :**

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	83034	249102	21681	54 mRL - 42mRL
2 <sup>nd</sup>	83014	249042	00	48 mRL - 30 mRL
3 <sup>rd</sup>	83074	249222	8256	54 mRL - 30 mRL
4 <sup>th</sup>	83020	249060	00	30 mRL - 12 mRL
5 <sup>th</sup>	83028	249084	7452	54 mRL - 18 mRL
<b>Total</b>	<b>415170</b>	<b>1245510</b>	<b>37389</b>	

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	1.74	1.74 (entire area will be utilized as water reservoir for rain water harvesting)
Road	0.02	Nil	Nil
Green Belt in safety barrier	Nil	0.48	0.48
<b>Total</b>	<b>0.02</b>	<b>2.22</b>	<b>2.22</b>


 A series of handwritten signatures and initials are present at the bottom of the page. From left to right, there is a signature that appears to be 'A', a large stylized signature, the number '268', another signature, and a final signature on the far right.

Unused Area	2.20	0.000	0.000
Total applied area	2.22	2.22	2.22

## ENVIRONMENT MANAGEMENT

### Green Belt Development

S. No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.480 ha	1200
2	Haul /Approach Road	:	0.030 km	30

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

### Solid Waste Management

- Waste Generation will be 37389 cum waste (gritty soil) during the plan period. During 1st & 3rd year of mining operation, the removed gritty soil will be dumped at the south-eastern side of the applied lease area with suitable precautions and before starting of 5th year mining, the dumped gritty soil would be backfilled at the central part of the lease area.

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.

*WMA A B*

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*[Signature]*

- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.




#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Rajbandh Stone Deposit of M/s Otandas & Co. (Mining) Pvt. Ltd., Village : Rajbandh, Thana : Pakur (M), Dist. : Pakur, Jharkhand (2.22 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.



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Day 5 : February 22, 2022 [Tuesday]

Consideration of Proposals

1. Paderkola and Tursadih Stone Mine of M/s Shuman Stone Works, Village : Paderkola and Tursadih, Anchal : Hiranpur, Thana no. : 50 & 49, Dist. : Pakur, Jharkhand (2.60 Ha).

(Proposal No. : 5IA/JH/MIN/242984 /2021).

Project Category: B2 – Application for Stone Quarry  
B2 – Application for Environment Clearance

EC Application for: Boulder Stone: 42854Cu.M. Per Annum / 119991Ton Per Annum  
Crusher Proposed in Applied Area  
DG Set: 60KV  
Mobile Crusher: Yes

Name of the consultant: OCEAO-ENVIRO Management Solutions (India) Pvt. Ltd.

This is a new project which has been taken for appraisal on 22.02.2022.

PROJECT and LOCATION Details:

Sl	Parameter	Details
1	Project Name	: M/s Shuman Stone Works
2	Partner's:	: Sri Md Ishaque Ansari
3	Lease Address	: Mauza – Paderkola and Tursadih, Anchal-Hiranpur, Thana No.- 50&49, District Pakur, Jharkhand
4	Lease Area	: Ha:2.60 ha      Acres:6.42Acres
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: 75.00 Lakhs
7	EMP Budget	: Capital: 6.86Lakhs      Recurring: 3.1Lakh / year
8	CSR / CER Budget	: Rs. 3.15 Lakhs
9	New or Expansion	: New Project
10	Mineable Reserves	: Cu.M.: 579660Cu. M.      Tonnes: 1623048 Tonnes
11	Mine Life	: 13.5 years
12	Man power	: 22
13	Water Requirement	: 8.66 KLD (Drinking:0.66KLD, Water sprinkling:4 KLD, Plantation:4 KLD)
14	Water Source	: From Nearby villages by tankers
15	DG Set / power	: Not Required
16	Crusher	: Not Proposed
17	Nearest Water Body	: Torai River 4 KM
18	Nearest Habitation	: Chaukidhab Village: 0.35 KM towards WSW direction; Pakur 20.17 KM
19	Nearest Rail Station	: Kotalpukur railway station 9.14 ENE direction

20	Nearest Air Port	:	Sido kanhu airport 72.02 SW
21	Nearest Forest	:	NIL
22	Road & Highways	:	NH-80- 14.72KM;

**CO-ORDINATES :**

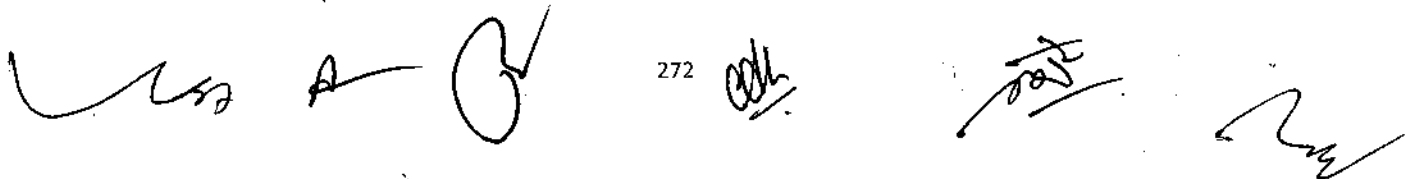
1	Latitude	From 24°43'18.80"N	To 24°43'18.90"N
2	Longitude	From 87°44'08.07"E	To 87°44'04.30"E

**LAND DETAILS :**

Mauza	Khata No.	Plot No.
Paderkola	07	1006/P, 1007/P
	31	1005/P, 1010/P, 1036/P
	36	1037/P
Tursadih	05	83/P, 84/P
Tursadih	36	82/P

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The Letter of Intent (Loi) has been issued by District Mining Office, Pakur, vide letter no. 1123/M, Dated 12.07.2021.
2	CO	:	The CO, Hiranpur, Pakur vide letter no. 496/RA, dated 27.11.2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan Register II.  The CO certificate also indicates presence of 09 houses with the population of 43 inhabitants. The Gram Sabha has mentioned in the letter that operation of the mine will not effect inhabitants as they are located at the distance of 275 m from the mine lease area.
3	DMO	:	DMO, Pakur vide memo no. 1707/M, dated 25.09.2021 certified that one lease (2.31 acre) exists within 500 m radius from proposed project site and total lease area is less than 5 Ha.
4	DFO Wild Life	:	Divisional Forest Officer, Hazaribagh vide letter no. 1894, dated 01.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Vide letter no. 933, dated 19.06.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	The DC-cum-District Magistrate, Pakur, Vide letter no. 1412/ M, dated 12.08.21 has informed that this project is part of District





		Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On Date 16.03.2021
8	Mine Plan Approval	: Memo No. 1542/M, Pakur, Dated 03.09.2021

#### Working Details

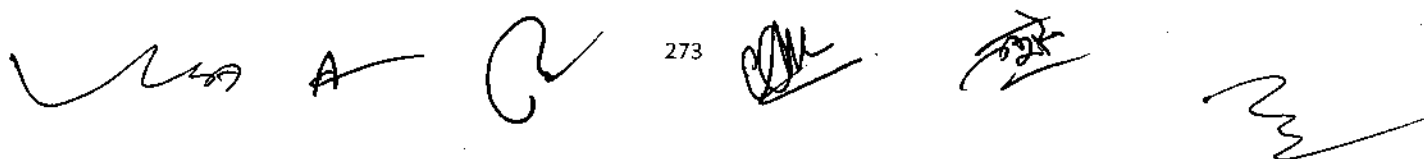
1	Mining Method	: Mechanised, Jack Hammer, Drilling & Blasting to be used
2	Quarry Area	: 5 years-1.40 ha Life of Mine - 1.95 ha
3	Waste Generation	: 5 years-10492 Cu.M Life of Mine - 10492 Cu.M
4	Stripping Ratio	: 1:0.01
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 68 m In AMSL
8	Ground Level Elevation	: 67m In AMSL
9	Ultimate Working Depth	: 24m (68Amsl to 42Amsl)
10	Water Table	: 36 Above MSL
11	Topography of Mine	: Flat land
12	Explosive Requirement	: 2Kg/Day
13	Diesel/Fuel requirement	: 396 KL/year

#### Production Details :

Year	Production of stone (Cum)	Production of stone (Ton)	Removal of gritty Soil & Weathered rock in cum	Bench RL in Meters
1 <sup>st</sup>	42840	119952	4482	66-60
2 <sup>nd</sup>	42854	119991	3962	66-60
3 <sup>rd</sup>	42665	119462	2048	60-54
4 <sup>th</sup>	42752	119706	00	60-54
5 <sup>th</sup>	42708	119582	00	54-48
<b>Total</b>	<b>213819</b>	<b>598693</b>	<b>10492</b>	

After years the production is proposed

Year	Generation of waste/O.B in cum	Production of stone in (Cum)	Production of stone in (Ton)
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6 <sup>th</sup> Year	00	42854	119991
7 <sup>th</sup> Year	00	42854	119991
8 <sup>th</sup> Year	00	42854	119991
9 <sup>th</sup> Year	00	42854	119991
10 <sup>th</sup> Year	00	42854	119991
11 <sup>th</sup> year	00	42854	119991
12 <sup>th</sup> year	00	42854	119991
13 <sup>th</sup> year	00	42854	119991
14 <sup>th</sup> year	00	23009	64425
<b>B.)Total production</b>		<b>365841</b>	<b>1024353</b>
<b>Total</b>	<b>00</b>	<b>579660</b>	<b>1623048</b>

### Land Use

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.40	1.95	1.95	Water Body
2	Office /Store	0.00	0.00	0.00	0.00	
3	Crusher	0.00	0.20	0.00	0.00	Remove Lease Area
4	Road	0.00	0.03	0.02	0.02	Approach Road
5	Garland Drain with Dump	0.00	0.21	0.00	0.00	Backfilling
6	Safety Zone	0.00	0.63	0.63	0.63	Plantation
7	Settling Tank	0.00	0.001	0.00	0.00	Settling Tank
8	Unutilized	2.60	0.13	0.00	0.00	
9	Utilized Area	0.00	0.00	0.00	0.00	
	<b>TOTAL</b>	<b>2.60</b>	<b>2.60</b>	<b>2.60</b>	<b>2.60</b>	

### ENVIRONMENT MANAGEMENT

#### Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.63 ha	1008 trees @ 1600 trees per ha
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 0.56KM	448Plants on both sides – 2.5 m distance

*Handwritten signatures and initials are present at the bottom of the page, including a large signature on the left and several smaller ones on the right.*

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

#### **Solid Waste Management**


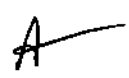




- There is waste to be generated 10492Cu.M. during life of mine which will be reclaimed after life of mine.

#### **Water Quality Management**

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

#### **Air Quality Management**

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




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**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Paderkola and Tursadih Stone Mine of M/s Shuman Stone Works, Village : Paderkola and Tursadih, Anchal : Hiranpur, Thana no. : 50 & 49, Dist. : Pakur, Jharkhand (2.60 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

2. Bastadih and Asanjola Stone Mine of M/s Ideal Construction, Village : Bastadih and Asanjola, Anchal : Hiranpur, Thana no. : 86 & 83, Dist. : Pakur, Jharkhand (2.105 Ha).

(Proposal No. : SIA/JH/MIN/242937 /2021).

Project Category: B2 – Application for Stone Quarry

B2 – Application for Environment Clearance

EC Application for: Boulder Stone : 36426Cu.M. Per Annum / 101993Ton Per Annum

Crusher not Proposed in Applied Area

DG Set: Not Requirement

Mobile Crusher: N/A

Name of the consultant: OCEAO-ENVIRO Management Solutions (India) Pvt. Ltd.

This is a new project which has been taken for appraisal on 22.02.2022.

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: M/s Ideal Construction

2	Partner's:	:	Sri Rabindranath Bhagat
3	Lease Address	:	Mauza –Bastadih and Asanjola, Anchal-Hiranpur, Thana No.- 86 &83, District Pakur, Jharkhand
4	Lease Area	:	Ha:2.10 ha      Acres:5.20 Acres
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	65.00 Lakhs
7	EMP Budget	:	Capital: 5.55 Lakhs      Recurring: 2.3 Lakh / year
8	CSR / CER Budget	:	Rs. 2.15Lakhs
9	New or Expansion	:	New Project
10	Mineable Reserves	:	Cu.M.: 364164Cu. M.      Tonnes: 1019659 Tonnes
11	Mine Life	:	10 years
12	Man power	:	21
13	Water Requirement	:	8.63 KLD (Drinking:0.63KLD,Dust Suppression:3.43 KLD, Plantation:2.0 KLD
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	Not Required
16	Crusher	:	Not Proposed
17	Nearest Water Body	:	Bansloi River 11.50 KM
18	Nearest Habitation	:	Bastadih Village: 0.49 KM towards East direction; Pakur 7.35 KM about SW direction
19	Nearest Rail Station	:	Pakur railway station 14.80 ENE direction
20	Nearest Air Port	:	Sido kanhu airport 60.58 SW
21	Nearest Forest	:	NIL
22	Road & Highways	:	NH-34– 23.73KM;

**CO-ORDINATES :**

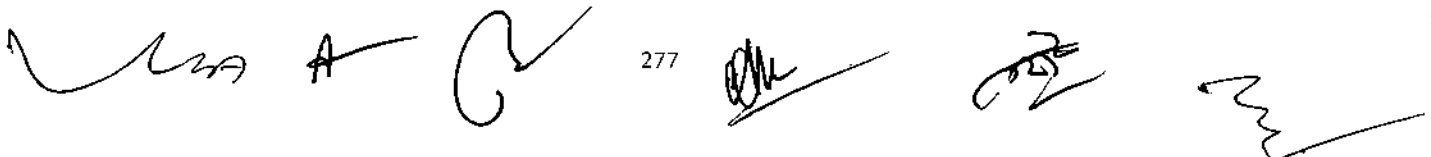
1	Latitude	From 24°35'43.97"N	To 24°35'43.64"N
2	Longitude	From 87°42'52.62"E	To 87°42'54.70"E

**LAND DETAILS :**

Mauza	Khata No.	Plot No.
Bastadih	07	122
Bastadih	16	123/P, 124/P, 128, 129
Asanjola	13	581/P

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by District Mining Office, Pakur, vide letter no. 1118/M dated 10.07.2021.
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2	CO	: The CO, Hiranpur, Pakur vide letter no. 93/RA, dated 26.02.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar & Register II.  The CO certificate also indicates presence of 05 houses with the population of 16 inhabitants. The Gram Sabha has mentioned in the letter that operation of the mine will not effect inhabitants as they are located at the distance of 310 m from the mine lease area.
3	DMO	: DMO, Pakur vide memo no. 1708/M, dated 25.09.2021 certified that one lease (7.09 acre) exists within 500 m radius from proposed project site and total lease area is less than 5 Ha.
4	DFO Wild Life	: Divisional Forest Officer, Hazaribagh vide letter no. 1951, dated 14.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division Vide letter no. 552, dated 17.03.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	: The DC-cum-District Magistrate, Pakur, vide letter no. 1412/ M, dated 12.08.21 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 10.03.2021
8	Mine Plan Approval	: Letter No. 1463/M, Pakur Dated 21.08.2021

**Working Details :**

1	Mining Method	: Mechanised, Jack Hammer, Drilling & Blasting to be used
2	Quarry Area	: 5 years-1.14 ha      Life of Mine - 1.42 ha
3	Waste Generation	: 5 years-7910 Cu.M      Life of Mine - 7910 Cu.M
4	Stripping Ratio	: 1:0.02
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 137m In AMSL
8	Ground Level Elevation	: 136 m In AMSL
9	Ultimate Working Depth	: 20m (136Amsl to 116Amsl)
10	Water Table	: 108 Above MSL
11	Topography of Mine	: Flat land

12	Explosive Requirement	:	16Kg/Day
13	Diesel/Fuel requirement	:	247 KL/year

**Production Details :**

Year	Production of stone (Cum)	Production of stone (Ton)	Removal of gritty Soil & Weathered rock in cum	Bench RL in Meters
1 <sup>st</sup>	36366	101825	3700	134-128
2 <sup>nd</sup>	36410	101948	2500	134-128
3 <sup>rd</sup>	36400	101920	1710	134-128
4 <sup>th</sup>	36410	101948	00	128-122
5 <sup>th</sup>	36426	101993	00	122-116
<b>Total</b>	<b>182012</b>	<b>509634</b>	<b>7910</b>	

**After years the production is proposed**

Year	Generation of waste/O.B in cum	Production of stone in (Cum)	Production of stone in (Ton)
6 <sup>th</sup> Year	00	36430	102005
7 <sup>th</sup> Year	00	36430	102005
8 <sup>th</sup> Year	00	36430	102005
9 <sup>th</sup> Year	00	36430	102005
10 <sup>th</sup> Year	00	36430	102005
<b>B.)Total production</b>		<b>182450</b>	<b>510025</b>
<b>Total</b>		<b>364164</b>	<b>1019659</b>

**Land Use**

SL	Pattern	Existing Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Mining Area	0.00	1.14	1.42	1.142	Water Body
2	Office /Store	0.00	0.00	0.00	0.00	
3	Crusher	0.00	0.00	0.00	0.00	Not Proposed
4	Road	0.00	0.04	0.02	0.02	Approach Road
5	Garland Drain	0.00	0.09	0.00	0.00	Back Filling

	with Dump					
6	Safety Zone	0.00	0.66	0.66	0.66	Plantation
7	Settling Tank	0.00	0.001	0.00	0.00	Settling Tank
8	Unutilized	2.105	0.18	0.00	0.00	
9	Utilized Area	0.00	1.93	0.00	0.00	
	<b>TOTAL</b>	<b>2.105</b>	<b>2.105</b>	<b>2.105</b>	<b>2.105</b>	

## ENVIRONMENT MANAGEMENT

### Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.66 ha	1056 trees @ 1600 trees per ha
2	Other Reclaimed Area	: NIL	NIL
3	Haul /Approach Road	: 0.64KM	320Plants on both sides – 2.5 m distance

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

### Solid Waste Management

- There is waste to be generated 7910 Cu.M. during life of mine which will be reclaimed after life of mine.

### Water Quality Management

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



- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

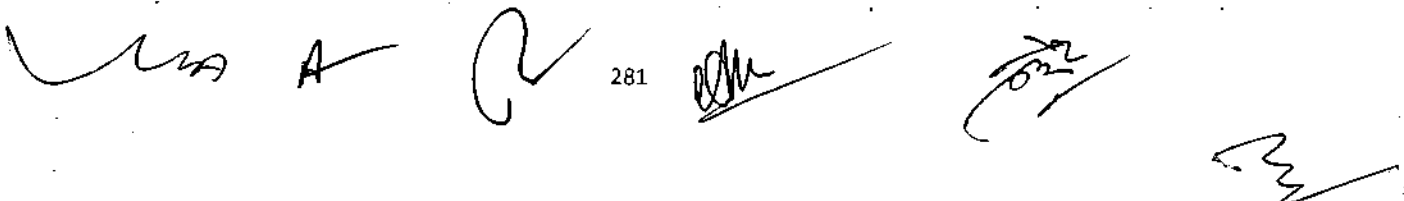
#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bastadih and Asanjola Stone Mine of M/s Ideal Construction, Village : Bastadih and Asanjola, Anchal : Hiranpur, Thana no. : 86 & 83, Dist. :

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Pakur, Jharkhand (2.105 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

3. Group Housing Project "Shaurya Kunj" of M/s Aditya Construction and Builders, Mouza : Pundag, P.S. : Jagarnathpur, Thana no. : 228, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/226936 /2021).

Name of the consultant : Gaurang Environmental Solutions Pvt. Ltd., Jaipur.

This is a new project which has been taken for appraisal on 22.02.2022.

The proposed project involves the construction of Group Housing Project "Shaurya Kunj" coming up at Mouza-Pundag, PS-Jagarnathpur, PS. No. 228, Plot No. 1685, 1689, 1690, 1691, 1692, 1694, 1695, 1696, 1697, Khata No. 49 & 141, District Ranchi, Jharkhand developed by Aditya Construction and Builders. The total plot area of the project is 10068.40 sq. m. and the Gross Built-up area envisaged for the project is 41,071.20 sq. m. Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.


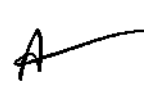




**Salient Features of the Project :**

Particulars	Details
Project address	Mouza-Pundag, PS-Jagarnathpur, PS. No. 228, Plot No. 1685,1689, 1690, 1691,1692, 1694, 1695, 1696, 1697, Khata No. 49 & 141, District Ranchi, Jharkhand
Type of project	Group Housing Project (Building & Construction)
Screening category	The project is categorized under 'B-2' under item 8(a) (Building and Construction)
Total Plot area	10068.40 sq. m
Gross Built up Area	41,071.20 sq. m
Ground Coverage	Permissible : 35% (3523.94 sq. m.) Proposed : 28.07 % (2825.72 sq. m.)
FAR	Permissible : 3.5 (35239.4 sq.m.) Proposed : 3.4 (34310.15sq. m.)
Green Area	1812.312 sq. m. (18 %)
Parking facilities	Required Parking : 566 ECU Provided Parking : 632 ECU
Power requirement & source	Connected load : 9008.5 KW Maximum demand : 50961.78 KW Source : 33 kV supply from nearest G5S.

<b>Power backup</b>	D.G Set Cumulative capacity : 1250 kVA 500 kVA : 2 nos. 250 kVA : 1 nos.
<b>Water requirement &amp; source</b>	Total Water requirement : 269 KLD Fresh Water : 194 KLD Recycled Water : 75 KLD Source : Ground Water
<b>Sewage treatment &amp; disposal</b>	Sewage treatment facility : STP of 350 KLD Capacity Waste water generated : 288KLD
<b>No. of RWH Pits</b>	04
<b>Project cost</b>	Rs. 48 crores

**Geographical coordinates :**

<b>Point -1</b>	<b>Point -2</b>
Latitude : 23°21'2.56"N Longitude : 85°15'46.73"E	Latitude : 23°21'2.95"N Longitude : 85°15'44.47"E
<b>Point -3</b>	<b>Point -4</b>
Latitude : 23°21'4.07"N Longitude : 85°15'44.78"E	Latitude : 23°21'4.00"N Longitude : 85°15'45.26"E
<b>Point 5</b>	<b>Point 6</b>
Latitude : 23°21'4.56"N Longitude : 85°15'45.81"E	Latitude : 23°21'5.73"N Longitude : 85°15'45.09"E
<b>Point 7</b>	<b>Point 8</b>
Latitude : 23°21'6.44"N Longitude : 85°15'45.66"E	Latitude : 23°21'7.99"N Longitude : 85°15'47.56"E
<b>Point 9</b>	<b>Point 10</b>
Latitude : 23°21'7.30"N Longitude : 85°15'49.45"E	Latitude : 23°21'6.40"N Longitude : 85°15'48.88"E
<b>Point 11</b>	<b>Point 12</b>
Latitude : 23°21'5.73"N Longitude : 85°15'47.66"E	Latitude: 23°21'4.74"N Longitude: 85°15'46.81"E
<b>Point 13</b> Latitude:23°21'4.17"N Longitude : 85°15'47.69"E	




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The proposed Project involves the construction of Group Housing Project with Dwelling units (492 nos.), and other facilities like Community hall, Retail shop and health club. etc.

Details are as under:-

S. No	Particulars	Details																				
1.	No of Blocks	3 Nos. (Block A, B, C)																				
2.	Floors & building height	As under:- <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Blocks</th> <th>Floors</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>Block A</td> <td>LB+ UB+GF+11th floor</td> <td>34.20 m</td> </tr> <tr> <td>Block B</td> <td>LB+ UB+GF+11th floor</td> <td>34.20 m</td> </tr> <tr> <td>Block C</td> <td>LB+ UB+GF+11th floor</td> <td>34.20 m</td> </tr> </tbody> </table>	Blocks	Floors	Height	Block A	LB+ UB+GF+11th floor	34.20 m	Block B	LB+ UB+GF+11th floor	34.20 m	Block C	LB+ UB+GF+11th floor	34.20 m								
Blocks	Floors	Height																				
Block A	LB+ UB+GF+11th floor	34.20 m																				
Block B	LB+ UB+GF+11th floor	34.20 m																				
Block C	LB+ UB+GF+11th floor	34.20 m																				
3.	Block wise Dwelling units	Total No of Flats: 492 Nos. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Blocks</th> <th>1 BHK</th> <th>2 BHK</th> <th>3 BHK</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Block A</td> <td>-</td> <td>24</td> <td>84</td> <td>108</td> </tr> <tr> <td>Block B</td> <td>96</td> <td>96</td> <td>-</td> <td>192</td> </tr> <tr> <td>Block C</td> <td>96</td> <td>96</td> <td>-</td> <td>192</td> </tr> </tbody> </table>	Blocks	1 BHK	2 BHK	3 BHK	Total	Block A	-	24	84	108	Block B	96	96	-	192	Block C	96	96	-	192
Blocks	1 BHK	2 BHK	3 BHK	Total																		
Block A	-	24	84	108																		
Block B	96	96	-	192																		
Block C	96	96	-	192																		
4.	Other facilities	<ul style="list-style-type: none"> <li>o Community hall (2 nos.) : 175.78 sq.m</li> <li>o Retail shop (3 nos.) : 162.39 sq.m</li> <li>• Block A (1 No) : 60.45 sq.m</li> <li>• Block B (1 No.) : 50.97 sq.m</li> <li>• Block C (1 No.): 50.97 sq.m</li> <li>Health club (3 nos.) : 162.39 sq.m.</li> </ul>																				

#### Land use Breakup

S. No	Particulars	Permissible	Proposed
1.	Total Plot area		10068.40. sq. m
2.	Gross Built up Area		41,071.20 sq.m
3.	FAR	3.5 (35239.4 sq.m.)	3.4 (34310.15sq. m.)
4.	Ground Coverage	35% (3523.94 sq. m.)	28.07 % (2825.71 sq. m.)
5.	Landscape Area	-	1812.312 sq. m. (18 %)
6.	Paved Area	-	5430.368 sq. m (53.93%)

#### Built Up Area Details:

	Block A	Block B	Block C

284

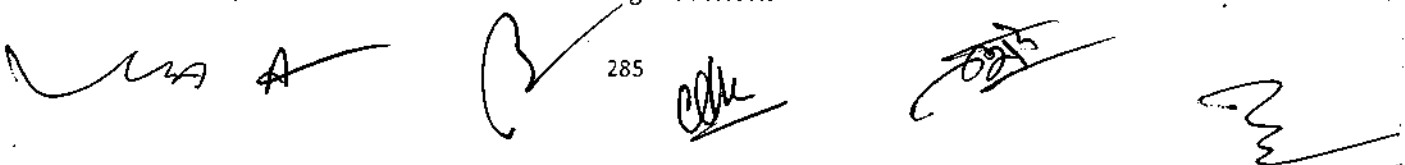
Floors	BUA (in sq.m)	FAR (In sq.m )	BUA (in sq.m)	FAR (In sq.m )	BUA (in sq.m)	FAR (In sq.m )
Lower Basement	1089.41	8.55	989.46		989.46	
Upper Basement	1080.86	411.14	980.91	376.32	980.91	376.32
Ground floor	1003.21	986.7	924.98	886.68	924.98	886.68
First floor	1024.24	986.7	947.29	886.68	947.29	886.68
Second floor	1024.24	986.7	947.29	886.68	947.29	886.68
Third floor	1024.24	986.7	947.29	886.68	947.29	886.68
Fourth floor	1024.24	986.7	947.29	886.68	947.29	886.68
Fifth floor	1024.24	986.7	947.29	886.68	947.29	886.68
Sixth floor	1024.24	986.7	947.29	886.68	947.29	886.68
Seventh floor	1024.24	986.7	947.29	886.68	947.29	886.68
Eight floor	1024.24	986.7	947.29	886.68	947.29	886.68
Nine floor	1024.24	986.7	947.29	886.68	947.29	886.68
Ten floor	1024.24	986.7	947.29	886.68	947.29	886.68
Eleven floor	1024.24	986.7	947.29	886.68	947.29	886.68
<b>Terrace</b>	<b>14440.12</b>	<b>12260.09</b>	<b>13315.5</b> <b>4</b>	<b>11016.48</b>	<b>13315.5</b> <b>4</b>	<b>11016.48</b>
<b>Total Gross BUA</b>	<b>41,071.20 sq.m</b>					
<b>FAR</b>	<b>34,310.15 sq.m</b>					

### STATUTORY CLEARANCE

- Airport Authority of India issued a height clearance NOC vide its NOC ID –RANC/EAST/B /120320/513687, dated 04/01/2021.
- Firefighting Department, Jharkhand has issued a Advisory vide its Letter No. – 2820/Tech /2020, dated 21/12/2020.
- The DFO, Wildlife Ranchi Vide Letter No. 840 Dated 25/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- The DFO, Ranchi Division vide Letter No. 2724 Dated 28/09/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Nagri, Ranchi vide Letter No. 1119 (ii) Dated 21/10/2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.
- Application for withdrawal of ground water has been submitted to CGWA vide application no. 21-4/810/JH/INF/2022 dated 21.02.2022.

During the presentation the following documents were sought :

- a) Green belt should be increased up to 15%.
- b) Water requirement to be revised and alongwith RWH.



- c) Calculation regarding offset of conventional with non conventional energy to be provided.
- d) Expenditure related to environmental management measures to be submitted.
- e) Contour map and evacuation plan to be submitted.

The PAs have submitted the above required undertaking and documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Group Housing Project "Shaurya Kunj" of M/s Aditya Construction and Builders, Mouza : Pundag, P.S. : Jagarnathpur, Thana no. : 228, Dist. : Ranchi, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – II alongwith the following specific conditions :

- I. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- II. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- III. All raw material to be stored only under covered shed.
- IV. PAs to ensure ZERO DISCHARGE for its process discharges.
- V. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- VI. Green belt and Green cover to be implemented as provided in layout plan.

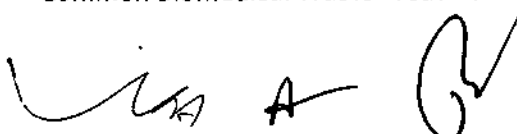
**4. Common Bio Medical Waste Treatment Facility of M/s Greenland Waste Management Enterprises (GWME) at Mauza : Belladanga, P.S. : Maheshpur, Dist : Pakur, Jharkhand.**

**(Proposal No : SIA/JH/MIS/71665/2022).**

**Name of the consultant : Gaurang Environmental Solutions Pvt. Ltd., Jaipur.**

This is a case of violation which has been taken for appraisal on 22.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SO5 vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

The project involves development of Common Bio Medical Waste Treatment Facility which is categorized under Item 7 (d) (a) (Bio-Medical Waste Treatment Facilities) of the Schedule-Gazette Notification dated 17th April 2015. The project falls under category "B". The total plot area of the unit is 5151.84 sq.m. The land for the proposed project is taken on lease in name of M/s Greenland Waste Management Enterprise (GWME) for the purpose of establishment of a Common Biomedical Waste Treatment Facility only.









**Salient Features Of The Project**

S. No	Items	Details			
1.	Project name	Proposed Common Bio Medical Waste Management Facility, Pakur			
2.	Project Proponent	M/s Greenland Waste Management Enterprise (GWME)			
3.	Project capacity	As below:			
		<b>S. No.</b>	<b>Particular</b>	<b>No.</b>	<b>Capacity</b>
		1	Incinerator	1	200 kg/hr
		2	Autoclave	1	600 lt/batch
		3	Shredder	2	30 kg/hr x 2 nos.
		4	ETP	1	10 KLD
		5	Sharp pit	1	-
		6	Ash pit	1	-
4.	Category	B			
5.	Project address				
	Khasra numbers	1958, 1964, 1963,1968,1962,1965			
	Village	Mauza Beliadanga			
	Tehsil	P.5. Maheshpur			
	District	Pakur			
	State	Jharkhand			
	Coordinates	<b>Latitude:</b> 24°29'23.08"N <b>Longitude:</b> 87°36'58.59"E			
6.	Nearest CBWTF	At Dhanbad ~220 km from the proposed site			
7.	Total Plot area	5151.84 sq.m. (1.27 acre)			
8.	Waste to be handled	4000 kg/day			
9.	No. of shifts	3			
10.	No. and types of vehicles for transportation/ collection of waste	12 nos. TATA V10: covered: 6 nos. + 1 (standby) TATA V30: covered: 4 nos. + 1 (standby)			
11.	Trips to be made per day	10 trips/ day			
12.	Environmental sensitivity				
13.	Nearest Town/City	Amrapora	5.69 km	WNW	
		Pakur	29.15 km	NE	
14.	Nearest railway station	Pakur R5	29.3 km	NE	

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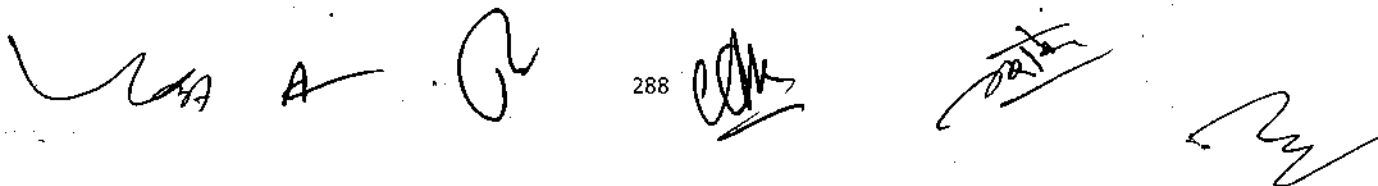
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15.	Nearest highway	Amrapara-Maheshpur-Moraroi road	330 mt.	N
		SH 18	5.54 km	WNW
16.	Nearest airport	Sidho Kanhu airport	45.46 km	SW
17.	Nearest river/ water body	Bansloi Nadi	1.0 km	N
		Soru Nala	7.1 km	NNE
		Tantiduba Nala	13.5 km	NNE
		Kandaha Nala	4.8 km	NE
		Telipokhar Nala	10.4 km	ESE
		Suriudi nadi	6.3 km	SSW
		Baru nadi	13.3 km	SSE
		Trighana Nadi	14.4. km	SW
		Makarkandi nala	12.1 km	W
18.	Water requirement	15.4 KLD Daily Fresh: 9.4 KLD Recycled : 6 KLD		
	Source:	Bore well at site		
19.	Waste water generation	7.8 KLD		
	Trade effluent	7 KLD		
	Domestic sewage	0.8		
	Treatment	Trade effluent: ETP Domestic sewage: Septic tank followed by soak pit		
20.	Power requirement	111 kVA (100 kW)		
	Source	JBVNL, Jharkhand		
21.	Back up source	DG set: 62.5 kVA (1 no.)		
22.	Transformer	100 kVA		
23.	Manpower	10 persons		
24.	Project cost	341.82 Lacs		

### STATUTORY CLEARANCE

- The DFO, Wildlife Hazaribagh Vide Letter No. 799 Dated 19/04/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
- The DFO, Pakur Forest Division vide Letter No. 88 Dated 08/02/2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
- The CO, Maheshpur vide Letter No. 66, Dated 25/01/2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyani & 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 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure V alongwith following specific condition :

- i. One month additional monitoring will be done during the month of March, 2022.
- ii. Certificate from competent authority is to be obtained stating that there is no other bio medical waste treatment facility within 75 km from this project.

5. Srirampur Stone Deposit of M/s Lakhmani Stone Product, Village : Srirampur, Thana : Pakur, Dist. : Pakur, Jharkhand (2.38 Ha).

(Proposal No. : SIA/JH/ MIN/248835 /2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 44,770 cu.m/annum or 1,11,925 TPA

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

This is a new project which has been taken for appraisal on 22.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details	
1	Project Name	Srirampur Stone Deposit	
2	Lessee:	M/S Lakhmani Stone Product Partner- Sri Ritin Lakhmani At P.O.- Sindhipara, PS – Pakur, District- Pakur Jharkhand.	
3	Lease Address	Village – Srirampur, Thana- Pakur, District – Pakur, State –Jharkhand.	
4	Lease Area	2.38 ha	Acres-5.87 Acres
5	Type of Land	Non Forest – Raiyati Land	
6	Project Cost	Rs. 30 Lakhs	
7	EMP Budget	Capital: 2.55 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	Rs. 0.60 Lakhs	
9	New or Expansion	New	
10	Mineable Reserves	Cu.m.: 4,48,580 cum	Tonnes: 11,21,450 tons
11	Mine Life	10.5 years	
12	Man power	25	
13	Water Requirement	6.5 KLD (Drinking: 0.25 KLD, Dust Suppression:2.62 KLD, Plantation: 3.63 KLD)	
14	Water Source	From Nearby villages by tankers	
15	DG Set / power	-	
16	Crusher	No crusher	
17	Nearest Water	Torai Nadi, approx. 8.0 km, NW direction	

	Body	
18	Nearest Habitation	: Srirampur, 0.5 km, SE
19	Nearest Rail Station	: Ngarnabi Railway station, approx. 6.0 km, East direction
20	Nearest Air Port	: Kazi Nazrul Islam Airport, Durgapur, approx. 122 km, SSW direction.
21	Nearest Forest	: PF near Mohanpur Village, approx 3.0 km, SE direction. PF near Dhangora Pahar, approx. 6.0 km, NW direction. PF near Khutigora Village, approx. 8.5 km West direction.
22	Road & Highways	: NH-114 A , approx. 5.40 km., North direction.

**CO-ORDINATES :**

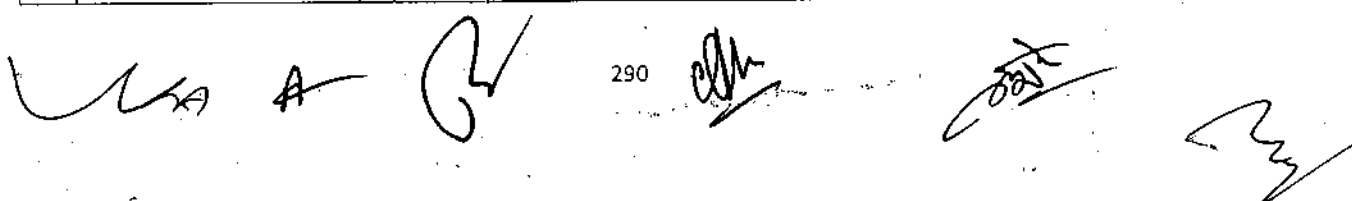
1	Latitude	From 24°35'21.09"N to 24°35'29.21"N
2	Longitude	From 87°48'29.57"E to 87°48'36.01"E

**LAND DETAILS :**

1	Srirampur	:	<b>KHATA NO.</b>	<b>PLOT NO.</b>
			23	837, 838, 839/P
			32	824, 825, 832, 833, 834, 835, 836, 854/P
			57	851/P, 852/P & 853/P

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	: The LOI has been issued by District Mining Office, Pakur vide letter no. 1111/M , dated 10-07-2021
2	CO	: The CO, Pakur vide letter no. 200 dated 26-02-2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.5. Khatiyani & Register II.
3	DMO	: DMO, Pakur vide memo no. 1494/ M dated 26.08.2021 certified that one lease (5.22 acre) exist within 500 m radius from proposed project site and total area is less than 5 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1958 dated 14-11-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division vide letter no. 934 dated 19-06-2021 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, Pakur vide letter no. 1412/M, dated 12.08.21 has informed that this project is part of District



		Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 17-02-2021
8	Mine Plan Approval	: Vide Memo no. 1700/M dated 24.09.2021

**Working Details :**

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years-1.289 ha      Life of Mine - 1.802 ha
3	Waste Generation	: 5 years- 7700 cu.m
4	Stripping Ratio	: 1: 0.17
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 52 AMSL to 58 AMSL
8	Ground Level Elevation	: 25 AMSL
9	Ultimate Working Depth	: 20AMSL (5mbgl )
10	Water Table	: 10 AMSL (15 mbgl)
11	Topography of Mine	: Area represents undulating topography
12	Explosive Requirement	: Class - III (special gelatin )& Class -VI explosive (detonator, electric detonator ) is used
13	Diesel/Fuel requirement	: 10 liter/day

**Production Details :**

Year	Production of Stone in Tonnes	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1st	83875.00	33,550	7700.00	56mRL - 50mRL
2nd	91300.00	36,520	Nil	50mRL - 44mRL
3rd	104775.00	41,910	Nil	50mRL- 38mRL
4th	111650.00	44,660	Nil	38 mRL - 26 mRL
5th	111925.00	44,770	Nil	56 mRL - 20mRL
<b>Total</b>	<b>503525.00</b>	<b>201,410</b>	<b>7700.00</b>	

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## Land Use

Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	Nil	1.289	1.802 (0.14ha area shall be backfilled & entire area after backfilling will be converted into water reservoir)
Road	0.015	0.003	0.003
Road Barrier	0.108	0.108	0.108
Proposed Dump	Nil	Nil	Nil
Safety Zone Plantation	Nil	0.464	0.464
<b>Total</b>	<b>0.123</b>	<b>1.864</b>	<b>2.380</b>
<b>Unused Area</b>	<b>2.257</b>	<b>0.516</b>	<b>0.000</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.464 ha	1160
2	Haul /Approach Road	:	0.05 km	50

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

### Solid Waste Management

- About 7700 cum waste (overburden) shall be generated. The OB consist of weathered rock intermixed with soil. The thickness of OB is approx. 1.0 m. The generated waste will be dump temporarily on the Northern side of the lease area (1<sup>st</sup> to 4<sup>th</sup> year). In 5<sup>th</sup> year, proposed waste dump will be removed & backfilled into mined out area.

### Water Quality Management

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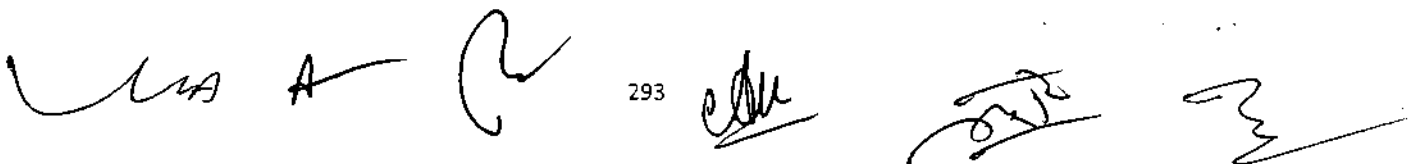
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be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

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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



- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Srirampur Stone Deposit of M/s Lakhmani Stone Product, Village : Srirampur, Thana : Pakur, Dist. : Pakur, Jharkhand (2.38 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

6. Bijaypur Stone Mine of M/s Shivam Stone Works, Village : Bijaypur, Thana : Pakuria, Dist. : Pakur, Jharkhand (1.94 Ha).

(Proposal No. : SIA/JH/ MIN/254938 /2022).

**Project Category:** B2 – Application for Environment Clearance

**EC Application for:** Proposed Capacity-50,285.55 cu.m/annum or 1,35,771 TPA

**Name of the consultant:** P & M Solution, Noida, UP.

This is a new project which has been taken for appraisal on 22.02.2022

**PROJECT and LOCATION Details:**

SI	Parameter	Details	
1	Project Name	: Bijaypur Stone Deposit	
2	Lessee:	: M/s Shivam Stone Works Partner- Sri Ajit Kumar Mehta & Sri Rajendra Mehta at Village – Domchanch, Thana – Domchanch, District- Koderma, Jharkhand	
3	Lease Address	: Village –Bijaypur, Thana- Pakuriya, District – Pakur, State –Jharkhand.	
4	Lease Area	: 1.94 ha	Acres-4.80 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 30 Lakhs	
7	EMP Budget	: Capital: 3.4 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.60 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 13,54,679 cum	Tonnes: 1,35,771 tons
11	Mine Life	: 10 years	
12	Man power	: 25	

13	Water Requirement	:	7.0 KLD (Drinking: 0.25 KLD, Dust Suppression:3.7 KLD, Plantation: 2.9 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Tripita Nadi, approx. 3.50 km, SW direction.
18	Nearest Habitation	:	Salgapara, 0.6 km, SE
19	Nearest Rail Station	:	Harinsing Railway station, , approx. 16.40 km, South direction
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, Durgapur, approx. 92.0 km, South direction.
21	Nearest Forest	:	PF near Bijaypur village, Approx. 2.30 km, WSW direction.
22	Road & Highways	:	SH-18, approx. 10.30 km, West direction.

**CO-ORDINATES :**

1	Latitude	From 24°23'10.80" N	To 24°23'17.20" N
2	Longitude	From 87°35'08.30" E	To 87°35'15.50" E

**LAND DETAILS :**

Khata no.	Plot no.
07	283

**STATUTORY CLEARANCES**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 594/M , dated 25-04-2020
2	CO	:	The CO, Pakuriya, Pakur vide letter no. 765 dated 19-10-2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R. S. Khatiyar & Register II.
3	DMO	:	DMO, Pakur vide letter no. 2325/ M Pakur dated 10.12.2020 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1890 dated 01-11-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 1214 dated 10-11-2015 certified that the distance of notified from the project site is more

		than 500 m.
6	DSR	: This project is part of District Survey Report (DSR) at Pakur district.
7	Gram Sabha	: on 19-10-2019
8	Mine Plan Approval	: Vide Memo no. 823/DDM on 09.12.2015

**Working Details :**

1	Mining Method	: Opencast Semi - Mechanized Mining method
2	Quarry Area	: 5 years-1.44 ha      Life of Mine - 1.44 ha
3	Waste Generation	: 5 years- 6,210 cu.m
4	Stripping Ratio	: 1: 0.1
5	Working Days	: 300
6	Benches: size & No	: 6m x 6m
7	Elevation of Mine	: 100 AMSL to 110 AMSL
8	Ground Level Elevation	: 100AMSL
9	Ultimate Working Depth	: 64 AMSL (36mbgl )
10	Water Table	: 60 AMSL (40 mbgl)
11	Topography of Mine	: Area represents a Flat
12	Explosive Requirement	: Explosive Requirement
13	Diesel/Fuel requirement	: Diesel/Fuel requirement

**Production Details :**

Year	Production of Stone		OB Waste (cum)	Bench RL in Meters
	(in Tonnes)	(in cum)		
1st	134384	49,771.85	6210.00	107mRL - 103 mRL
2nd	135667	50,247.04	0.0	103mRL - 94 mRL
3rd	135481	50,178.15	0.0	100 mRL - 94 mRL
4th	135455	50,168.52	0.0	100 mRL - 88 mRL
5th	135771	50,285.55	0.0	94mRL - 88 mRL
<b>Total</b>	<b>676758</b>	<b>250651.11</b>	<b>6210.00</b>	

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period	Conceptual stage (Ha)
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		(Ha)	
Quarry	Nil	1.44	1.44
Road	Nil	0.003	Nil
Proposed Dump	Nil	0.001	Nil
Safety Zone Plantation	Nil	0.26	0.50
<b>Total</b>	<b>0.0</b>	<b>1.704</b>	<b>0.000</b>
<b>Unused Area</b>	<b>1.94</b>	0.236	0.000
<b>Total leasehold area</b>	<b>1.94</b>	<b>1.94</b>	<b>1.94</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.50 ha	1250
2	Haul /Approach Road	: 0.20 km	200

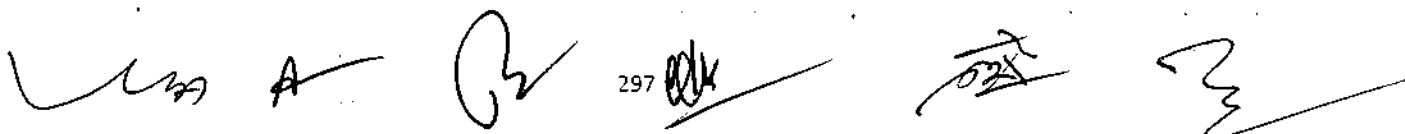
- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality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

### Solid Waste Management

- About 6210 cum waste (overburden) shall be generated. The OB consist of weathered rock intermixed with soil. The generated waste will be used in maintenance of mine road and village road.

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.






- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

#### **Air Quality Management**

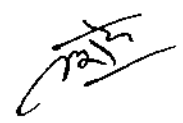
- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
-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

#### **Undertaking submitted affirming:**

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







- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Bijaypur Stone Mine of M/s Shivam Stone Works, Village : Bijaypur, Thana : Pakuria, Dist. : Pakur, Jharkhand (1.94 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

7. Baliapatra Stone Deposit of M/s Naviya Stone Works, Village : Baliapatra, Thana : Maheshpur, Dist. : Pakur, Jharkhand (1.157 Ha).

(Proposal No. : SIA/JH/ MIN/254940 /2022).

Project Category: B2 – Application for Environment Clearance

EC Application for: Proposed Capacity- 22830.40 cu.m/annum or 61642.08 TPA

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

This is a new project which has been taken for appraisal on 22.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Baliapatra Stone Deposit
2	Lessee:	: M/S Naviya Stone Works Partner- 1. Sri Ashish Kumar Dutta, S/o Bankim Chandra Dutta Address- At Netaji Nagar, Ward No. 05, Nalhati, District- Birbhum, West Bengal 2. Sri Tazel Ali, S/o Late Sayed Ali At village – Chhayapalli, P.O – Khanpur, Nalhatti, District- Birbhum, West Bengal
3	Lease Address	: Village – Baliapatra, Thana- Maheshpur, District – Pakur, State – Jharkhand.
4	Lease Area	: 1.157 ha Acres-2.86 Acres
5	Type of Land	: Non Forest – Raiyati Land
6	Project Cost	: Rs. 25 Lakhs
7	EMP Budget	: Capital: 5.66 Lakhs Recurring: 4.17 Lakh / year
8	CSR / CER Budget	: Rs. 0.50 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.m.: 227428.10 cum Tonnes: 614055.88 tons
11	Mine Life	: 10.00 years
12	Man power	: 43
13	Water Requirement	: 11.50 KLD(Drinking: 0.43 KLD, Dust Suppression: 7.13 KLD, Plantation: 3.66 KLD)
14	Water Source	: From Nearby villages by tankers

15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Ganga River, 50.00 km, E direction
18	Nearest Habitation	:	Baliapatra, 0.7km
19	Nearest Rail Station	:	Chatra Railway station, 17km
20	Nearest Air Port	:	Durgapur Airport, 100km
21	Nearest Forest	:	Protected Forest near Bijaypur Village, approx. 19 km, W side
22	Road & Highways	:	SH-7, Approx. 10.50 km. in East direction NH-14, Approx. 13.40 km. in SE direction

#### CO-ORDINATES

1	Latitude	From 24°22'28.9477" N	To 24°22'32.9534"N
2	Longitude	From 87°44'34.7955"E	To 87°44'40.8422"E

#### LAND DETAILS

			Khaa no	Plot no.
1	Baliapatra	:	08	390, 392
			18	393(P)
			19	131
			20	136, 132, 388

#### STATUTORY CLEARANCES

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1906/M, dated 30.10.2019
2	CO	:	The CO, Maheshpur vide letter no. 627, dated 26.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyān & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1790M, dated 08.10.2021 certified that two lease (4.63 Acres / 2.55 acres) exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1930 dated 14.09.2019 certified that the National Park & Sanctuary is not within 10 km

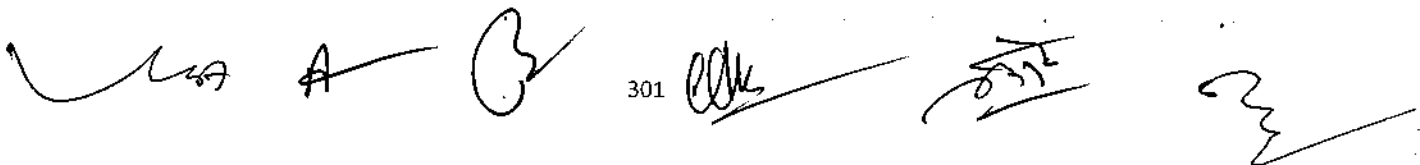
		:	from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 1166 dated 28.09.2019 certified that the distance from the nearest Reserved Forest / Protected Forest from the project site is more than 250 m.
6	DSR	:	The Project is mentioned in District Survey Report (DSR), Pakur.
7	Gram Sabha	:	on 22-08-2019
8	Mine Plan Approval	:	Vide Memo no. 311/M dated 19.10.2020

### Working Details

1	Mining Method	:	Opencast Semi - Mechanized Mining method.
2	Quarry Area	:	5 years- 0.680 ha <span style="float: right;">Life of Mine - 10.00 Year</span>
3	Waste Generation	:	5 years- 10919.65 cu.m
4	Stripping Ratio	:	1: 0.03
5	Working Days	:	300
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	69 AMSL to 76 AMSL
8	Ground Level Elevation	:	56 AMSL
9	Ultimate Working Depth	:	45 AMSL (11 mbgl)
10	Water Table	:	42 AMSL (14 mbgl)
11	Topography of Mine	:	Area represents a uneven
12	Explosive Requirement	:	42 kg slurry explosive
13	Diesel/Fuel requirement	:	10 liter/day

### Production Details

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	61477.92	22,769.60	4867.40	75mRL - 69 mRL
2 <sup>nd</sup>	61601.04	22,815.20	1200.80	74 mRL - 63 mRL
3 <sup>rd</sup>	61642.08	22,830.40	1201.60	69 mRL - 63 mRL
4 <sup>th</sup>	61583.09	22,808.55	1200.45	69 mRL - 57 mRL
5 <sup>th</sup>	61567.70	22,802.85	1200.15	63 mRL - 57 mRL



Total	307871.83	114,026.60	9670.40	
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#### Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	0.0	0.680	0.746 (0.113 ha area shall be backfilled & entire area after backfilling will be converted into water reservoir)
Road	0.060	0.002	0.002
Proposed Dump	Nil	0.066	Nil
Safety Zone Plantation	Nil	0.409	0.409
<b>Total</b>	<b>0.060</b>	<b>1.157</b>	<b>1.157</b>
<b>Unused Area</b>	<b>1.097</b>	<b>0.000</b>	<b>0.000</b>
<b>Total leasehold area</b>	<b>1.157</b>	<b>1.157</b>	<b>1.157</b>

#### ENVIRONMENT MANAGEMENT

##### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.409 ha	1030
2	Haul /Approach Road	:	0.10 km	800

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

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### **Solid Waste Management**

- Stone is exposed in some parts of the area and small soil cover is observed in this area. The small quantity of waste will be dumped in the Lease area with suitable precaution in the plan period and will be used for backfilling in plan and conceptual periods. Though there is no huge soil. Stone will be sent to the crusher and used exclusively on Government and other Infrastructural Works. The stone may also be exported with all formalities.

### **Water Quality Management**

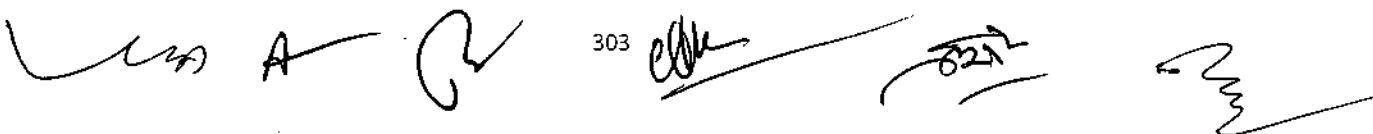
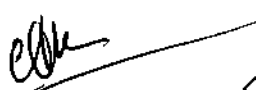
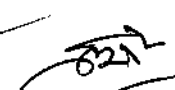

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

### **Air Quality Management**

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

### **Undertaking submitted affirming:**

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.

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9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.m.: 474392 cum Tonnes: 1328298 tons
11	Mine Life	:	12 years 3 months
12	Man power	:	37
13	Water Requirement	:	6.20 KLD (Drinking: 0.37KLD, Dust Suppression:1.20 KLD, Plantation:4.59 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Torai River, 3.00km, SSW direction
18	Nearest Habitation	:	Siulidanga, 0.25 km
19	Nearest Rail Station	:	Kotalpukur Railway station, 8.60 km , NE direction
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, 130.0 km, SSW direction
21	Nearest Forest	:	Protected Forest near Belpahari Village, approx. 1.50 km, NW side Protected Forest near Dhapahari Village, 2.0 km, W direction
22	Road & Highways	:	NH-114A , Approx. 1.80 km, SW direction

**CO-ORDINATES :**

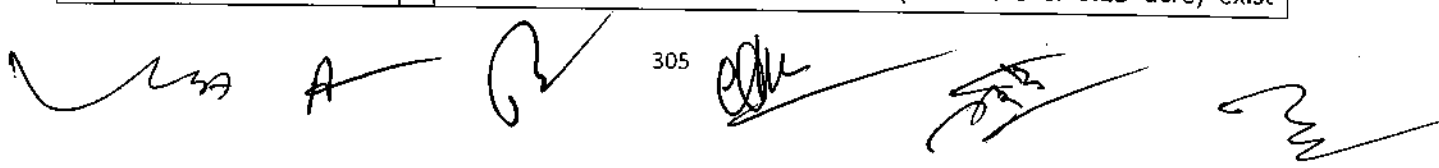
1	<b>Latitude</b>	From 24°41'31.11"N	To 24°41'38.35"N
2	<b>Longitude</b>	From 87°45'16.16"E	To 87°45'26.13"E

**LAND DETAILS :**

1	Siulidanga	:	<b>KHATA NO.</b>	<b>PLOT NO.</b>
			06	83/P, 84/P, 86, 87, 88, 91 & 94/P

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 755/M, dated 14-06-2021
2	CO	:	The CO, Hiranpur vide letter no. 306, dated 28-07-2020 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyon & Register II.
3	DMO	:	DMO, Pakur vide letter no. 1779/M, Pakur dated 08-10-2021 certified that 02 other lease area (4.25 acre & 6.25 acre) exist



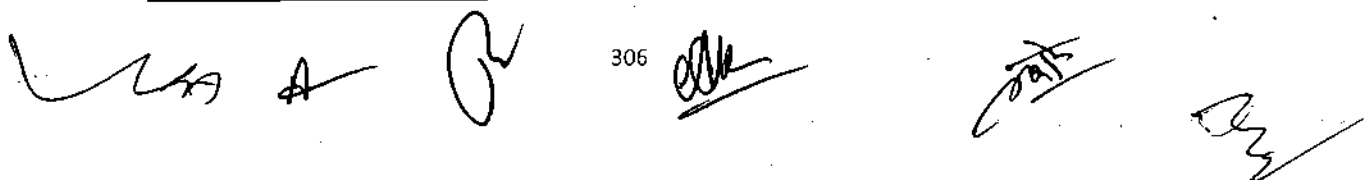
		within 500 m radius from proposed project site and total area is 6.86 Ha.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 735, dated 10-04-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	: DFO, Pakur Forest Division, vide letter no. 340, dated 19-02-2021 certified that the distance of RF/PF from the project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, Pakur vide letter no 1412/M dated 12/08/2021 has informed that this project is part of District Survey Report (DSR) at Pakur district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: on 12-09-2019
8	Mine Plan Approval	: Vide Memo no. 1239/M dated 22.07.2021

**Working Details :**

1	Mining Method	: Opencast Mechanized Mining method
2	Quarry Area	: 5 years-1.60 ha      Life of Mine – 1.80 ha
3	Waste Generation	: 5 years-11975.0 cu.m
4	Stripping Ratio	: 1:0.02
5	Working Days	: 300
6	Bench: size & No	: 6m x 6m
7	Elevation of Mine	: 60 AMSL to 59 AMSL
8	Ground Level Elevation	: 60 AMSL
9	Ultimate Working Depth	: 36 AMSL (24 m bgl)
10	Water Table	: 25 AMSL (35 m bgl)
11	Topography of Mine	: The ground area is rising from SW to NE forming undulatory topography
12	Explosive Requirement	: 50 kg slurry explosive
13	Diesel/Fuel requirement	: 9 liter/day

**Production Details (plan period)**

Year	Production of Stone in Tonnes	Production of stone in cum	Generation of Waste/O.B (cum)
1st	107551	38411.07	4968
2nd	107926	38545	4095



3rd	107296	38320	2912
4th	108203	38643.92	00
5th	108192	38640	00
<b>Total Production</b>	<b>539168</b>	<b>192559.99</b>	<b>11,975</b>

#### Land Use

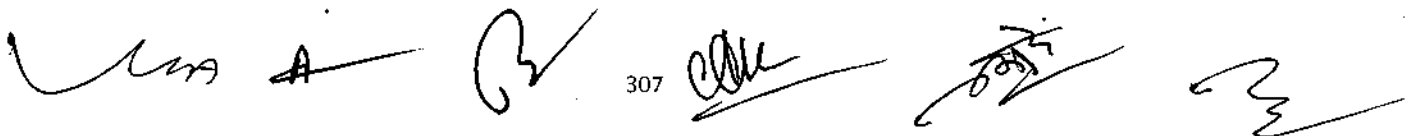
Pattern of Utilization	Existing (Ha)	Plan period(Ha)	Conceptual stage (Ha)
Quarry	-	1.6	1.8(0.40Ha area will be reclaimed & 1.40Ha rest area will be left as water reservoir)
Haul Road	0.00	0.05	0.02
Proposed Crusher	-	-	-
Safety Zone Plantation	-	0.16	0.16
Dump with Parapet wall & Garland Drain	-	0.02	Nil
Plantation along Haul Road	-	0.43 (outside lease area)	0.43 (outside lease area)
Reclaimed Area		-	0.40
<b>Total Area in use</b>	<b>0.00</b>	<b>1.83</b>	<b>1.98</b>
Unused Area	2.607	0.777	0.627
<b>Total Applied Area</b>	<b>2.607</b>	<b>2.607</b>	<b>2.607</b>

#### ENVIRONMENT MANAGEMENT

##### Green Belt Development

S.No.	Location	Area/Length	No. of Trees
1	Safety Zone and haul road	: 0.59 ha	1480
2	Approach Road	: 0.5 km	50

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



### Solid Waste Management

- Waste Generation will be 11975.0 cum (dump area- 0.02 ha in plan period) during the plan period. During Plan period gritty soil removed will be dumped at eastern part of the area with suitable precautions like parapet wall and garland drain. The small quantity of the removed gritty soil would also be used for road dressing and plantation. At conceptual period dump will be removed & will be used for backfilling.

### Water Quality Management





- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 5m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

### Air Quality Management

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- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
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- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

### Undertaking submitted affirming:

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



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

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.

9. Rechadih Brick Clay Deposit of M/s M.M.B. Bricks, Village : Rechadih, P.O. : Boram, P.S. : Boram, Dist. : East Singhbhum, Jharkhand (1.05 Ha).

(Proposal No. : SIA/JH/ MIN/247242 /2021).

Project Category: B2 – Application for Environment Clearance

EC Application for: Production capacity: 1,627 cum/season or 2,928.6 MT/season of brick earth clay

Name of the consultant: P & M Solution, Noida

This is a new project which has been taken for appraisal on 22.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Rechadih Brick Earth Deposit
2	Lessee:	: M/s MMB Bricks (Maraka-MMB) Prop.- Sri Budhu Mahto Village- Boram, P.S. & P.O- Boram, District- East Singhbhum, State- Jharkhand
3	Lease Address	: Village – Rechadih, Thana.- Boram, District - East Singhbhum,

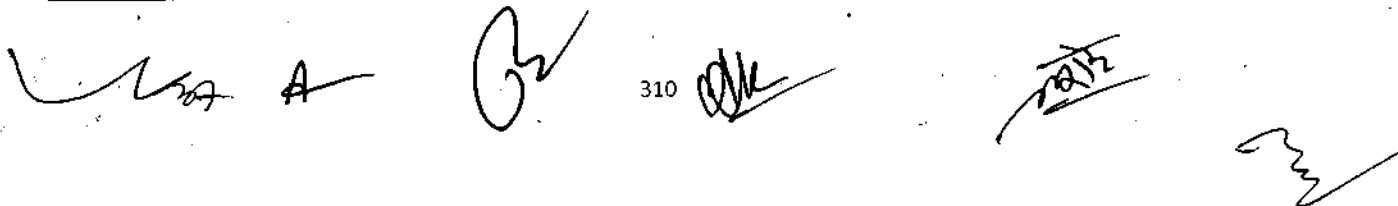
		Jharkhand	
4	Lease Area	: Ha: 1.05 ha	Acres: 2.60 Acres
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 15 Lakhs	
7	EMP Budget	: Capital: 3.10 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	: Rs. 0.30 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 29,129 Cu. M.	Tonnes: 37,867.70 MT
11	Mine Life	: 5 seasons/year	
12	Man power	: 26	
13	Water Requirement	: 7.20 KLD (Drinking: 0.26 KLD, Dust Suppression: 4.47 KLD, Plantation: 2.40 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: -	
16	Crusher	: No Crusher	
17	Nearest Water Body	: Nangasai Nadi, Approx. 1.80 km, E Side	
18	Nearest Habitation	: Rechadih, 0.70 km	
19	Nearest Rail Station	: Biramdih Railway Station, 13.00 km, NW direction.	
20	Nearest Air Port	: BirsaMunda Airport, Ranchi, 105.90 km, W direction.	
21	Nearest Forest	: Hatidih Protected Forest, approx. 2.0 km WNW direction. Lailam PF, approx. 9.5 km S direction. Protected Forest near Bareda village, approx. 9.50 km WSW direction. Protected Forest near Kuiani village, approx. 6.50 km SW direction.	
22	Road & Highways	: NH-116B, approx, 10.20 km towards NE direction NH-18, approx, 13.90 km towards SW direction.	

#### CO-ORDINATES

1	Latitude	From 22°57'56.65"N	To 22°57'59.80"N
2	Longitude	From 86°17'19.85"E	To 86°17'25.56"E

#### LAND DETAILS

Khata no.	Plot no.
04	224 (P)
35	525(P), 526(P)
60	522(P), 524(P), 527(P), 528(P), 744(P)



**STATUTORY CLEARANCES :**

1	LOI/Lease docs	: The land argeement has been made .
2	CO	: The CO, Boram, East Singhbhum vide letter no. 300 dated 30-08-2018 has mentioned the plot of the project is not recorded as "Jangle Jhari" in Khatiyen.
3	DMO	: DMO, East Singhbhum vide letter no. 128 dated 28.01.2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Dalma Elephant Project, Jamshedpur vide letter no. 96 dated 18-01-2021 certified that the National Park is not within 10 km from project site and also certified that the project site is located outside of Sanctuary (Dalma Wildlife Sanctuary) & ESZ.
5	DFO Forest Distance	: DFO Jamshedpur Forest Division vide letter no. 3233, dated 11-12-2021 certified that the distance of RF/PF from the Project site is more than 250 m.
6	DSR	: The DC, East Singhbhum, Jamshedpur vide letter no.1499/M dated 06/12/2021 has informed that this project is part of District Survey Report (DSR) at East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 26-08-2018
8	Mine Plan Approval	: Vide letter no. 37/G dated 05/02/2022

**Working Details**

1	Mining Method	: Open Cast manual method	
2	Quarry Area	: 5 years-0.436 ha	Life of Mine - 0.436ha
3	Waste Generation	: 5 years-Nil	Life of Mine - Nil
4	Stripping Ratio	: 1: 0.0	
5	Working Days	: 150	
6	Benches: size & No	: 1m x 1m	
7	Elevation of Mine	: 130 AMSL to 131 AMSL	
8	Ground Level Elevation	: 130 AMSL	
9	Ultimate Working Depth	: 128 AMSL (2 mbgl)	
10	Water Table	: 120 AMSL (10 mbgl)	
11	Topography of Mine	: Area represents flat topography	
12	Explosive Requirement	: Not applicable	

13	Diesel/Fuel requirement	:	3 litre/day
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**Production Details :**

Year	Total excavation of brick earth in cum	Total excavation of brick earth
		MT=Cum x 1.8
1 <sup>st</sup>	1627.00	2928.60
2 <sup>nd</sup>	1536.00	2764.80
3 <sup>rd</sup>	1620.00	2916.00
4 <sup>th</sup>	1603.00	2885.40
5 <sup>th</sup>	1416.00	2548.80
<b>Total</b>	<b>7802.00</b>	<b>14043.60</b>

**Land Use**

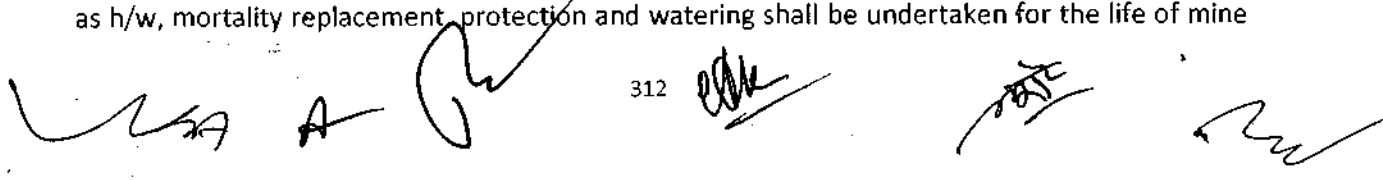
Pattern of Utilization	Existing (Ha)	Plan period (Ha)
Quarry	Nil	0.436
Brick Kiln	Nil	0.15
Green Belt	Nil	0.074
Top soil storage	Nil	0.001
Storage of casted brick	Nil	0.01
<b>Total</b>	Nil	<b>0.671</b>
<b>Unused Area</b>	<b>1.05</b>	<b>0.379</b>
<b>Total Area</b>	<b>1.05</b>	<b>1.05</b>

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.074 ha	200
2	Haul /Approach Road	: 0.60 km	600

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





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

#### **Solid Waste Management**

- Nil

#### **Water Quality Management**

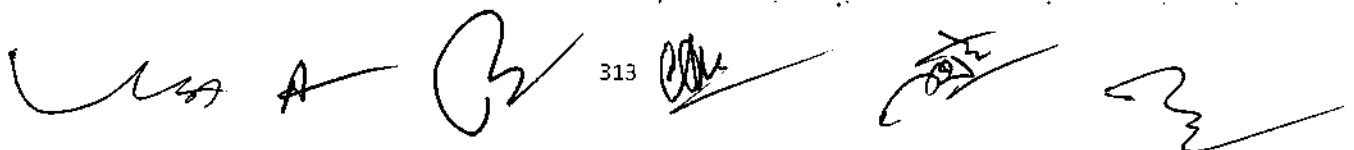
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall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

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.

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5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 15 Lakhs
7	EMP Budget	:	Capital: 2.27Lakhs Recurring: 2.97 Lakh / year
8	CSR / CER Budget	:	Rs. 0.30 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.:20880.00Cu. M. Tonnes:27144.00MT
11	Mine Life	:	11 Seasons
12	Man power	:	11
13	Water Requirement	:	5.70 KLD (Drinking:0.12KLD,Dust Suppression:2.40KLD, Plantation:3.18KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No Crusher
17	Nearest Water Body	:	SonaNadi, Approx. 2.50km, ESE Side Nengsai River, Approx. 6.80km, NNE Side
18	Nearest Habitation	:	Kadamjora, 0.70km
19	Nearest Rail Station	:	Biramdih Railway Station, approx. 17.60 km, WNW Side
20	Nearest Air Port	:	BirsaMunda Airport, Ranchi, approx. 111.00 km, W side
21	Nearest Forest	:	Hathiadih Protected Forest, Approx. 8.10 km W direction Kherua Protected Forest, Approx. 8.20 km SSE direction Protected Forest near Nilmohanpur, Approx. 6.30 km NNE direction
22	Road & Highways	:	NH-116B, approx, 6.40 km towards N direction SH-5, approx., 18.80 km towards ESE direction

#### CO-ORDINATES







1	Latitude	From 22°58'14.70"N	To 22°58'19.79"N
2	Longitude	From 86°20'54.12"E	To 86°20'59.77"E

#### LAND DETAILS :

		Khata no	Plot no
1	Nachibera	91	607, 608 & 619
		92	604 & 605

#### STATUTORY CLEARANCES :

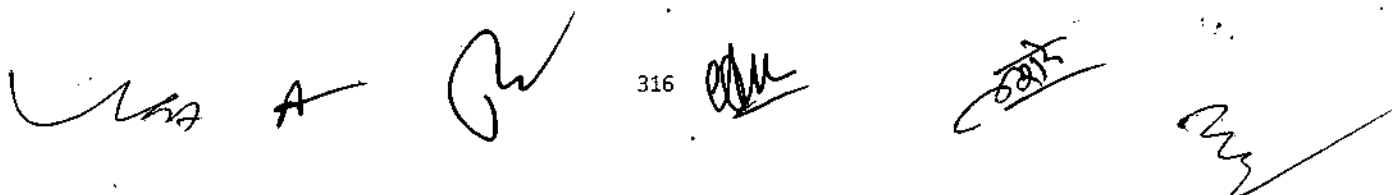
1	LOI/Lease docs	:	The land argeement has been made on 27.07.2021
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2	CO	: The CO, Boram vide letter no. 434, dated 04/09/2021 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	: DMO, East Singhbhum vide letter no. 1352/M dated 28-10-2021 certified that no other lease exist within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1599 dated 11/10/2021 certified that the National Park is not within 10 km from project site and also certified that the project site is located outside of Sanctuary (Dalma Wildlife Sanctuary) & ESZ.
5	DFO Forest Distance	: DFO Jamshedpur Forest Division vide letter no. 2642, dated 20/10/2021 certified that the distance of RF/PF from the Project site is more than 250 m.
6	DSR	: The DC-cum-District Magistrate, East Singhbhum vide letter no-1499/ M dated 06-12-2021 has informed that this project is part of District Survey Report (DSR) at East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	: On 28-08-2021
8	Mine Plan Approval	: Vide letter no. 706/G dated 07/10/2021

#### Working Details

1	Mining Method	: Open Cast manual method
2	Quarry Area	: 5 years-0.34ha Life of Mine - 0.76ha
3	Waste Generation	: 5 years-Nil Life of Mine - Nil
4	Stripping Ratio	: 1: 0.0
5	Working Days	: 200
6	Benches: size & No	: 1m x 1m
7	Elevation of Mine	: 252AMSL to 253AMSL
8	Ground Level Elevation	: 252 AMSL
9	Ultimate Working Depth	: 251AMSL (2bgl)
10	Water Table	: 243 AMSL (10 bgl)
11	Topography of Mine	: Area represents flat topography
12	Explosive Requirement	: Not applicable
13	Diesel/Fuel requirement	: 3 litre/day



Production Details

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.3
1 <sup>st</sup>	1200.00	600000	1560.00
2 <sup>nd</sup>	1200.00	600000	1560.00
3 <sup>rd</sup>	1200.00	600000	1560.00
4 <sup>th</sup>	1200.00	600000	1560.00
5 <sup>th</sup>	1200.00	600000	1560.00
<b>Total</b>	<b>6000.00</b>	<b>3000000</b>	<b>7800.00</b>

Land Use

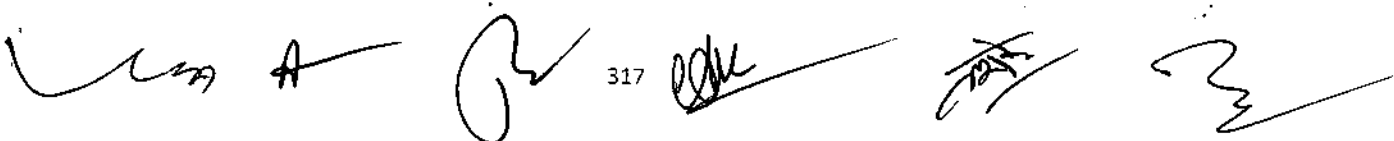
Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	Nil	0.34	0.76 (Cultivable Land)
Road	Nil	0.01	Nil
Safety Barrier	Nil	0.40	0.40
<b>Total</b>	<b>0.0</b>	<b>0.75</b>	<b>1.16</b>
<b>Unused Area</b>	<b>1.16</b>	<b>0.41</b>	<b>0.000</b>
<b>Total leasehold Area</b>	<b>1.16</b>	<b>1.16</b>	<b>1.16</b>

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.40 ha	1000
2	Haul /Approach Road	: 0.06 km	60

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such



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

#### **Solid Waste Management**

- Nil

#### **Water Quality Management**

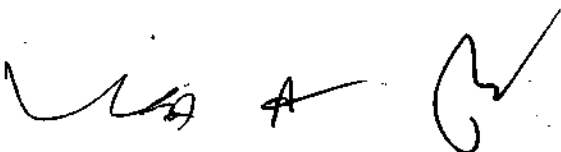
- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall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

#### **Air Quality Management**

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

#### **Undertaking submitted affirming:**

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



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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Kadamjora Brick Soil Mine of M/s N.K.M. Enterprises, Village : Kadamjora, Thana : Patamda, Dist. : East Singhbhum, Jharkhand (1.16 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

**11. Darkhuli Brick Earth Deposit of M/s Suchi Bricks, Village : Darkhuli, Thana : Ghatshila, Thana No. : 631, Dist. : East Singhbhum, Jharkhand (1.679 Ha).**

(Proposal No. : SIA/JH/MIN/254177/2022).

**Project Category: B2 – Application for Environment Clearance**

**EC Application for: Production capacity: 1200.00 cum/season or 1560 T/season of brick earth clay**

**Name of the consultant: P & M Solution, Noida**

This is a new project which has been taken for appraisal on 22.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Darkhuli Brick Earth Deposit
2	Lessee:	: M/S Suchi Bricks Proprietor - Shri Sudipta Kumar Giri Village-Nutandihi, P.O-Jhargram ,P.S-Jhargram, Dist-West Midnapore, State- West Bengal
3	Lease Address	: Village: Darkhuli, Thana.- Ghatshila, District- East Singhbhum, Jharkhand

Handwritten signatures and initials are present at the bottom of the page, including a large signature on the left, a signature with the number 319 in the center, and several other signatures on the right.

4	Lease Area	:	Ha:1.679 ha	Acres:4.15 Acres
5	Type of Land	:	Non Forest – Raiyati Land	
6	Project Cost	:	Rs. 20 Lakhs	
7	EMP Budget	:	Capital: 4.65 Lakhs	Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.40 Lakhs	
9	New or Expansion	:	New	
10	Mineable Reserves	:	Cu.M.: 21020.00 Cu. M.	Tonnes: 27326.00 MT
11	Mine Life	:	17.51 years or 18 years	
12	Man power	:	13	
13	Water Requirement	:	11.50 KLD (Drinking:0.13 KLD, Dust Suppression:5.00 KLD, Plantation:6.00 KLD)	
14	Water Source	:	From Nearby villages by tankers	
15	DG Set / power	:	-	
16	Crusher	:	No Crusher	
17	Nearest Water Body	:	Subarnekhha Nadi, Approx. 4.50 km, S Side	
18	Nearest Habitation	:	Darkhuli, 0.60 km	
19	Nearest Rail Station	:	Chakulia Railway Station, approx. 27.00 km, NW Side	
20	Nearest Air Port	:	Birsra Munda Airport, Ranchi, approx. 190.00 km, W side	
21	Nearest Forest	:	Protected Forest near Lodhabani village, Approx 8.5 km towards NE direction Protected Forest near Luti jhuni, Approx 9.0 km towards SSW direction	
22	Road & Highways	:	NH-49, approx, 4.5 km towards N direction	

**CO-ORDINATES :**

1	Latitude		From 22°14'48" N	To 22°14'56" N
2	Longitude		From 86°47'53" E	To 86°47'59" E

**LAND DETAILS :**

			Khata No.	Plot no.
1	Darkhuli	:	01	9
			10	132
			12	88
			27	144 & 143
			41	86
			57	85
			60	53,87



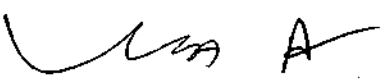

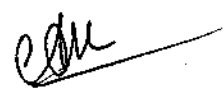


	62	50, 84, 145 & 163
	72	89
	79	161
	89	83

**STATUTORY CLEARANCES :**

1	LOI/Lease docs	:	The land agreement has been made on 19.10.2020
2	CO	:	The CO, Boharagora vide letter no. 706, dated 08/10/2021 has mentioned the plot of the project is not recorded as "Jangle Jhari" in R.S. Khatiyar.
3	DMO	:	DMO, East Singhbhum, Jamshedpur vide letter no. 1518/M on 11.12.2021 certified that no other lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1472 dated 21/09/2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Forest Division vide letter no. 1986, dated 01/09/2021 certified that the distance of reserved / protected forest from the Project site is more than 250 m.
6	DSR	:	The DC, East Singhbhum, Jamshedpur vide letter no. 1499, dated 06.12.2021 has informed that this project is part of District Survey Report (DSR) at East Singhbhum district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	On 09-12-2020
8	Mine Plan Approval	:	Vide memo no. 776/G dated 23/11/2021

**Working Details :**

1	Mining Method	:	Open Cast manual method
2	Quarry Area	:	5 years-0.300 ha Life of Mine - 0.76Sha
3	Waste Generation	:	5 years-Nil Life of Mine - Nil
4	Stripping Ratio	:	1: 0.0
5	Working Days	:	200
6	Benches: size & No	:	1m x 1m
7	Elevation of Mine	:	48 AMSL to 60 AMSL
8	Ground Level Elevation	:	48 AMSL
9	Ultimate Working	:	46 AMSL (16 bgl)



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	Depth		
10	Water Table	:	40 AMSL (20 bgl)
11	Topography of Mine	:	Area represents flat topography
12	Explosive Requirement	:	Not applicable
13	Diesel/Fuel requirement	:	3 litre/day

**Production details :**

Year	Total excavation of brick earth in cum	Number of bricks	Total excavation of brick earth
			MT=Cum x 1.3
1 <sup>st</sup>	1200.00	600000	1560.00
2 <sup>nd</sup>	1200.00	600000	1560.00
3 <sup>rd</sup>	1200.00	600000	1560.00
4 <sup>th</sup>	1200.00	600000	1560.00
5 <sup>th</sup>	1200.00	600000	1560.00
<b>Total</b>	<b>6000.00</b>	<b>3000000</b>	<b>7800.00</b>

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarrying	Nil	0.300	0.765 (reclaimed as cultivated land and handed over to the concern raiyat)
Storage of casted bricks	Nil	0.100	Storage of casted bricks within quarry
Plantation at safety zone	Nil	0.694	0.694
Proposed kiln	Nil	0.220	0.220
<b>Total Area</b>	<b>1.679</b>	<b>1.314</b>	<b>1.679</b>

**ENVIRONMENT MANAGEMENT  
Green Belt Development**

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.694 ha	1740
2	Haul /Approach Road	: 0.02 km	260

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

#### **Solid Waste Management**

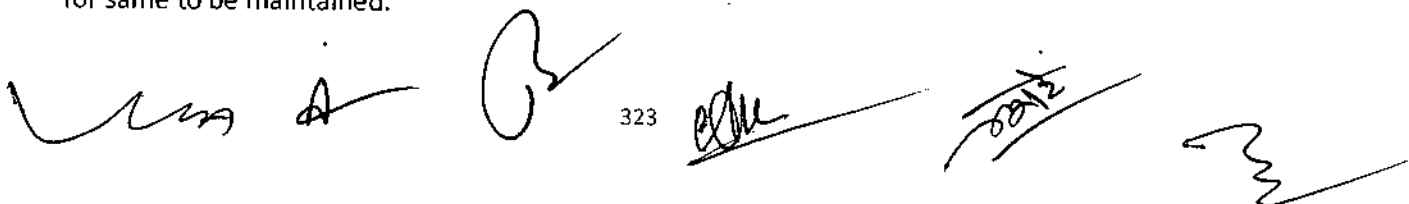
- Nil

#### **Water Quality Management**

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

#### **Air Quality Management**

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



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

**Undertaking submitted affirming:**

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Darkhuli Brick Earth Deposit of M/s Suchi Bricks, Village : Darkhuli, Thana : Ghatshila, Thana No. : 631, Dist.: East Singhbhum, Jharkhand (1.679 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

**12. Sundarpahari Stone Deposit of Md. Joshim Ali, Village : Sundarpahari, Thana : Pakur(M), Dist. : Pakur, Jharkhand (1.893 Ha) .**

(Proposal No. : SIA/JH/MIN/72416 /2022).

**Project Category: B1 – Application for ToR**

**EC Application for: Proposed Capacity- 51,003.22 cu.m/annum or 1,27,508.05 TPA**

**Name of the consultant: P & M Solution, Noida, UP.**

This is a new project which has been taken for appraisal on 22.02.2022

**PROJECT and LOCATION Details:**




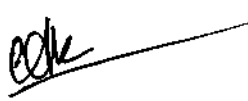


Sl	Parameter	Details
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1	Project Name	:	Sundarpahari Stone Deposit
2	Lessee:	:	Md. Joshim Ali S/o Haidar Ali At Village- Kismat Lakhanpur, Thana - Pakur(M), District- Pakur, Jharkhand.
3	Lease Address	:	Village – Sundarpahari, Thana- Pakur(M), District – Pakur, State – Jharkhand.
4	Lease Area	:	1.893 ha Acres- 4.68 Acre
5	Type of Land	:	Non Forest – Raiyati Land
6	Project Cost	:	Rs. 30 Lakhs
7	EMP Budget	:	Capital: 4.01 Lakhs Recurring: 3.27 Lakh / year
8	CSR / CER Budget	:	Rs. 0.60 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.m.: 4,37,482.60 cum Tonnes: 10,93,706.50 tons
11	Mine Life	:	8.57 years
12	Man power	:	32
13	Water Requirement	:	8.0 KLD (Drinking: 0.35 KLD, Dust Suppression: 4.70 KLD, Plantation:3.0 KLD)
14	Water Source	:	From Nearby villages by tankers
15	DG Set / power	:	-
16	Crusher	:	No crusher
17	Nearest Water Body	:	Bansloi Nadi Approx. 7.0 km towards SE direction. Farakka Feeder canal, Approx. 9.50 km towards ENE direction.
18	Nearest Habitation	:	Sundarpahari, 0.30 km, S direction.
19	Nearest Rail Station	:	Nagarnabi Railway station, approx. 10.5 km toward East direction.
20	Nearest Air Port	:	Kazi Nazrul Islam Airport, approx. 123.50 km towards SSW direction.
21	Nearest Forest	:	Protected Forest near Mohanpur Village at approx 3.0 km towards W direction of mine site. RF near Mahurpur village at 9.50 km towards S direction of mine site.
22	Road & Highways	:	NH-114A , Approx. 6.50 km. in North direction. SH-7, Approx. 3.5 km in South East direction.

**CO-ORDINATES :**

1	Latitude	From 24°34'39.55" N	To 24°34'44.93" N
2	Longitude	From 87°51'26.47" E	To 87°51'33.09" E




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**LAND DETAILS :**

Khata no.	Plot no.
02	948, 949/P, 950/P, 951/P
06	955, 956, 957/P, 958/P, 940/P
19	941/P, 942/P, 943/P, 944, 945, 946, 947
28	952/P, 953/P, 954/P, 1305, 1306, 1307, 1308, 1309 & 1310

**STATUTORY CLEARANCES**

1	LOI/Lease docs	:	The LOI has been issued by District Mining Office, Pakur vide letter no. 1000/M, dated 01-07-2021.
2	CO	:	The CO, Pakur vide letter no. 1252, dated 17-08-2020 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani & Register II.
3	DMO	:	DMO, Pakur vide memo no. 1664/M dated 20.09.2021 certified that 03 other lease (1.85 acre, 6.88 acre & 7.43 acre) exist within 500 m radius from proposed project site and total area is 8.43 Ha.
4	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1036, dated 23-06-2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Pakur Forest Division vide letter no. 816 dated 28-05-2021 certified that the distance from the nearest RF/PF from the project site is more than 250 m.
6	DSR	:	Project name is mentioned in District Survey report (DSR) Pakur.
7	Gram Sabha	:	On 29-07-2020
8	Mine Plan Approval	:	Vide Memo no. 1543/M on 03.09.2021

**Working Details**

1	Mining Method	:	Opencast other than fully mechanized method (OTFM)
2	Quarry Area	:	5 years – 1.426 ha      Life of Mine – 1.426 Ha
3	Waste Generation	:	5 years – 48757.49 cu.m
4	Stripping Ratio	:	1: 0.16

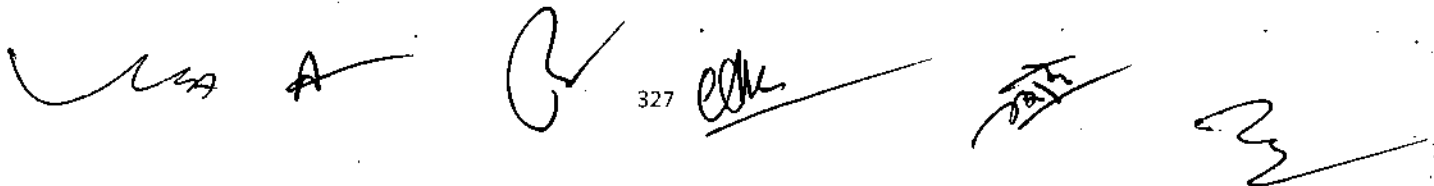
5	Working Days	: 300
6	Benches: size & No	: 6m x 10m
7	Elevation of Mine	: 32 AMSL to 38 AMSL
8	Ground Level Elevation	: 9.90 AMSL
9	Ultimate Working Depth	: 7.0 AMSL (2.9 mbgl)
10	Water Table	: 4.0 AMSL (5.90 mbgl)
11	Topography of Mine	: Area represents a small undulating flat land.
12	Explosive Requirement	: 42 kg slurry explosive
13	Diesel/Fuel requirement	: 8 liter/day

**Production Details :**

Year	Production of stone (Tonnes)	Production of stone (Cum)	Waste Generation (CuM)	Bench RL in Meters
1 <sup>st</sup>	127500.83	51000.33	21406.86	38 mRL – 26 mRL
2 <sup>nd</sup>	127496.86	50998.74	2684.14	26 mRL - 14 mRL
3 <sup>rd</sup>	127495.70	50998.28	19297.87	38 mRL – 26 mRL
4 <sup>th</sup>	127508.05	51003.22	2684.38	26 mRL - 14 mRL
5 <sup>th</sup>	127501.63	51000.65	2684.24	32 mRL - 14 mRL
<b>Total</b>	<b>637503.07</b>	<b>255001.22</b>	<b>48757.49</b>	

**Land Use**

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Excavation	Nil	1.426	1.426 (0.990 ha area shall be left as water reservoir for rain water harvesting and 0.436 ha will be backfilled)
Waste Dump	1.526	Nil	Nil
Road	0.005	Nil (within quarry)	Nil (within quarry)
Infrastructure	0.009	(comes under quarry)	(comes under quarry)
Plantation (Green Belt)	Nil	0.467 (within safety zone)	0.467 (within safety zone)
<b>Unused Area</b>	<b>0.353</b>	<b>0.000</b>	<b>0.000</b>
<b>Total</b>	<b>1.893</b>	<b>1.893</b>	<b>1.893</b>


  
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## ENVIRONMENT MANAGEMENT

### Green Belt Development

S.No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.467 ha	1170
2	Haul /Approach Road	:	0.37 km	370

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

### Solid Waste Management

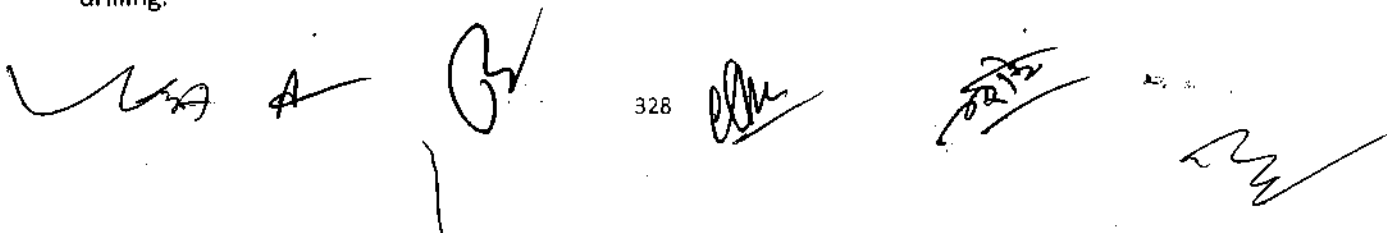
- Waste Generation will be 48757.49 cum waste (overburden & intercalated) (dump area-1.526 ha) during the plan period. The generated waste will be dump temporarily on the southern side of the lease area & will be used in maintenance of mine road and village road.

### Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 9m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation.Excess water, if any shall be discharged in natural stream after settling of suspendedparticles in the pit. Pump having required capacity will be installed to liftaccumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall becollected in garland drain and allowed to settle in a small pit for settling suspendedparticles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, dischargefrom Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and goodsanitation system shall be made available.

### Air Quality Management

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

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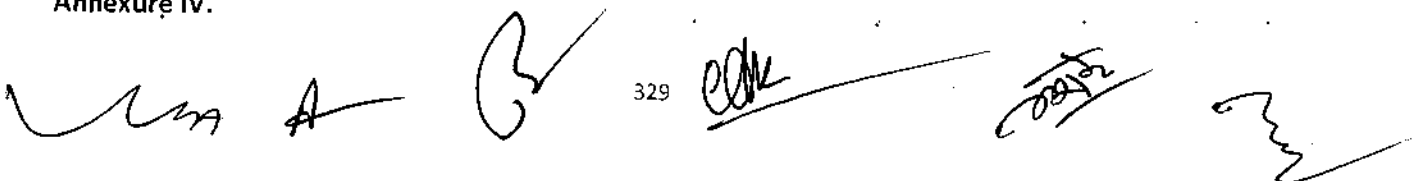


- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once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

**Undertaking submitted affirming:**

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

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 18, 19, 20, 21, 22, 23, 24, 25&26.02.2022, the Committee recommends in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure IV.



13. Betakocha Brick Clay Mining of M/s Anil Bricks, Proprietor- Shri Rajendra Kumar Singh, Village : Betakocha, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (0.591 Ha).

(Proposal No. : SIA/JH /MIN/238394 /2021).

Applied Area: 1.46 Acres (0.591 Ha)

Project Category: B2 – Application for Environment Clearance

EC Application for: Soil: 1200 m<sup>3</sup>/yr;

6000 m<sup>3</sup> during plan period

Top soil: 1252.05 m<sup>3</sup> during plan period.

DG Set: Not proposed

Mobile Crusher: Not proposed

Name of the consultant: Visiontek Consultancy Pvt. Ltd., Bhubneshwar

This is a new project which has been taken for appraisal on 22.02.2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Betakocha Brick Clay Mining
2	Lessee:	: M/s Anil Bricks, Proprietor- Shri Rajendra Kumar Singh
3	Lease Address	: At: Village - Betakocha, P.O.- Ghatsila P.S. – M.G.M. (Ghatshila), District – East Singhbhum, Jharkhand.
4	Lease Area	: Ha:0.591 Acres:1.46
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Rs. 13.90 Lakhs
7	EMP Budget	: Capital: Rs. 2.00 Lakhs Recurring: Rs. 1.85 Lakhs/ year Monitoring cost: Rs. 0.90 Lakhs/year
8	CSR / CER Budget	: Rs. 0.69 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 6765.1 Cu. M. Tonnes: Nil
11	Mine Life	: 5.6 years
12	Man power	: 12 Person
13	Water Requirement	: 2.98 KLD (Drinking: 0.40 KLD, Dust Suppression & Plantation: 2.58 KLD)
14	Water Source	: Through Water Tanker –near by spring/Nala & Wells
15	DG Set / power	: Not Applicable
16	Crusher	: Not Applicable
17	Nearest Water Body	: Subarnerekha river at 0.60 Km in S Dimna reservoir at 5.80 km in NW
18	Nearest Habitation	: Jagannathpur village 1.53 km NW direction from the mine site.
19	Nearest Rail Station	: Tatanagar Railway Station 10.14 km SW direction from the mine site.

20	Nearest Air Port	:	Ranchi Airport - 114 km W direction from the mine site.
21	Nearest Forest	:	340 m, as per forest division. Letter no – 3213 Dt- 29-09-2018 and Letter no.- 2736 Dt- 25-10-2021
22	Road & Highways	:	NH 33 at 1.07 km N direction from the mine site.

#### CO-ORDINATES

1	Latitude	:	From 22° 48' 18.16" N	To 22° 48' 13.47" N
2	Longitude	:	From 86° 17' 31.39" E	To 86° 17' 30.97" E

#### LAND DETAILS

The lease area is situated near Betakochoa,

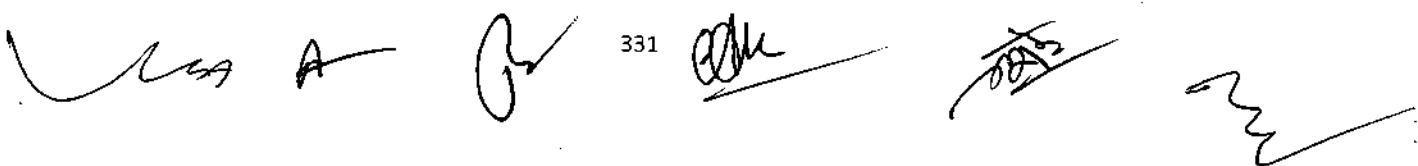
Khata No.	Plot No.	Area in Acre / Ha.
09	386	1.46 / 0.591

#### STATUTORY CLEARANCES

1	LOI/Lease docs	:	Land Agreement
2	CO	:	The CO, Jamshedpur, East Singhbhum vide letter no. 2864, dated 20.11.2018 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyar.
3	DMO	:	DMO, East-Singhbhum, Jamshedpur vide letter no. 541/M, dated 05.04.2021 certified that no lease exists within 500 m radius from proposed project site & Total lease area is less than 5 Ha.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 599, dated 29.06.2020 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Division vide letter no. 2736, dated 25.10.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	D5R	:	Project area is mentioned District Survey Report, Jamshedpur (Bricks)
7	Gram Sabha	:	Letter no.- 74/2018 On 10.11.2020
8	Mine Plan Approval	:	Letter No. 157/G dated 17.11.2020

#### WORKING DETAILS

1	Mining Method	:	Opencast Manual Mining
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2	Quarry Area	:	5 years- 0.441 ha	Life of Mine - 0.441ha
3	Waste Generation	:	5 years- Nil	Life of Mine -5.6 years
4	Stripping Ratio	:	NA	
5	Working Days	:	200 days/year	
6	Benches: size & No	:	1m x 1m	
7	Elevation of Mine	:	In 140 MSL	
8	Ground Level Elevation	:	In 140 MSL	
9	Ultimate Working Depth	:	In 138 MSL	
10	Water Table	:	In 140MSL and also 4.8-5.0 m bgl	
11	Topography of Mine	:	Flat area	
12	Explosive Requirement	:	Not applicable	
13	Diesel/Fuel requirement	:	Not applicable due to manual mining	

#### PRODUCTION DETAILS

Year	Production Bricks Clay in cum per Annum	Topsoil removable in cum for 5 years
1 <sup>st</sup>	1200	1252.05
2 <sup>nd</sup>	1200	
3 <sup>rd</sup>	1200	
4 <sup>th</sup>	1200	
5 <sup>th</sup>	1200	
<b>Total</b>	<b>6000</b>	<b>1252.05</b>

#### LAND USE

Category	Existing (Acres)	Existing (ha.)	End of Plan Period (Acres)	End of Plan Period (ha.)	Conceptual Plan (ha.)
Quarry Area	0.00	0.00	1.09	0.441	0.501 (Converted to levelled land with topsoil spread)
Topsoil storage, Road/ Infrasturer./ etc.	0.00	0.00	0.15	0.060	
Berm Area & Plantation	0.00	0.00	0.22	0.090	Area under plantation
Unutilized Area	1.46	0.591	0.00	0.000	0.00
<b>Total Area</b>	<b>1.46</b>	<b>0.591</b>	<b>1.46</b>	<b>0.591</b>	<b>0.591</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.060 Ha	000
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 340 meter	150 Tree both side approach road.

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

#### Solid Waste Management

- Top soil Generation will be 1252.05 Cu.M. during the life of Mine. Top soil storage area is 0.02ha. The top soil shall be used for backfilling in the end of life of mine of the mining operation.

#### Water Pollution Control Measures:

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

#### Air and Noise Pollution Control Measures:

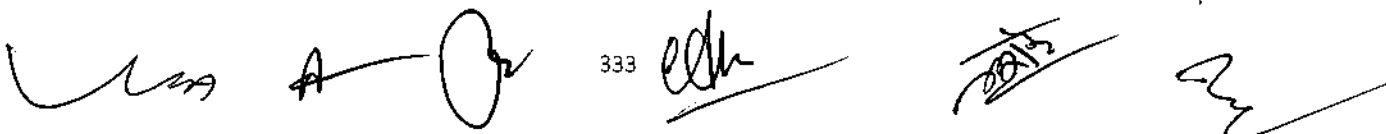
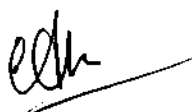


- Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
- Overloading of the truck / tractor trolleys will not be done.

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

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

#### Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.

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

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Betakocha Brick Clay Mining of M/s Anil Bricks, Proprietor- Shri Rajendra Kumar Singh, Village : Betakocha, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (0.591 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

**14. Betakocha Brick Clay Mining of M/s Jyoti Bricks & Enterprises Bricks, Proprietor- Shri Ashwini Gour, Village : Betakocha, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (1.105 Ha) .**

(Proposal No. : SIA/JH /MIN/241169 /2021).

**Applied Area: 2.73 Acres (1.105 Ha)**

**Project Category: B2 – Application for Environment Clearance**

**EC Application for: Soil: 2400 m<sup>3</sup>/yr;**

**12000 m<sup>3</sup> during plan period**

**Top soil: 2437.70 m<sup>3</sup> during plan period.**

**DG Set: Not proposed**

**Mobile Crusher: Not proposed**

**Name of the consultant: Visiontek Consultancy Pvt. Ltd., Bhubneshwar**

This is a new project which has been taken for appraisal on 22-02-2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
1	Project Name	: Betakocha Brick Clay Mining
2	Lessee:	: M/s Jyoti Bricks & Enterprises Bricks, Proprietor- Shri Ashwini Gour

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3	Lease Address	: At: Village – 22, Pokhari, P.O.-Bhilaipahari, P.S. – M.G.M. (Ghatsila), District – East Singhbhum, Jharkhand.
4	Lease Area	: Ha:1.105 Acres:2.73
5	Type of Land	: Non Forest – Rayati Land
6	Project Cost	: Rs. 20.50 Lakhs
7	EMP Budget	: Capital: Rs. 3.10 Lakhs Recurring: Rs. 2.10 Lakhs/ year Monitoring cost: Rs. 0.90 Lakhs/year
8	CSR / CER Budget	: Rs. 1.02 Lakhs
9	New or Expansion	: New
10	Mineable Reserves	: Cu.M.: 13219.99 Cu. M. Tonnes: Nil
11	Mine Life	: 5.51 years say 5 Years Only
12	Man power	: 25 Person
13	Water Requirement	: 5.40 KLD (Drinking: 0.50 KLD, Dust Suppression & Plantation: 4.90 KLD)
14	Water Source	: Through Water Tanker –near by spring/Nala & Wells
15	DG Set / power	: Not Applicable
16	Crusher	: Not Applicable
17	Nearest Water Body	: Subarnerekha river at 0.28 Km in S Dimna reservoir at 6.04 km in NW
18	Nearest Habitation	: Betakocha village 0.20 km N direction from the mine site.
19	Nearest Rail Station	: Tatanagar Railway Station 9.70 km SW direction from the mine site.
20	Nearest Air Port	: Birsa munda Airport, Ranchi 114 km NW direction from the mine site.
21	Nearest Forest	: 260 m, as per forest division. Letter no – 2901; Dt- 28-08-2018 Letter no.- 2737; Dt- 25-10-2021
22	Road & Highways	: NH 33 at 1.38 km NE direction from the mine site.

#### CO-ORDINATES

1	Latitude	: From 22° 48' 03.92" N	To 22° 48' 07.69" N
2	Longitude	: From 86° 17' 24.10" E	To 86° 17' 29.31" E

#### LAND DETAILS

The lease area is situated near Betakocha,

Khata No.	Plot No.	Area In Acre.
92	151(P), 152(P)	0.67
90	153(P)	1.11
10	154,155,156	1.75
107	113	0.70
Total Area in Acre		3.23

#### STATUTORY CLEARANCES



1	LOI/Lease docs	:	Land Agreement
2	CO	:	The CO, Mango vide letter no. 677, dated 13.09.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyan.
3	DMO	:	DMO, East-Singhbhum, Jamshedpur vide memo no. 1392/M, dated 14.10.2019 certified that no lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1052, dated 18.10.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Division vide letter no. 2737, dated 25.10.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	Project area is mentioned District Survey Report, Jamshedpur (Bricks)
7	Gram Sabha	:	Letter no.- 30/2019 On 15.08.2019
8	Mine Plan Approval	:	Letter No. 629/G dated 01.11.2019

#### WORKING DETAILS

1	Mining Method	:	Opencast Manual Mining
2	Quarry Area	:	5 years- 0.684 ha      Life of Mine - 0.684 ha
3	Waste Generation	:	5 years-Nil      Life of Mine -5.51 years
4	Stripping Ratio	:	NA
5	Working Days	:	200 days/year
6	Benches: size & No	:	1m x 1m
7	Elevation of Mine	:	In 127 MSL
8	Ground Level Elevation	:	In 127MSL
9	Ultimate Working Depth	:	In 125MSL
10	Water Table	:	In 121MSL and also 4.8-5.0 m bgl
11	Topography of Mine	:	Flat area
12	Explosive Requirement	:	Not applicable
13	Diesel/Fuel requirement	:	Not applicable due to manual mining

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**PRODUCTION DETAILS**

Year	Production Bricks Clay in cum per Annum	Topsoil removable in cum for 5 years
1 <sup>st</sup>	2400	2437.70
2 <sup>nd</sup>	2400	
3 <sup>rd</sup>	2400	
4 <sup>th</sup>	2400	
5 <sup>th</sup>	2400	
<b>Total</b>	<b>12000</b>	<b>2437.70</b>

**LAND USE**

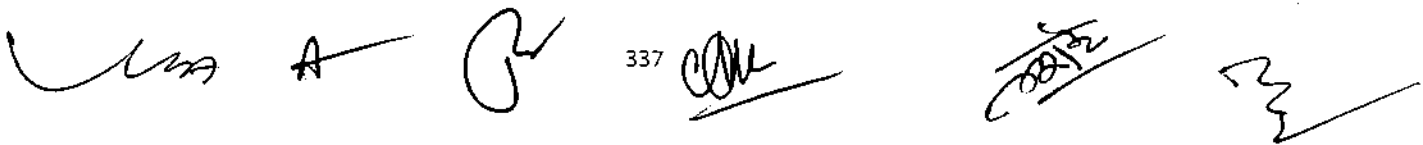
Category	Existing (Acres)	Existing (ha.)	End of Plan Period (Acres)	End of Plan Period (ha.)	Conceptual Plan (ha.)
Quarry Area	0.00	0.00	1.69	0.684	(Converted to levelled land with topsoil spread)
Topsoil storage, Road/ Infrasturur./ etc.	0.00	0.00	0.40	0.162	
Berm Area & Plantation	0.00	0.00	0.24	0.097	Area under plantation
Unutilized Area	2.73	1.105	0.40	0.162	0.00
<b>Total Area</b>	<b>2.73</b>	<b>1.105</b>	<b>2.73</b>	<b>1.105</b>	<b>1.105</b>

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

Sl	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.162 Ha	000
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 250 meter	150 Tree both side approach road.

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


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

**Solid Waste Management**

- Top soil Generation will be 2437.70 Cu.M. during the life of Mine. Top soil storage area is 0.02ha. The top soil shall be used for backfilling in the end of life of mine of the mining operation.

**Water Pollution Control Measures:**

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

**Air and Noise Pollution Control Measures:**

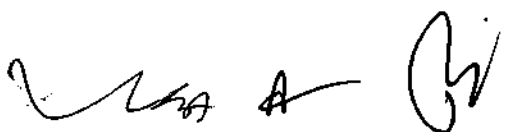
1. Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
2. Overloading of the truck / tractor trolleys will not be done.

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

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

**Undertaking submitted affirming:**

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





16	Crusher	:	Not Applicable
17	Nearest Water Body	:	Juriya Nala at 0.25 Km in N Jamda Nadi at 4.5 Km in NE Dosimani Nadi at 0.20 Km in W
18	Nearest Habitation	:	Kowali village 1.10 km SW direction from the mine site.
19	Nearest Rail Station	:	Sidhirsai Railway Station 4.36 km SW direction from the mine site.
20	Nearest Air Port	:	Birsamunda Airport, Ranchi 124 km NW direction from the mine site.
21	Nearest Forest	:	Protected Forest at 2.5 Km S Tuaradungri RF 5.52 Km SW Jojodih RF at 7.5 Km SW
22	Road & Highways	:	NH at 9.13 km W direction from the mine site.

#### CO-ORDINATES

1	Latitude	:	From 22°31' 13.51" N	To 22° 31' 17.03" N
2	Longitude	:	From 86° 11' 13.98" E	To 86° 11' 17.78" E

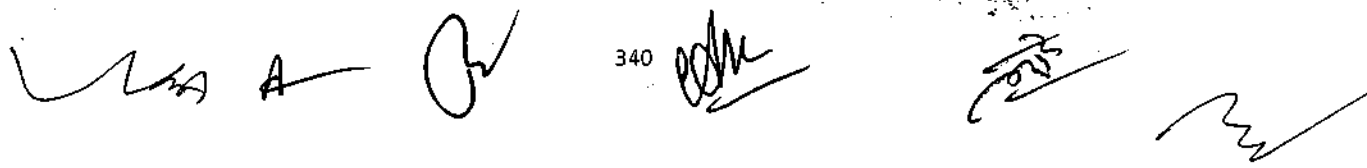
#### LAND DETAILS

The lease area is situated near Nischintpur,

Khata No.	Plot No.	Area In Acre.
34	32	2.020
<b>Total Area in Acre</b>		<b>2.020</b>

#### STATUTORY CLEARANCES

1	LOI/Lease docs	:	Land Agreement
2	CO	:	The CO, Potka, East Singhbhum vide letter no. 720, dated 22.11.2018 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
3	DMO	:	DMO, East-Singhbhum, Jamshedpur vide memo no. 869/M, dated 13.07.2021 certified that no lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project, Jamshedpur vide letter no. 1602, dated 20.10.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Division vide letter no. 1546, dated 23.07.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	Project area is mentioned District Survey Report,


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			Jamshedpur (Bricks)
7	Gram Sabha	:	Letter no.- 1288 On 04.12.2018
8	Mine Plan Approval	:	Letter No. 451/G dated 23.02.2019

**WORKING DETAILS :**

1	Mining Method	:	Opencast Manual Mining
2	Quarry Area	:	5 years- 0.685 ha
3	Waste Generation	:	5 years-Nil
4	Stripping Ratio	:	NA
5	Working Days	:	200 days/year
6	Benches: size & No	:	1m x 1m
7	Elevation of Mine	:	In 190 MSL
8	Ground Level Elevation	:	In 190MSL
9	Ultimate Working Depth	:	In 188MSL
10	Water Table	:	In 184MSL and also 4.8-5.0 m bgl
11	Topography of Mine	:	Flat area
12	Explosive Requirement	:	Not applicable
13	Diesel/Fuel requirement	:	Not applicable due to manual mining

**PRODUCTION DETAILS**

Year	Production Bricks Clay in cum per Annum	Topsoil removable in cum for 5 years
1 <sup>st</sup>	2400	1690.72
2 <sup>nd</sup>	2400	
3 <sup>rd</sup>	2400	
4 <sup>th</sup>	2400	
5 <sup>th</sup>	2400	
<b>Total</b>	<b>12000</b>	<b>1690.72</b>

**LAND USE**

Category	Existing (Acres)	Existing (ha.)	End of Plan Period (Acres)	End of Plan Period (ha.)	Conceptual Plan (ha.)
Quarry Area	0.000	0.000	1.693	0.685	0.777 (Converted to levelled land with topsoil spread)
Topsoil storage, Road/ Infrasturer./ etc.	0.000	0.000	0.227	0.092	

Berm Area & Plantation	0.000	0.000	0.100	0.040	Area under plantation
Unutilized Area	2.020	0.817	0.000	0.000	0.000
<b>Total Area</b>	<b>2.020</b>	<b>0.817</b>	<b>2.020</b>	<b>0.817</b>	<b>0.817</b>

## ENVIRONMENT MANAGEMENT

### Green Belt Development

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.092 Ha	000
2	Other Reclaimed Area	: 0.000	000
3	Haul /Approach Road	: 200 meter	120Tree both side approach road.

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

### Solid Waste Management

- Top soil Generation will be 1690.72Cu.M. During the life of mine. Top soil storage area is 0.02ha. The top soil shall be used for backfilling in the end of life of mine of the mining operation.

### Water Pollution Control Measures:






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

### Air and Noise Pollution Control Measures:

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

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

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



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**Undertaking submitted affirming:**

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

**Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Nischintpur Brick Clay Mining of M/s Puja Bricks, Proprietor- Shri Dinesh Kumar Gupta, Village : Nishchintpur, Tehsil : Potka, Dist. : East Singhbhum, Jharkhand (0.817 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.**

**16. Barabanki Brick Clay Mining of M/s Minu Bricks, Proprietor- Shri Shiv Charan Gour, Village : Barabanki, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (0.70 Ha).**

**(Proposal No. : SIA/JH /MIN/237815 /2021).**

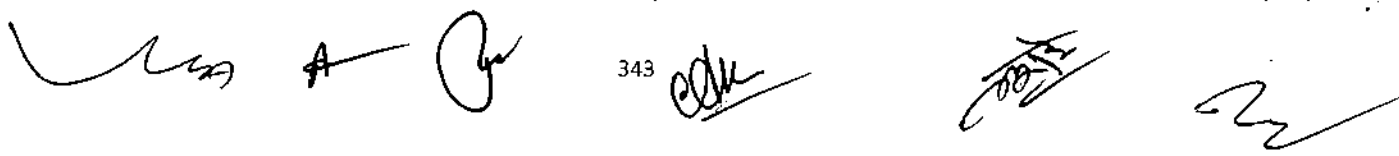
**Applied Area: 1.73 Acres (0.70 Ha)**  
**Project Category: B2 – Application for Environment Clearance**  
**EC Application for: Soil: 2000 m<sup>3</sup>/yr;**  
**10000 m<sup>3</sup> during plan period**  
**Top soil: 1581.75 m<sup>3</sup> during plan period.**  
**DG Set: Not proposed**  
**Mobile Crusher: Not proposed**

**Name of the consultant: Visiontek Consultancy Pvt. Ltd., Bhubneshwar**

**This is a new project which has been taken for appraisal on 22-02-2022**

**PROJECT and LOCATION Details:**

Sl	Parameter	Details
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1	Project Name	:	Barabanki Brick Clay Mining
2	Lessee:	:	M/s Minu Bricks, Proprietor- Shri Shiv Charan Gour
3	Lease Address	:	At: Village - Pokhari, P.O.-Bhilaipahari, P.S. – M.G.M. (Ghatsila), District – East Singhbhum, Jharkhand.
4	Lease Area	:	Ha:0.70 Acres:1.73
5	Type of Land	:	Non Forest – Rayati Land
6	Project Cost	:	Rs. 15.50 Lakhs
7	EMP Budget	:	Capital: Rs. 3.00 Lakhs Recurring: Rs. 2.40 Lakhs/ year Monitoring cost: Rs. 0.90 Lakhs/year
8	CSR / CER Budget	:	Rs. 0.75 Lakhs
9	New or Expansion	:	New
10	Mineable Reserves	:	Cu.M.: 10058.80 Cu. M. Tonnes: Nil
11	Mine Life	:	5.02 years say 5 Years Only
12	Man power	:	18 Person
13	Water Requirement	:	4.15 KLD (Drinking: 0.50 KLD, Dust Suppression & Plantation: 3.65 KLD)
14	Water Source	:	Through Water Tanker –near by spring/Nala & Wells
15	DG Set / power	:	Not Applicable
16	Crusher	:	Not Applicable
17	Nearest Water Body	:	Subarnerekha river at 0.28 Km in south Dimna reservoir at 10.01 km in NW
18	Nearest Habitation	:	Barabanki village 0.75 km NW direction from the mine site.
19	Nearest Rail Station	:	Govindpur Railway Station 6.21 km S direction from the mine site.
20	Nearest Air Port	:	Birsa munda Airport, Ranchi 117 km NW direction from the mine site.
21	Nearest Forest	:	275 m, as per forest division. Letter no – 3207 Dt- 29-09-2018 Letter no.- 2605 Dt- 11-10-2021
22	Road & Highways	:	NH 33 at 2.00 km NE direction from the mine site.

#### CO-ORDINATES

1	Latitude	:	From 22° 46' 32.55" N	To 22° 46' 41.89" N
2	Longitude	:	From 86° 18' 44.01" E	To 86° 18' 47.60" E

#### LAND DETAILS

The lease area is situated near Barabanki,

Khata No.	Plot No.	Area In Acre.
39	871	0.20
39	872	0.26
39	873	0.19
206	868 (P)	0.65

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209	869 (P)	0.43
Total Area in Acre		1.73

#### STATUTORY CLEARANCES

1	LOI/Lease docs	:	Land Agreement
2	CO	:	The CO, Mango vide letter no. 503, dated 09.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in Khatiyari.
3	DMO	:	DMO, East-Singhbhum, Jamshedpur vide letter no. 1152/M, dated 22.08.2019 certified that no lease exists within 500 m radius from proposed project site.
4	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1050, dated 18.10.2019 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Jamshedpur Division vide letter no. 2605, dated 11.10.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
6	DSR	:	Project area is mentioned District Survey Report, Jamshedpur (Bricks)
7	Gram Sabha	:	Latter no.- 114/19 On 08.08.2019
8	Mine Plan Approval	:	Letter No. 631/G dated 01.11.2019

#### WORKING DETAILS

1	Mining Method	:	Opencast Manual Mining
2	Quarry Area	:	5 years- 0.57 ha      Life of Mine - 0.5706ha
3	Waste Generation	:	5 years- Nil      Life of Mine - 5.6 years
4	Stripping Ratio	:	NA
5	Working Days	:	200 days/year
6	Benches: size & No	:	1m x 1m
7	Elevation of Mine	:	In 125 MSL
8	Ground Level Elevation	:	In 125MSL
9	Ultimate Working Depth	:	In 123MSL
10	Water Table	:	In 119MSL and also 4.8-5.0 m bgl
11	Topography of Mine	:	Flat area
12	Explosive Requirement	:	Not applicable


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13	Diesel/Fuel requirement	:	Not applicable due to manual mining
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**PRODUCTION DETAILS**

Year	Production Bricks Clay in cum per Annum	Topsoil removable in cum for 5 years
1 <sup>st</sup>	2000	1581.75
2 <sup>nd</sup>	2000	
3 <sup>rd</sup>	2000	
4 <sup>th</sup>	2000	
5 <sup>th</sup>	2000	
<b>Total</b>	<b>10000</b>	<b>1581.75</b>

**LAND USE**


Category	Existing (Acres)	Existing (ha.)	End of Plan Period (Acres)	End of Plan Period (ha.)	Conceptual Plan (ha.)
Quarry Area	0.00	0.00	1.41	0.5706	0.6313 (Converted to levelled land with topsoil spread)
Topsoil storage, Road/ Infrasturer./ etc.	0.00	0.00	0.15	0.0607	
Berm Area & Plantation	0.00	0.00	0.17	0.0687	Area under plantation
Unutilized Area	1.73	0.70	0.00	0.00	0.00
<b>Total Area</b>	<b>1.73</b>	<b>0.70</b>	<b>1.73</b>	<b>0.70</b>	<b>0.70</b>

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.607 Ha	000
2	Other Reclaimed Area	:	0.000	000
3	Haul /Approach Road	:	250 meter	150 Tree both side approach road.

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3 x 3 m with suitable species

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such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

#### **Solid Waste Management**

- Top soil Generation will be 1581.75 Cu.M. during the life of Mine. Top soil storage area is 0.02ha. The top soil shall be used for backfilling in the end of life of mine of the mining operation.

#### **Water Pollution Control Measures:**

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

#### **Air and Noise Pollution Control Measures:**


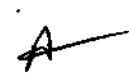

1. Dust suppression measures like spraying / sprinkling of water to keep the surface wet.
2. Overloading of the truck / tractor trolleys will not be done.

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

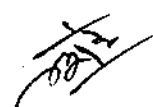
1. Carts or tractor-trolleys will be developed on village roads.
2. Tractors-trolleys will be well maintained and PUC certified.
3. Timely maintenance of vehicles and their silencers to minimize vibration and sound.
4. Minimum use of horns in the village area and silence zone (if any) as applicable.

#### **Undertaking submitted affirming:**

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







- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling is required permission should be taken from competent authority.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Barabanki Brick Clay Mining of M/s Minu Bricks, Proprietor- Shri Shiv Charan Gour, Village : Barabanki, Tehsil : Ghatsila, Dist. : East Singhbhum, Jharkhand (0.70 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure – I.

**17. Khagachua Stone Deposit for M/s S.E. Stone Works of Shri Ignesh Tudu at Vill – Khagachua, Thana – Pakuria, Dist – Pakur, Jharkhand (2.15 Ha).**

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

**Applied Area: 5.32 Acres (2.15 Ha)**

**Project Category: B2 – Application for Environment Clearance**

**EC Application for: Stone : 68838 TPA ~ 22946 m<sup>3</sup>/yr;**

**Waste : 6102 Tonnes ~ 4068 m<sup>3</sup> (Gritty Soil) during plan period.**

**DG Set :Not proposed**

**Crusher : Proposed crusher in mine site**

**Name of the consultant : Visiontek Consultancy Pvt. Ltd., Bhubneshwar**

This is a new project which has been taken for appraisal on 22-02-2022

**PROJECT and LOCATION Details:**

Sl	Parameter	Details	
1	Project Name	: Khagachua Stone Deposit	
2	Lessee:	: M/s S.E. Stone Works, Proprietor- Shri Egnesh Tudu	
3	Lease Address	: At Mouza/ Village- Khagachua, PS.- Pakuria, Dist- Pakur	
4	Lease Area	: Ha:2.15	Acres: 5.32
5	Type of Land	: Non Forest – Rayati Land	
6	Project Cost	: Rs. 114.50 Lakhs	
7	EMP Budget	: Capital: Rs. 8.50 Lakhs	Recurring: Rs. 4.10 Lakhs/ year Monitoring cost: Rs. 0.90 Lakhs/year
8	CSR / CER Budget	: Rs. 2.29 Lakhs	
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.M.: 207970 Cu. M.	Tonnes: 623910
11	Mine Life	: 10 Years Only	
12	Man power	: 30 Person	
13	Water Requirement	: 7.13 KLD (Drinking: 0.9 KLD, Dust Suppression & Plantation: 6.23 KLD)	

14	Water Source	: Through Water Tanker –nearby spring/Nala & Wells
15	DG Set / power	: Not Applicable
16	Crusher	: Not Applicable
17	Nearest Water Body	: Tripta Nadi at 4.58 Km in SW Baru Nadi at the distance of 4.45 km SW.
18	Nearest Habitation	: Khagachua village 0.58 km S direction from the mine site.
19	Nearest Rail Station	: Nalhati Railway Station 11.06 km ES direction from the mine site.
20	Nearest Air Port	: Birsa Munda Airport, Ranchi 215.45 km SW direction from the mine site.
21	Nearest Forest	: As per forest division. Letter no – 609 Dt- 18-03-2020
22	Road & Highways	: Nalhati- Pakuria MDR at 3.35 Km in S direction NH 60 at 11.97 km ES direction from the mine site.

#### CO-ORDINATES

Latitude	Longitude
24 <sup>0</sup> 20'55.03" N	87 <sup>0</sup> 44'43.20" N
To	To
24 <sup>0</sup> 21'00.53" N	87 <sup>0</sup> 44'48.62" N

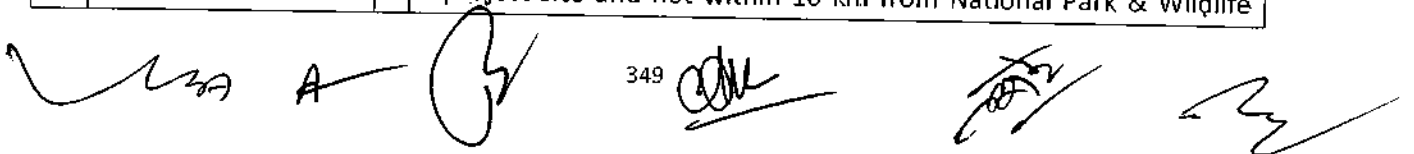
#### LAND DETAILS

The lease area is situated near Khagachua,

Khata No.	23
Plot No.	237, 240P, 245
Area in Acre	5.32 Acre / 2.15 Ha

#### STATUTORY CLEARANCES

1	LOI/Lease docs	: The Letter of Intent (LoI) has been issued by District Mining Office, Pakur vide letter no. 1615/M dated 23.09.2019.
2	CO Certificate	: The CO, Pakuria (Pakur) vide letter no. 567, dated 30.08.2019 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyon & Register II.
3	DMO Certificate	: DMO, Pakur vide memo no. 1872, dated 23.10.2019 certified that no other lease is exists within 500 m radius from proposed project site.
4	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 1350, dated 11.07.2019 certified that the Udhwa Lake Bird Sanctuary is 68,070 m from project site and not within 10 km from National Park & Wildlife



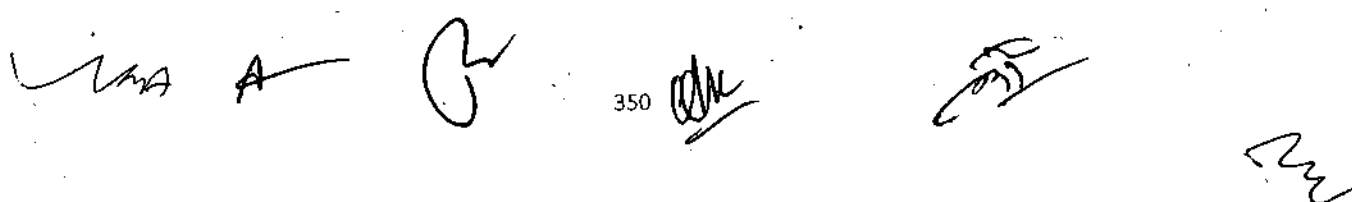
			Sanctuary and proposed project is not situated in any ESZ.
5	DFO Territorial	:	DFO, Pakur Division vide letter no. 609, dated 18.03.2020 certified that the distance of reserved / protected forest is 250 m from proposed project site.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Pakur district.
7	Gram Sabha	:	Letter no- 728 Dated- 31-08-2019
8	Mine Plan Approval	:	Additional Director, Geology (Hazaribagh) Letter No.-756/G Dated- 09-11-2021

### WORKING DETAILS

1	Mining Method	:	Opencast Mechanized Mining
2	Quarry Area	:	5 years-0.99 ha Life of Mine – 1.46 ha
3	Waste Generation	:	5 years-6102 Tons Life of Mine –6102 Tons
4	Stripping Ratio	:	--
5	Working Days	:	300 days/year
6	Benches: size & No	:	6m x 6m
7	Elevation of Mine	:	In 78 MSL to 77 MSL
8	Ground Level Elevation	:	In 78 MSL
9	Ultimate Working Depth	:	In 36MSL
10	Water Table	:	In 26 MSL and also 8-10 m bgl
11	Topography of Mine	:	Gently sloping <sup>2</sup>
12	Explosive Requirement	:	Yes- No. of holes: 5/day; Explosive: Slurry-45 Kg/Day
13	Diesel/Fuel requirement	:	Diesel required only for Mining machinery operation and Tippers/trucks for transportation.

### PRODUCTION DETAILS

Year	Production of stone		Removal of Gritty soil in	
	in Tonnes	in TCum	in Tonnes	in Cum
1st	62190	20730	2646	1764
2nd	62199	20733	3456	2304
3rd	62664	20888	0	000
4th	62028	20676	0	000
5th	92838	20946	0	000
<b>Total</b>	<b>311919</b>	<b>10397 3</b>	<b>6102</b>	<b>4068</b>



**LAND USE**

SL	Pattern	Present Land Use (Ha)	Proposed Current Plan Period (Ha)	Proposed Land Use at End of Life of Mine (Ha)	Land Usage at Conceptual Stage
1	Quarry Area	Nil	0.99	1.46	Water Body
2	Greenbelt within Safety Barrier	Nil	0.67	0.67	Plantation
3	Road	0.008	0.02	-	-
4	Proposed Crusher	Nil	0.02	-	-
5	Non Mining Area	Nil	0.02	0.02	Plantation
6	Dump	Nil	0.10	-	-
7	Parapet Wall	Nil	0.01	-	-
8	Garland Drain	Nil	0.01	-	-
9	Balance Area	2.142	0.31	-	-
	<b>TOTAL</b>	<b>2.15</b>	<b>2.15</b>	<b>2.15</b>	-

**ENVIRONMENT MANAGEMENT**

**Green Belt Development**

SL	LOCATION	Area/Length	No of Trees
1	Safety Zone	: 0.67 Ha	1725
2	Other Reclaimed Area	: 0.00	No
3	Haul /Approach Road	: 400 meter	150 Tree both side approach road.

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

**Solid Waste Management**

• Waste Generation will be 4068 Cu.M. during the life of Mine. Waste storage area is 0.10 ha. The waste shall be used for backfilling in the end of the mining operation.

**Water Pollution Control Measures:**

• Negligible impact envisaged on surface water and ground water due to mining as no discharge of effluent or intersection of ground water.

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- No major surface water body within 1 km radius of the project site.
- Garland drain & settling tank will be constructed around dump for arresting run-off, it will be integral part of rainwater harvesting system.
- Post-project the quarry area will serve as reservoir, which will be source of water for the nearby areas.

**Air and Noise Pollution Control Measures:**

- Water sprinkling shall be done on the haul roads.
- Plantation to be done in the safety zone develop a green belt along the ML boundary.
- Sharp drill will be used and wet drilling will be followed.
- Controlled blasting- Nonel technology will be used.
- Overloading will be prohibited while transporting. Water sprinkling will be taken up.
- Plantation along transportation route will be done.
- Regular monitoring of Air quality & PUC for vehicle will be carried out.

**Undertaking submitted affirming:**

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

**This proposal was earlier considered in 88<sup>th</sup> meeting of SEAC held during 23-28.06.2021 in which PAs were asked to submit the following additional documents :**

- i. As per CO Pakuria (Pakur) letter no. 657, dated 30-08-2019 it was observed that the Educational institute / School is located within 500m of the mine lease area. The committee was of the view that the blasting operation in the mine is likely to affect the safety of the institute due to flying rock. Hence, the Project authorities are required to give details of the institute / School located within 500m prepare a EMP a get to approved by competent Govt. Authority and School management.

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

The PAs have submitted the above required documents and hence, it has been taken up for reconsideration on 22.02.2022. The consultant made a presentation for the same before the Committee.

Based on the presentation made and information provided, the Committee in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF& CC O.M dated 12.12.18 decided that the proposal for Khagachua Stone Deposit for M/s S.E. Stone Works of Shri Ignesh Tudu at Vill - Khagachua, Thana - Pakuria, Dist - Pakur, Jharkhand (2.15 Ha) is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - I.

18. Enhancement of MS Billet production from 24000TPA to 148,500TPA through 3x15T Induction Furnaces (by replacing existing 1x8T Furnace with 1x15T & installing additional 2x15T Furnace along with CCM-2x2strand), Slag Crusher from 4200TPA to 33,000TPA capacity and production of 145,500TPA TMT Bars & Rolled Products by installing Rolling Mills of 1x25TPH Capacity by M/s Pavanputra Steel and Alloys at Plot No. 57/B, Barhi Industrial Area, Village : Konra, P.S. : Barhi, District : Hazaribagh, Jharkhand.

(Proposal No. : 5IA/JH /IND/71704 /2022).

This is an expansion project which has been taken for appraisal on 22.02.2022.

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

M/s Pavanputra Steel and Alloys is an existing steel plant at Plot No. 57/B, Barhi Industrial Area, Village – Konra, P.S. – Barhi, District – Hazaribagh, Jharkhand.

Company started with production of 24000 TPA M.S. Ingot/Billet along with Slag Crusher of 4200TPA capacity after obtaining the Consent To Establish (CTE) vide letter No. JSPCB/HO/RNC/CTE-8893739/2021/8, dated 08.01.2021 and Consent to Operate (CTO) vide ref No. JSPCB/HO/RNC/CTO-10583363/2021/1001, dated 07.09.2021, valid for the period upto 30.06.2022.

The company now proposes for enhancement of MS Billet production from 24000TPA to 148,500TPA through 3x15T Induction Furnaces (by replacing existing 1x8T Furnace with 1x15T & installing additional 2x15T Furnaces along with CCM-2x2strand), Slag Crusher from 4200TPA to 33,000TPA capacity and production of 145,500TPA TMT Bars & Rolled Products by installing Rolling Mills of 1x25TPH Capacity at Plot No. 57/B, Barhi Industrial Area, Village: Konra, P.S.: Barhi, District: Hazaribagh, Jharkhand within the existing plant area of 2.25Ha (5.57Acres).

**Configuration and Production Capacities of the existing & Proposed Units:**

Sl. No	Plant Facilities	Existing Configuration	Proposed New Configuration	Final Production Capacity (TPA)
1	Induction Furnace For Billet	24,000 TPA (1x8T)	1,48,500 TPA (3x15 T)	MS Billets 148,500 TPA
	Continuous Casting Machine	2 x 2 strand (for 24,000 TPA)	2x2 strand, Rad 4/7 (for 1,48,500 TPA)	
2	Rolling Mill (Direct Hot Charging)		1,45,500 TPA (1x25TPH)	Roll Products (TMT Bars & Rolled Products/Rods etc.) 1,45,500 TPA
3	Slag Crusher	1x1.5TPH (max. 4200 TPA)	1x10TPH (max. 33000 TPA)	Crushed Slag 33000 TPA

**Land Requirement & Location**

The expansion project will be installed within the existing plant area of 2.25Ha (5.57 Acres) at Plot No. 57/B, Barhi Industrial Area, Village: Konra, P.S.: Barhi, District: Hazaribagh, Jharkhand. No additional land shall be required. Hazaribagh Wildlife Sanctuary ESZ is located at a distance of 8.0 Km from the project site.

**Khata no. & Plot no. of the project:**

Khata No.	23	44	56	73	67
Plot No.	146P,167P,168,169,170P,171P,154P	530P	158,159,160,162,161,163	164,165,166,151P,152P	172P

**Latitude & Longitude**

Latitude	24° 18' 19.25" N to 24° 18' 25.75" N
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Longitude	85° 25' 47.49" E to 85° 25' 56.44" E
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#### Raw Material Requirement

Raw Materials	Total Raw materials required After Expansion	Source
<b>M.S. Billets (Total production: 148,500 TPA )</b>		
Sponge Iron	118,800 TPA	Plant in Jharkhand. Through Road
Pig Iron	44,550 TPA	
Scrap	22,275 TPA	In-house & nearby Plants. Through Road
Ferro Alloys (SiMn/FeSi)	297 TPA	Plant in Jharkhand. Through Road
<b>Total Raw Materials</b>	<b>185,922 TPA</b>	
<b>Rolling Mill – TMT Bars &amp; Rolled Products (Total production: 145,500 TPA )</b>		
Hot Billets/M.S. Billets	148,500 TPA	148,500 TPA, In-house – Hot Billets direct charging

#### Water requirement and its source

The total water requirement for proposed plant is estimated to be 190.0 m<sup>3</sup>/day. Water will be required for cooling, drinking, horticulture, etc. and the requirement will be met from ground water. Due permission shall be obtained from CGWA.

#### Power requirement

Presently the unit is having a connected load of 4.50 MVA. Total power requirement for the project after expansion is envisaged as 22 MVA, which will be met from DVC.

#### Manpower Requirement for the project

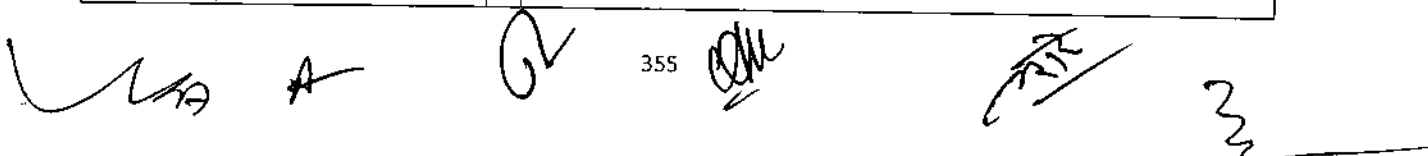
It is estimated that the total requirement of manpower after implementation of project is around 180 persons which will include Sr. Executives, Managers, Administrators, Engineers, Supervisors and Skilled Technicians.

#### Project Cost

The total estimated cost of the project after the proposed expansion will be Rs 4900 Lacs. (i.e. Existing - Rs. 1600.00 Lacs + Additional - Rs. 3300 Lacs). Cost of the existing facilities is Rs. 1600.00 Lacs.

#### STATUTORY CLEARANCES :

1.	CO	: The CO, Barhi (Hazaribag) vide letter no. 594, dated 13.08.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
2.	DFO Wild Life	: DFO, Wildlife Hazaribagh vide letter no. 2187, dated


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		06.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and However ESZ of Hazaribagh Wildlife Sanctuary is within 10 Km radius, but proposed project is not situated in any ESZ.
3.	DFO Forest Distance	: DFO, Hazaribagh West Division vide letter no. 4440 dated 21.12.2021 certified that the distance of the nearest Reserved Forest / Protected Forest from the project site is more than 250 m.

The baseline data generation is being done from December, 2021 to February, 2022.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure VI alongwith following project specific condition :

I. TCLP test report of the slag from existing plant to be provided in the EIA / EMP report.

19. Operation of current plant of capacity 415,000 TPA and proposed phase-wise expansion to 1.015,000 TPA capacity of Electrolytic Tinline and Tin-Free Steel material including 28,000 TPA Printed and Lacquered sheets of M/s The Tinline Company of India Limited at Golmuri Works, Jamshedpur, East Singhbhum, Jharkhand.

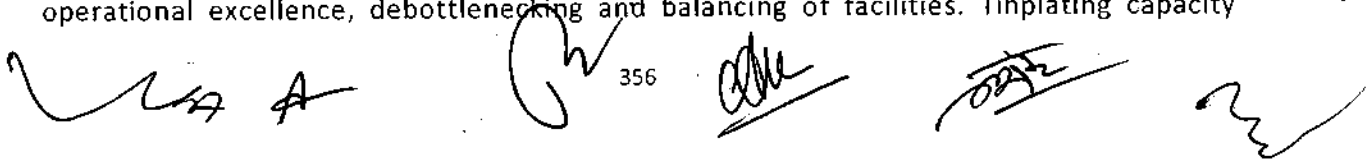
(Proposal No.- SIA/JH/IND/60643/2021)

This is an expansion project which has been taken for appraisal on 22.02.2022.

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

M/s The Tinline Company of India Limited (TCIL) located at Golmuri, Jamshedpur installed an Electrolytic Tinning Line (ETL-1) coupled with a shearing line in the year 1979 to produce Tinline (TP) and Tin-free steel (TFS) with imported Tin Mill Black Plate (TMBP) coils. It continued to produce ETP and TFS in various coating weight, thickness and width. A captive upstream Cold Rolling Mill Complex (CRMC) was added by TCIL in its premises in 1996 to produce the TMBP coils as required for its ETL to do away with the import of costly TMBP coils as a cost saving measure.

The installed capacity of 90,000 TPA of ETL -1 was enhanced to 180,000 TPA through operational excellence, debottlenecking and balancing of facilities. Tinline capacity



has been expanded to 380,000 TPA in 2008 through installation of 200,000 TPA ETL-2. For feeding TMBP subsequently in 2010-11, CRM complex was expanded to rated capacity of 380,000 TPA through installation of CRM-2 facilities. The capacity achieved was 355,784 TPA which is almost 94% of the rated production capacity of 380,000 Ton / year. The major reason for achieving the rated production capacity is by streamlining the flow of Raw material in the form of Hot Rolled coils from Tata Steel our parent company and focus on the equipment availability and performance rate. In view of the above and improvement in operational efficiencies & better product mix, the existing infrastructure and facilities is capable to produce around 415,000 TPA for which we have Consent to Operate.

There is a proposal for expansion by 300,000 TPA in Phase 1 & 300,000 TPA in Phase 2, (additional about 600,000 TPA capacity) . The total capacity post expansion would be 1,015,000 TPA of Electrolytic Tinplate and Tin-Free Steel.

**Executive Summary :**

1.	Name of the Company	<b>M/s The Tinplate Company of India Limited.</b>
2.	Address of the Registered Office	4, Bankshall Street, Kolkata, West Bengal - 700001.
3.	Address of Factory	Golmuri Works, Village: Golmuri, Jamshedpur, District: East Singhbhum Jharkhand – 831003.
4.	Present Business	Manufacturer of Electrolytic Tinplate and Tin-Free Steel Sheets
5.	Area of the Plant	Total Plant area is 53.94 Ha inclusive of 8.50 Ha of land to be used forexpansion.
6.	Topo Sheet No	73 J/1
7.	Latitude	22° 47' 22.77" N - 22° 47' 50.57" N
8.	Longitude	86° 13' 33.09" E - 86° 14' 15.67" E
9.	Elevation	561 ft.
10.	Existing Production	Electrolytic Tinplate and Tin Free Steel - 4,15,000 TPA including Lacquered sheets and Printed Sheets – 28,000 TPA
11.	Proposed Expansion	Electrolytic Tinplate and Tin Free Steel - 6,00,000 TPA (Phase 1 : 300,000 TPA & Phase 2 : 300,000 TPA)  Total Capacity :- Existing Production + Proposed expansion : 1,015,000 TPA
12.	Cost of the Project	Existing – Rs. 1408.78 Crores Estimated cost for Expansion – Rs. 1787 Crores (Net) for Phase 1 and Rs. 950 Crores (Net)


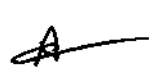
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		for proposed Phase 2 expansion. The total estimated cost is Rs.2737 Crores including 100 Crores for EMP. Cost (Existing + Expansion) – Rs. 4145.78 Crores
13.	Man Power Requirement	<p><b>Existing Manpower</b> Existing Man Power (Direct) - 1380 persons. Existing Man Power (Indirect) - 800 persons.Total Existing Manpower – 2180</p> <p><b>Proposed Expansion (Estimated)</b> Construction phase (Proposed expansion) Direct – 100, Indirect - 2300 Operation phase (Proposed expansion) Man Power (Direct) - 761 persons Man Power (Indirect) - 200 personsTotal Manpower – 961 ( Inclusive of Phase 1 &amp; 2)</p> <p><b>Total Manpower post expansion –3141</b></p>
14.	Power Requirement & DG Sets	<p><b>Power Requirement – Existing – 24 MVA</b> Estimated for Expansion:55 MVA <b>Total – 79 MVA</b> DG Sets - Existing : 3.0 MVA DG Set for Expansion shall be at 415 V level for individual unitsFuel – HSD for D.G Sets</p> <p>Presently TCIL is receiving power from Tata Steel at 33 kV level from Golmuri Sub- Station through buried cables. Present power requirement at TCIL is approx. 24 MVA which is fed through both feeders from Golmuri Sub Station. In case of outage of one of the feeders, the remaining feeder feeds the total power requirement. Considering the additional power demand of around 55 MVA, the power distribution scheme has been planned in accordance.</p>
15.	Water Requirement	<p>Existing Makeup Water – 6600 KLD from JUSCO Estimated for Expansion – 5400 KLD (Inclusive of Phase 1 &amp; 2)</p> <p>Total Water Requirement post expansion- 12000 KLD</p>
		<p><b>Domestic Waste Water (Sewage)</b> About 96 KLD Sewage is generated in the Existing Plant. This sewage is sent to Bara STP. After</p>

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16.	Waste Water Generation	<p>Expansion about 142 KLD Sewage will be generated in the Plant. It will also be sent to Bara STP.</p> <p><b>Industrial Effluent after expansion</b>  From ETL Total Wastewater Generation will be 5880 KLD.  From CRM Total Wastewater Generation will be 2160 KLD.  From Boiler Wastewater Generation will be 120 KLD.  From Water Treatment Plant &amp; Other Generation will be 132 KLD.</p> <p>Total Industrial effluent generation after expansion will be 8292 KLD. Currently the waste water is treated in Effluent Treatment Plant and part of the treated water is recycled into the system and balance is discharged as per norms. It is proposed to treat the entire water in ETP with RO System and the treated Water will be recycled within the process (ZLD).</p>
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**Solid Waste Generation and Disposal**

**Non Hazardous Solid Waste (TPA)**

Sr. No.	Type of Waste	Source	Existing	Proposed expansion	Total	Utilization
1	Red Oxide (by product of ARP)	ARP	1826	2640	4466	Sold to Competent Party
2	Steel Scrap	CRM & ETL	52416	75782	128198	Sold to Competent Party
3	Tin sludge and dross	ETL	30	42	72	To be sold out
4	Fly ash	AFBC boiler	19857	0	19857	Handed over to Fly ash Brick Manufacturers
5	Bottom Ash	AFBC boiler	2920	4867	7787	Partly used in boiler bed and remaining part is handed over

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					to Brick Manufacturers	
6	CRM Sludge	CRM WWTP	3180	4597	7777	Dumped in designated yard within the plant

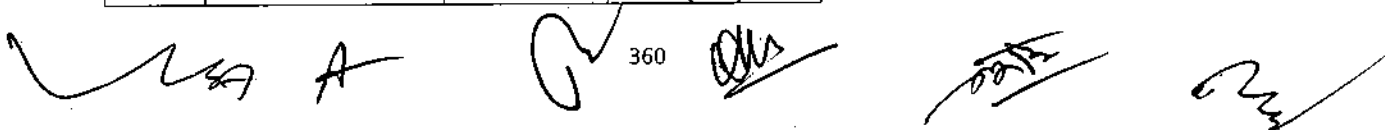
**Hazardous Solid Waste( Annual generation)**

Sr. No.	Type of Waste	Source	Existing	Proposed expansion	Total	Utilization
1.	Waste Emulsion Oil	Plants & CRM WWTPs	500 MT	600 MT	1110 MT	Disposal to authorized vendor.
2.	ETL Sludge	ETL ETP	753MT	1088MT	1841 MT	Disposal through CHWTSDF (M/s Adityapur Waste Management Pvt. Ltd.)
3.	Waste Pickle Liquor (WPL)	Pickling unit	18000 KL	20000 KL	38000 KL	Regenerated at ARP and Reused in Pickling
4.	Process residue	Solution Centre	12 MT	-	12 MT	Disposal to authorized vendor
5.	Alkali residue	CRM plant	4380 KL	6332 KL	10712KL	Treatment at CRM WWTPs

**Land use (Area) break-up :**

The Plant area is 53.94 Ha and within the land around 8.50 Ha of the land will to be used for expansion. Further Plan is in place and area identified for extending Green Coverage by 4.75 Ha post expansion of Phase 2. Proposal for developing Water body post Phase 2 expansion is also in place.

Sr. No.	Particular	Existing land utilization (Ha.)	Land utilization post expansion (Ha.)


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1.	Plant area	19.95	28.45
2.	Green belt	15	18.1
3.	Water body	0.6	0.6
4.	Open area	18.39	6.79
	<b>Total</b>	<b>53.94</b>	<b>53.94</b>

Khata no. & Plot no. of the project :

SN	Ward No	Khata No	Plot No	Area in Hect
1	12	61	4208 (P)	22.151
2	12	61	4209	0.842
3	12	61	4211 (P)	0.025
4	12	61	4212 (P)	0.001
5	12	61	4213	0.258
6	12	61	4336	0.115
7	12	61	4338	0.052
8	12	61	4339	0.075
9	12	61	4340	0.049
10	12	61	4341	0.014
11	12	61	4342	0.01
12	12	61	4343	0.015
13	12	61	4344	0.01
14	12	61	4345	0.013
15	12	61	4346	0.01
16	12	61	4347	0.013
17	12	61	4348	0.01
18	12	61	4349	0.013
19	12	61	4350	0.01
20	12	61	4351	0.013
21	12	61	4352	0.01
22	12	61	4353	0.012
23	12	61	4354	0.01
24	12	61	4355	0.012
25	12	61	4356	0.01
26	12	61	4357	0.012
27	12	61	4358	0.012
28	12	61	4359	0.012
29	12	61	4360	0.114
30	12	61	4361	0.068
31	12	61	4362	0.013
32	12	61	4363	0.017
33	12	61	4364	0.002

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34	12	61	4365	0.018
35	12	61	4366	0.03
36	12	61	4367	0.02
37	12	61	4368	0.006
38	12	61	4369	0.017
39	12	61	4370	0.006
40	12	61	4371	0.015
41	12	61	4372	0.005
42	12	61	4373	0.015
43	12	61	4374	0.007
44	12	61	4375	0.017
45	12	61	4376	0.005
46	12	61	4377	0.017
47	12	61	4378	0.005
48	12	61	4379	0.017
49	12	61	4380	0.007
50	12	61	4381	0.017
51	12	61	4382	0.006
52	12	61	4383	0.015
53	12	61	4384	0.005
54	12	61	4385	0.017
55	12	61	4386	0.088
56	12	61	4387	0.048
57	12	61	4388	0.075
58	12	61	4389	0.072
59	12	61	4390 (P)	0.26
60	12	61	4391	0.05
61	12	61	4392	0.133
62	12	61	4393	0.014
63	12	61	4394	0.014
64	12	61	4395	0.1
65	12	61	4396	0.047
66	12	61	4397	0.006
67	12	61	4398	0.049
68	12	61	4399	0.006
69	12	61	4400	0.049
70	12	61	4401	0.006
71	12	61	4402	0.046
72	12	61	4403	0.018
73	12	61	4404	0.058
74	12	61	4405	0.38
75	12	61	4406	0.123
76	12	61	4407	2.579
77	12	61	4408 (P)	1.817
78	12	61	4414	0.118
79	12	61	4415	0.12
80	12	61	4416	0.094
81	12	61	4417	0.012

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82	12	61	4418	0.06
83	12	61	4419	0.012
84	12	61	4420	0.056
85	12	61	4421	0.012
86	12	61	4422	0.056
87	12	61	4423	0.012
88	12	61	4424	0.116
89	12	61	4425	0.061
90	12	61	4426	0.009
91	12	61	4427	0.065
92	12	61	4428	0.011
93	12	61	4429	0.063
94	12	61	4430	0.011
95	12	61	4431	0.092
96	12	61	4432	0.01
97	12	61	4433	0.044
98	12	61	4434	0.085
99	12	61	4435	0.01
100	12	61	4436	0.056
101	12	61	4437	0.01
102	12	61	4438	0.056
103	12	61	4439	0.011
104	12	61	4440	0.058
105	12	61	4441	0.011
106	12	61	4442	0.056
107	12	61	4443	0.128
108	12	61	4444	0.006
109	12	61	4445	0.09
110	12	61	4446	0.012
111	12	61	4447	0.06
112	12	61	4448	0.011
113	12	61	4449	0.06
114	12	61	4450	0.011
115	12	61	4451	0.059
116	12	61	4452	0.011
117	12	61	4453	0.06
118	12	61	4454	0.152
119	12	61	4455	0.14
120	12	61	4456	0.071
121	12	61	4457	0.223
122	12	61	4458	0.043
123	12	61	4459	0.013
124	12	61	4460	0.27
125	12	61	4461	1.842
126	12	61	4462	0.096
127	12	61	4463	0.065
128	12	61	4464	0.042
129	12	61	4465	0.057

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130	12	61	4466	0.09
131	12	61	4467	0.104
132	12	61	4468 (P)	0.232
133	12	61	4469 (P)	0.138
134	12	61	4474	0.018
135	12	61	4730 (P)	9.34
136	12	61	4731 (P)	0.216
137	12	61	4732 (P)	0.013
138	12	61	4733	0.004
139	12	61	4734	0.106
140	12	61	4735	0.013
141	12	61	4738	0.52
142	12	61	4739	0.057
143	12	61	4767	0.23
144	12	61	5243	0.482
145	12	61	6210 (P)	0.893
146	12	61	6233 (P)	0.17
147	12	61	6234	0.044
148	12	61	6235	0.005
149	12	61	6236	0.044
150	12	61	6237	0.005
151	12	61	6238	0.044
152	12	61	6239	0.005
153	12	61	6240	0.044
154	12	61	6241	0.11
155	12	61	6242	0.057
156	12	61	6243	0.005
157	12	61	6244	0.044
158	12	61	6245	0.004
159	12	61	6246	0.045
160	12	61	6247	0.173
161	12	61	6248	0.009
162	12	61	6249	0.197
163	12	61	6250	0.046
164	12	61	6251	0.005
165	12	61	6252	0.046
166	12	61	6253	0.004
167	12	61	6254	0.046
168	12	61	6255	0.081
169	12	61	6256	0.062
170	12	61	6257	0.005
171	12	61	6258	0.041
172	12	61	6259	0.099
173	12	61	6260	0.069
174	12	61	6261	0.322
175	12	61	6262	1.35
176	12	61	6263	0.162
177	12	61	6264	0.069

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178	12	61	6265	0.127
179	12	61	6266	0.112
180	12	61	6267	0.246
181	12	61	6268	0.118
182	12	61	6269	0.047
183	12	61	6270	0.009
184	12	61	6271	0.036
185	12	61	6272	0.008
186	12	61	6273	0.063
187	12	61	6274	0.009
188	12	61	6275	0.064
189	12	61	6276	0.009
190	12	61	6277	0.113
191	12	61	6278	0.01
192	12	61	6279	0.056
193	12	61	6280	0.011
194	12	61	6281	0.092
195	12	61	6282	0.01
196	12	61	6283	0.047
197	12	61	6284	0.052
198	12	61	6285	0.109
199	12	61	6286	0.093
200	12	61	6287	0.01
201	12	61	6288	0.097
202	12	61	6289	0.01
203	12	61	6290	0.061
204	12	61	6291	0.011
205	12	61	6292	0.063
206	12	61	6293	0.117
207	12	61	6294	0.063
208	12	61	6295	0.014
209	12	61	6296	0.067
210	12	61	6297	0.014
211	12	61	6298	0.095
212	12	61	6299	0.014
213	12	61	6300	0.098
214	12	61	6301	0.109
215	12	61	6304 (P)	0.267
216	12	61	6305	0.005
217	12	61	6306	0.018
218	12	61	6307	0.104
219	12	61	6308	0.014
220	12	61	6309	0.015
221	12	61	6310	0.01
222	12	61	6311	0.015
223	12	61	6312	0.03
224	12	61	6313	0.015
225	12	61	6314 (P)	0.078

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## STATUTORY CLEARANCES

1	DC, Jamshedpur	: In absence of non availability of Khatiyani / Revenue record DC, Jamshedpur has given a certificate vide memo no. 270/TL, dated 30.07.2021 that if any part of land belongs to forest land / jangal jhari in future the project proponent is bound to follow the direction of Forest (Conservation) Act, 1980. This certificate was based on the directives of Revenue, Registration and Land Reforms Deptt., Govt. of Jharkhand issued vide letter no. 05/संभू लतेहार (पिषिघ)-181/2018(छाया संचिका)4792/रांरांची, दिनांक 04.12.2018.
2	DFO Wild Life	: DFO, Dalma Elephant Project vide letter no. 1977, dated 20.12.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	DFO Forest Distance	: DFO, Jamshedpur Forest Division vide letter no. 3231 dated 11.12.2021 certified that the distance from the nearest Reserved Forest / Protected Forest from the project site is more than 250 m.

After detailed presentation the committee observed that the following details are essential before grant of ToR :

- I. Compliance of the conditions of CTO granted by JSPCB is to be provided.
- II. Plant layout to be revised clearly indicating the existing green belt, green cover and the proposed green belt after expansion.
- III. The configuration of the different units of the plant (existing & proposed) to be provided.
- IV. Details of existing pollution control system and the proposed pollution control systems after expansion to be provided.
- V. Rain Water Harvesting details in the existing plant alongwith any changes proposed after expansion.
- VI. Usage and disposal of outlet from the ETP, alongwith MoU, if applicable, to be provided.
- VII. Laboratory test reports of the existing plant from NABL / MoEF&CC accredited laboratories.
- VIII. Proposal for phasing out of usage of coal in the existing plant to be provided.

On submission of the above, the project will be taken up for reconsideration.

**20. Dungri-Puttia Sand Mining Lease of M/s Tata Steel Limited (Prop. Mr. Chavala Divaker), Village : Dungri-Puttia, Tehsil : Jhariya & Putki, Dist. : Dhanbad, Jharkhand (24.127 Ha).**

(Proposal No. : SIA/JH/MIN/59908 /2021).

Project Category: B1 – Application for TOR

Name of the consultant :Crystal Consultants

This is a new project listed for appraisal on 22.02.2022.

In absence of updated DSR as per the Enforcement and Monitoring Guidelines for Sand Mining, 2020 of MoEF&CC the project is not considered for appraisal.

21. Proposed Bokaro Cement Manufacturing Works-Green Field Standalone Grinding Unit with Cement Production Capacity of 2.0 million TPA & DG set of 1000 KVA (2x500 KVA) of M/s Dalmia Cement (Bharat) Limited (DCBL), Village : Gorabali, Notified Bokaro Industrial Area under JIADA, Balidih Phase 4 Bokaro, Jharkhand.

(Proposal No. : SIA/JH/IND/256997/2022).

Name of the consultant : AMPL Environ (Private) Ltd., Hyderabad

This is a new project which has been taken for appraisal on 22.02.2022

M/s. Dalmia Cement (Bharat) Limited is proposing Bokaro Cement Manufacturing Works - A standalone Grinding Unit with Cement Production Capacity of 2.0 Million TPA (MTPA) and D.G. Set of 1000 KVA (2 x 500 KVA) at Plot No. IV/A-7(P)4, Notified Bokaro Industrial Area under JIADA, Balidih Phase-4, Bokaro-827014, Jharkhand.

#### Salient Features of the Project

S. No.	PARTICULARS	DETAILS	
A.	Nature of the Project	A Standalone Grinding Unit	
B.	Size of the Project	<b>Units</b>	<b>Proposed Capacity</b>
		Cement (MTPA)	2.0
		D.G. Set (KVA)	2 x 500
C.	Location Details		
	Village	Gorabali, Notified Bokaro Industrial Area under JIADA, Phase-4, Thana- Jaridih	
	Tehsil	Chas	
	District	Bokaro	
	State	Jharkhand	
	Latitude	23°41'52.2813"N to 23°41'42.0659"N	
	Longitude	086°03'57.9296"E to 086°03'46.3512" E	
	SOI Toposheet No.	Project Site: F45C2 Study Area: F45C2, F45C1 & F45B14	
D.	Area Details		
	Total Project Area	Plant area- 15.75 Acres (6.374 ha)	
	Greenbelt area	5.2 Acres (33% of total land area)	
E.	Environmental Setting Details (with approximate aerial distance & direction from proposed project site)		
F.	Nearest Village	Village Gorabali (0.5km in SW)	

S. No.	PARTICULARS	DETAILS
1.	Nearest Town	Phusro (9.8 km in North-West direction)
2.	Nearest City	Bokaro (9.9 km in South-East direction)
3.	Nearest National Highway / State Highway	<ul style="list-style-type: none"> <li>o NH - 320 (earlier NH-23) 4 km in South direction</li> <li>o NH - 18 (15 km in South-East direction)</li> </ul>
4.	Nearest Railway station	<ul style="list-style-type: none"> <li>o Bokaro Steel City Railway Station (4.4 km in SSE direction)</li> <li>o Tupkadih Railway Station (1.4 km in North direction)</li> </ul>
5.	Nearest Airport	Ranchi Airport (100 km in South-West direction)
6.	National Parks, Wildlife Sanctuaries, Biosphere Reserves, Reserve Forest (RF) / Protected Forest (PF) within 10 km radius.	<p>No National Park, Wildlife Sanctuary, Biosphere Reserve, Reserve Forest (RF) falls within 10 km radius of the project site. However, few patches of PF and open jungle exist within study area. These are</p> <ol style="list-style-type: none"> <li>1. Dakbera Open Jungle- 3.5km W</li> <li>2. Barwapani Fairly dense jungle- 7.5kmW</li> <li>3. PF in North Direction – 6.3 km</li> <li>4. Chiubera PF -4.7km NE</li> </ol>
7.	Water Bodies (within 10 km radius)	<ol style="list-style-type: none"> <li>1. Damodar River (5.15 km in NE direction)</li> <li>2. Garga Dam (6.4 km in South direction)</li> <li>3. Khanjo Nadi (5.5 km in West direction)</li> </ol>
8.	Archaeological Sites	No Archaeological Sites Within 10 km radius
9.	Seismic Zone	The project site lies in Zone - III of Seismic Zoning Map of India, Bureau of Indian Standards.
H.	Cost Details	
1.	Total Cost of the Project	Rs. 576 Crores
2.	Cost for Environment Management Plan	<ul style="list-style-type: none"> <li>o Capital Cost - Rs. 31.6 Crores</li> <li>o Recurring Cost - Rs. 1.1 Crores</li> </ul>
1.	Basic Requirements for the project	
	Water Requirement	150 KLD Source: Application for sourcing of water

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S. No.	PARTICULARS	DETAILS
		has been filed with JIADA . Rain water harvesting plan will be adopted to reduce fresh water demand.
	Power Requirement	12 MW <b>Source:</b> An application has been filed to DVC for securing power and D.G. Set has been proposed for emergency back-up. Roof Top Solar Panels will also be installed within plant premises.
Manpower Requirement (Persons)		
<b>Construction/Implementation phase (no.)</b>		64
<b>Operation phase (no.)</b>		
Regular		39
Contractual		250
<b>Total</b>		<b>289</b>
<b>Total (no.)</b>		<b>353</b>
Locals will be given preference in employment as per their eligibility.		

**Khata no. & Plot no. of the Project :**

**Khata No. :** 134,76,177,46,45,171,47,145,78,65,135,72 **Khesra No. :** 892, 781(P), 777, 784(P), 779(P), 778(P), 782(P), 783(P), 887(P), 890, 888(P), 880(P), 852(P), 891, 960(P), 850(P), 893(P), 851(P), 858(P), 871, 957(P), 870(P), 958, 884, 885, 886, 776(P), 883, 882, 875, 862, 876, 881, 879, 878, 874, 863, 866, 873, 864, 868(P), 861, 867(P), 865.

The details of composition required for the cement manufacturing have been envisaged as below:

S. No.	Component	Proportion by weight (%)
		PSC
1.	Clinker	33
2.	Gypsum	2
3.	Slag	Upto 65

**Capacities and sizing of major equipment's proposed**

S. No.	Particulars	Unit	Capacity
1.	Truck Tippler & Box Feeder	TPH	2 x 300
2.	Wagon Tippler	TPH	1800

3.	Stacker Reclaimer	TPH	1800 / 300
4.	Slag unloading	TPH	200
5.	Startup HAG	Mkcal/hr	25
6.	Cement Mill (VRM) – Max.	MTPA	2.5
7.	Packer	TPH	2 x 240
8.	Truck & Wagon Loaders	TPH	12 x 120

#### Proposed Storage Capacities

S. No.	Materials	Storage Capacity (Tonnes)
1.	Clinker	1 x 50,000
2.	Gypsum	1 x 5000
3.	Slag	1 x 25000
4.	Cement	2 x 5000
5.	LSHS/HSD	1x30 KL
6.	Coal	1 x 4500

#### Raw Material Requirement

S. No.	Raw material				
		Quantity (MTPA)	Source	Mode of Transportation	Distance (Kms.)
1.	Clinker	0.66	Unit of DCBL at Rajgangpur, Odisha	Rail (100%)	323
2.	Gypsum	0.04	Paradip, Odisha	Rail (100%)	500
3.	Slag	1.30	RSP/TATA STEEL/BSL	Rail (100%)	287

#### Transportation of Materials

S. No.	Materials detail	Rail (Quantity in MTPA)	Road (Quantity in MTPA)
A	Raw Materials / Material (Inward)*		
1.	Clinker	0.66	-
2.	Slag	1.30	-
3.	Coal	-	0.03
4.	Gypsum	0.04	-
	Sub Total	2.0	0.03
B	Product (Outward)		
1.	Cement (PSC)	1.67	0.33

Total	3.67	0.36
% of Total Material Handling	91%	9%

#### STATUTORY CLEARANCES

1	CO	:	The CO, Chas (Bokaro) vide letter no. 2436, dated 29.11.2021 has mentioned the plot no. of the project is recorded as "Kadim / Dhan / Parti Jadid" in Khatiyon.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2058, dated 28.11.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	DFO Forest Distance	:	DFO, Bokaro Forest Division vide letter no. 3546 dated 21.12.2021 certified that the distance of Reserved Forest / Protected Forest from the project site is more than 250 m.

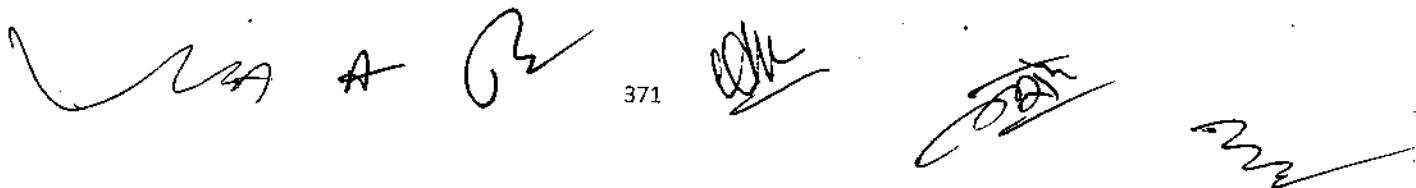
During the presentation the following documents were sought :

- I. Details of green belt and green cover to be provided on site plan.
- II. Revised rain water harvesting proposal to be provided.
- III. MoU for use of railway siding of the existing plant adjacent to the proposed plant.
- IV. Details of pollution control devices to be installed.
- V. MoU for purchase of slag & clinker by railway.
- VI. Details of product transported by railway to be provided.

The PAs have submitted the above required documents.

Based on the presentation made and information provided, the Committee decided that the proposal for Proposed Bokaro Cement Manufacturing Works-Green Field Standalone Grinding Unit with Cement Production Capacity of 2.0 million TPA & DG set of 1000 KVA (2x500 KVA) of M/s Dalmia Cement (Bharat) Limited (DCBL), Village : Gorabali, Notified Bokaro Industrial Area under JIADA, Balidih Phase 4 Bokaro, Jharkhand is recommended for grant of EC. The various conditions for grant of EC is enclosed as Annexure - VII alongwith the following specific conditions :

- I. 100% transportation of raw material by rail and 70% product by rail must be ensured.
- II. Environment management system to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- III. Rooftop rain water harvesting to ensure 100% Recharge/Use of rainfall. Storm water runoff to be collected in collection chamber /settling pond and maximise its use
- IV. All raw material to be stored only under covered shed.
- V. PAs to ensure ZERO DISCHARGE for its process discharges.



- VI. PAs to offset (>20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
- VII. The environmental clearance is subject to the permission for supply of water from a competent authority.
- VIII. The baseline data & Modeling for the month of March, 2022 is to be collected by the consultant AMPL Environ Pvt. Ltd., Hyderabad and submitted to SEIAA / SEAC within April, 2022.

Day 6 : February 23, 2022 [Wednesday]

**Consideration of Proposals**

1. **Proposed expansion of existing SMS of M/s Radhagopal Ispat LLP, Village : Konra, Barhi Industrial Area, Tehsil : Barhi, Dist. : Hazaribagh, Jharkhand.**

(Proposal No. : SIA/JH/IND/66453 /2021).

**Name of the consultant : AMPL Environ (Private) Ltd., Hyderabad**

This is a expansion project which has been taken for appraisal on 23.02.2022.

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

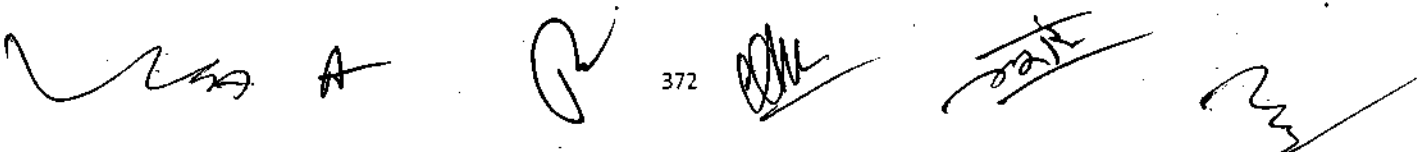
**Project background :**

The proponent is M/S RADHAGOPAL ISPAT LLP at Village-Konra, Brahi Industrial Area, Hazaribagh district of Jharkhand state. RADHAGOPAL ISPAT LLP presently owns a steel melting shop of benchmark capacity 27000 TPA adopting Induction Furnace based ingots/billet manufacturing plant at Notified Brahi Industrial area, Konra village, Barhi Hazaribagh district of Jharkhand state. RGILLP is now contemplating expansion of steel melting shop with matching Concast facilities consisting 1x8T existing Induction Furnace + 2x15T purposed Induction furnace for manufacturing of ingots/billets of capacity 91200 (TPA) .

This project will be with an aim to manufacture MS Billets/Ingots of capacity 91,200 TPA (including existing facilities). The target production will be achieved in small steps over the next two years. The required water, power and workforce are all available from nearby area. The industrial land is already in possession of unit and hence infrastructure is constructed, so that operation will commence promptly. This site area is of medium dimension, has a connecting road and has approachability. This site is connected with Damodar Valley Corporation.

The estimated cost for the expansion of existing plant will be Rs. 18.0 Crores.

**Latitude & Longitude :**

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Latitude	Longitude
24° 18' 25.57" N	85° 50' 13.72" E
24° 18' 20.13" N	86° 50' 9.48" E
24° 18' 19.18" N	86° 50' 15.26" E
24° 18' 22.49" N	86° 50' 17.89" E

**Details of Khata no. & Plot no. of the project site :**

**Khata No. :** 19,42,23,7678,53,52,26,39

**Plot No. :** 676P,677P,678P,679P,680P,681P,682P,683P,808P,809,810

**Project details :**

This unit is in the field of manufacturing of MS Ingot/Billets and MS-Bar now the existing scenario and proposed project details are as follows :

S. No.	Details	Existing	Proposed	Total
1	Production Capacity TPA MS Ingot/billets	27,000	64,200	91,200
2	Area m <sup>2</sup>	25,400	0	25,400
3	Induction Furnace	1x8T	2x15T	38 T
4	Stack	32m height Top Dia 0.8m Bottom Dia 1.52m	-	1 no.
5	Fuel for furnace	Electric Power	Electric Power	Electric Power
6	Power(MVA)	4	10	14
7	D.G Set (KVA)	240	400	640
8	Water Requirement(KLD)	10 KLD	30KLD	40 KLD
9	Investment Cr.	9	18	27

**Product and by product :**

S. No.	Product	Capacity(TPA)		
		Existing	Additional	Total(TPA)
1	MS Billet/Ingot	27000	64,200	91,200
2	Slag	6000	24400	30400

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**Raw material details:**

Sl. No.	Name	Quantity Existing (TPA)	Quantity additional (TPA)	Quantity Total (TPA)	Source & Distance	Transportation
1	Sponge Iron	10,240	38,400	48,640	Ramgarh	Road
2	Iron Scrap	5120	19,200	24,320	Ramgarh	Road
3	1 mm sponge +Recovered Metal	6830	25,612	32,442	Rourkela	Road
4	Steel scrap	3410	12,788	16,198	Jamshedpur	Road
	Total	25,600	96,000	121,600		

**Site analysis :**

Barhi is a census town and headquarters of a subdivision in the Barhi CD block in the Barhi subdivision of the Hazaribagh district in the state of Jharkhand, India. It stands at the crossing of NH 19 (old number NH 2)/ Grand Trunk Road. All major buses on the Ranchi-Patna, Ranchi-Gaya, Dhanbad-Patna and Dhanbad-Gaya routes pass through Barhi.

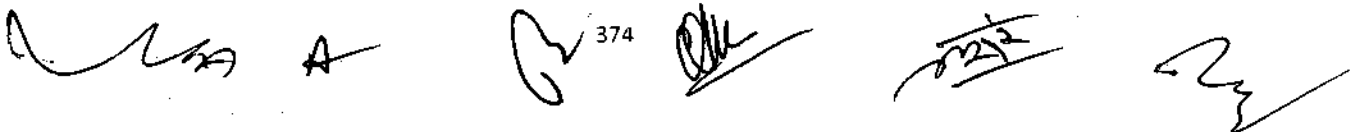
**Wastewater treatment and disposal :**

Waste water will be generated due to water softener/RO plant. All water will be used within the premises for wetting road, dust suppression, & spraying.

Sanitary waste water is/will be treated in septic tank followed by sub-surface dispersion trench.

**STATUTORY CLEARANCES :**

1	CO	:	The CO, Barhi (Hazaribag) vide letter no. 482, dated 10.07.2021 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan & Register II.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1103, dated 06.07.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.

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3	DFO Forest Distance	:	DFO, Hazaribagh West Division vide letter no. 2845, Dated 11.08.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
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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 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure VI. alongwith the following specific conditions :

- i. Certified compliance report of existing CTO from JSPCB.
- ii. Permission for drawal of water from CGWA.
- iii. Permission for supply of Electric to be provided.
- iv. Usage of storm water to be provided.
- v. MoU for supply of slag after recovery of metal.
- vi. TCLP test report for the slag of the existing plant from NABL accridited laboratory to be provided.
- vii. One season baseline data to be generated.

2. Modification cum Expansion of existing Re-Rolling Mill of M/s Saluja Steel & Power (P) Ltd., Mouza : Mohanpur, P.S. : Mahtoahdih, Dist. : Giridih, Jharkhand.

(Proposal No. : SIA/JH/IND/66215 /2018).

The PAs vide email dated 23.02.2022 has requested for deferment of the proposal. Hence, the proposal will be taken up for consideration after request of PAs.

3. Residential Complex "Samriddhi Park" of M/s Iika Estates Private Limited (Prop: Sri Akash Adukia), at Village : Arra, Arra Gate, Tehsil : Namkum, Dist : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/72415/2022).

This is a case of violation which has been taken for appraisal on 23.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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

EC Application for: Built-up area of 43807.44 sq m.

Name of the consultant:P & M SOLUTION, Noida

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**PROJECT and LOCATION Details:**

Parameters	Description
Plot Area	19476.76 m <sup>2</sup>
Location	Village Arra, Thana Tatisilway, Arra Gate, Namkum Ranchi, Jharkhand
Project Cost	INR 58 Crores
Built-up Area	43807.44 m <sup>2</sup>
Green Area	4040.60 m <sup>2</sup> (@20.75% of plot area)
Population	2211 Nos.
Water Requirement	129 KLD
Fresh Water Requirement	73 KLD
Wastewater Generation	90 KLD
STP Capacity	120 KLD
Total Municipal Waste	611 kg/day
Power Requirement	1400 KVA (Jharkhand State Electricity board)
DG Sets	320 KVA (2 numbers)
RWH Pits	3 Nos.
Parking	3S3
Connecting road	SH 1 (0.2 km, N)
National Highway & Roads	<ul style="list-style-type: none"> <li>• SH 1 (0.2 km, N).</li> </ul>
Nearst Railway Station	<ul style="list-style-type: none"> <li>• Ranchi Junction (7.0 km, West)</li> </ul>
Airport	Birsa Munda Airport 9.8 km, SW)
Nearest Hospitals	<ul style="list-style-type: none"> <li>• Shree super specialty hospital(1.29 km, NW)</li> <li>• RC Mission Middle School (0.1 km, W)</li> <li>• Rajkiya Hansraj Wadhwa High School (1.9 km, NW)</li> <li>• St Katherine High School (0.6 km, S)</li> <li>• Sarala Birla Public School (1.3 km, NE)</li> <li>• Military Hospital (2.4 km, W)</li> <li>• Dwarika Hospital &amp; Research Centre (3.5 km, E)</li> </ul>

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**CO-ORDINATES**

Coordinates	23.350893°N	85.402074°E
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**LAND DETAILS**

Khata no.	Plot no.
58	1608
8	1823
66	1825

**Area Summary :**

Land Area	19,476.76 sq.m
Width of Abutting Road	8.50 m (avg.)
Permissible Ground Coverage	50 % of the Plot Area = 9,738.38 sq.m
Permissible F.A.R.	2.5
Proposed Ground Coverage	5,753.47 sq.m (29.54% of Land Area)
Proposed F.A.R.	1.98
Proposed Total Built Up Area	43,807.44 sq.m
Proposed No. of Building	<b>7 (Residential = 6, Club &amp; Community = 1)</b>
Proposed Building Inventory	Block 1A (Residential)= G + 7 storied (24.0m from G.L.) Block 1B (Residential) = G + 7 storied (24.0m from G.L.) Block 2 (Residential) = G + 7 storied (24.0m from G.L.) Block 3 (Residential) = G + 8 storied (27.0m from G.L.) Block 4A (Residential) = G + 8 storied (27.0m from G.L.) Block 4B (Residential) = G + 8 storied (27.0m from G.L.) Club & Community Block = Ground storied
Proposed Nos. of Flat	344 Nos. (2BHK = 81 Nos, 3BHK = 263 Nos.)
Proposed Nos. of Car Parking	353 Nos. (Covered = 158 nos., Open = 195 nos.)

**Proposed Landuse Distribution:**

Development Component	Area & Percentage	
	Area (sq.m)	% of Land Area
Ground Coverage	5,753.47	29.54
Services & Utilities*	754.69	3.87
Internal Road Area (Paved)	3,874.87	19.89
Semi-paved surface incl. open car parking	3,848.66	19.76
Landscape Green Area	4,040.60	20.75
Swimming Pool	264.54	1.36
Soft Area	674.90	3.47
Area for Road Widening	265.03	1.36
<b>TOTAL</b>	<b>19,476.76</b>	<b>100.00</b>

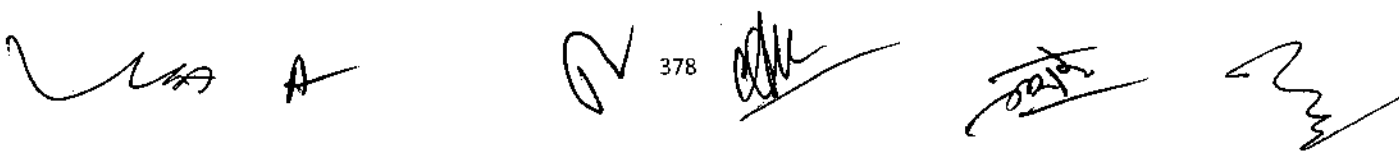
**STATUTORY CLEARANCES**

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 515, dated 09.02.2021 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 92, dated 10.02.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Namkum, Ranchi vide letter no. 862, dated 11.08.2021 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyan.
4	AAI NOC	:	An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/ 111520/ 510320 date 27.11.2020.
5	Fire Department	:	A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 91/tech/2021 dated 07.01.2021

**Water and waste water Requirement Details**

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement-KLD	Fresh Water Requirement-KLD	Recycled Water requirement-KLD
<b>Domestic</b>					
Residents	1983	50	100	70	30
Staff	30	45	1.35	0.85	0.5
Visitors	198	30	2.97	1.97	1.0
<b>Total Domestic Water Demand</b>			<b>104</b>	<b>73</b>	<b>31</b>
Landscape	4040.6 sq m	5 l/day	20.2	0	20.2
DG cooling	2*320 KVA	0.9l/KVA/day	5	0	5
<b>Total</b>			<b>129</b>	<b>73</b>	<b>56</b>

Category	Total Quantity (KLD)
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Fresh water Req.	73
Flushing water Req.	31
Sewage generation (@80% of the fresh water consumption + 100% flushing water)	90
Capacity of STP	120
Recovered water from STP	81
1. Flushing	31
2. Landscaping	20.2
3. DG cooling	5
4. Car Washing/Road Washing/Sewer	24

### Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	To be Disposed (Kg/day)	Recyclable (kg/day)
1.	Residents	1983	0.3	594.9	415.9	179
2.	Staff	30	0.2	6.0	4.2	1.8
3.	Visitors	198	0.05	9.9	6.7	3.2
Total Waste Generated				610.8	426.8	184

### ENVIRONMENT MANAGEMENT

#### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 4040.60 m<sup>2</sup> (@20.75% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

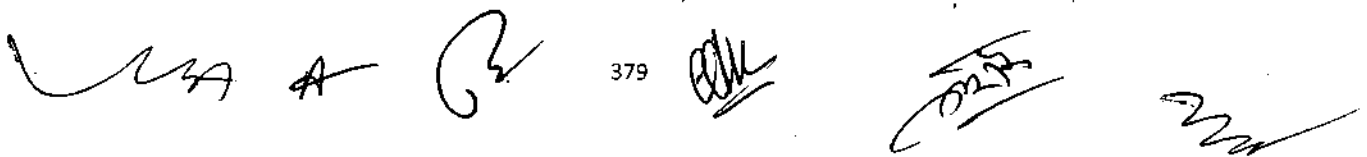
#### Solid Waste Management

##### ❖ Collection, Segregation and treatment of waste

- Door to door collection system will be provided for collection of domestic waste
- Local vendors will be hired for waste collection, management and disposal
- Separate colored bins for compostable (wet waste), recyclables and rejected waste will be provided to residents as well as in common and open areas
- Wet waste will be composted within the site in Organic Waste Convertor

##### ❖ Disposal

- Rejected fraction of the waste will be collected and disposed by local agencies on daily basis at the locations designated by Nagar Parishad. Recyclable waste and E-waste will be sold to authorized vendors
- Used oil from DG sets will be sold to authorized vendors



## **Water Quality Management**

### **During Construction Phase**

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

### **During Operation Phase**

- STP of capacity i.e.120 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Flushing, landscaping and road washing
- Use of water efficient plumbing fixtures to conserve water.
- Approx.73 KLD of fresh water is required during operational phase of the project.

## **Air Quality Management**

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

## **Energy conservation**


solar street lights will be provided at site.

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 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

4. Residential Apartment Project "SG Exotica" of Sri Subhash Kumar & Sri Gautam Modi, Village : Lalpur, Thana no. : 02, Tehsil : Ranchi Sahar, Dist. : Ranchi, Jharkhand.

(Proposal No. : SIA/JH/MIS/72418/2022).

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This is a case of violation which has been taken for appraisal on 23.02.2022 in the light of OM no. F.No.22-21/2020-IA.III[E 138949 ] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

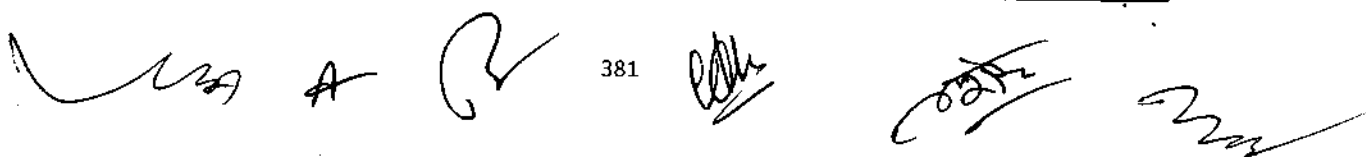
Project is classified as Category 8(a) as per EIA Notification as the built up area is less than 1,50,000 sq m and development area is less than 50 ha.

**EC Application for: Built-up area of 35486.81 sq m.**

**Name of the consultant: P & M SOLUTION, Noida**

**PROJECT and LOCATION Details:**

Parameters	Description
Plot Area	10840 m <sup>2</sup>
Location	VILLAGE & THANA LALPUR, HAZARIBAGH ROAD RANCHI, Jharkhand
Project Cost	INR 50 Crores
Built-up Area	35486.81 m <sup>2</sup>
Green Area	1606 sq m (15 % of plot area)
Population	430 Nos.
Water Requirement	29 KLD
Fresh Water Requirement	1 4KLD
Wastewater Generation	20 KLD
STP Capacity	50 KLD
Total Municipal Waste	205 kg/day
Power Requirement	600 KVA (Jharkhand State Electricity board)
DG Sets	500 KVA
RWH Pits	3 Nos.
Parking	78
Connecting road	Hazaribagh Road (30 m, S).
National Highway& Roads	<ul style="list-style-type: none"> <li>• Hazaribagh Road (30 m, S).</li> </ul>
Nearest Railway Station	<ul style="list-style-type: none"> <li>• Ranchi Junction (2.9 km, S)</li> </ul>
Airport	Birsa Munda Airport 7.0 km, S)


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Nearest Hospitals	<ul style="list-style-type: none"> <li>• S St Thomas School (0.4 km, NW)</li> <li>• Little Pearls School (0.5 km, W)</li> <li>• Tulip Kids School (0.5 km, SE)</li> <li>• KC Roy Memorial hospital (0.6 km, S)</li> <li>• POC Hospital (1.2 km, NW)</li> </ul>
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**CO-ORDINATES**

Coordinates	23.374355°N	85.341860°E
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**LAND DETAILS**

<b>Khata no.</b>	<b>Plot no.</b>
02	1372, 146

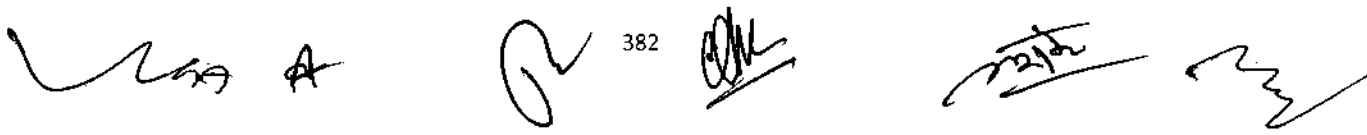
**Area Summary**

S. No.	Description	Area (sq m)
1.	Plot Area	10,840.15
2.	Road Widening	129.68
3.	Net Plot Area	10,710.47
4.	Ground Coverage (23.40%)	2507.25
5.	FAR (@2.496)	27060
6.	Non FAR	8426.18
7.	Built-up Area	35486.81
8.	Green Area (@10% of net plotarea)	1071
9.	No of Dwelling Units	78
10.	Height	87.4 m

**STATUTORY CLEARANCES**

1	DFO Forest Distance	:	DFO, Ranchi Forest Division vide letter no. 511, dated 18.02.2022 certified that the distance of reserved / protected forest is more than 250 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Ranchi Division vide letter no. 147, dated 21.02.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Shahar, Ranchi vide letter no. 154, dated 22.02.2022 has mentioned the plot no. of the project is not recorded as "Jangle

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		Jhari" in R.S. Khatiyan.
4	AAI NOC	: An application has been made for height clearance from Airports Authority of India vide application no RANC/EAST/B/ 030720/451470 date 27.04.2020.
5	Fire Department	: A Certificate from Fire Department, Ranchi, Govt. of Jharkhand vide letter no. 2213/tech/2020 dated 16.10.2020

#### Water and waste water Requirement Details

Category	Population/Area (sq m)/Capacity	Standard (LPCD)	Water Requirement-KLD	Fresh Water Requirement-KLD	Recycled Water requirement-KLD
<b>Domestic</b>					
Residents	390	50	20	14	7
Staff	20	45	1	0.5	0.5
Visitors	20	15	0.3	0.2	0.1
<b>Total Domestic Water Demand</b>			<b>22</b>	<b>14</b>	<b>8</b>
Landscape	1071 sq m	3 l/day	3	0	3
DG cooling	500 KVA	0.9 l/KVA/day	4	0	4
<b>Total</b>			<b>29</b>	<b>14</b>	<b>15</b>

Category	Total Quantity (KLD)
Fresh water Req.	14
Flushing water Req.	8
Sewage generation (@80% of the fresh water consumption + 100% flushing water)	20
Capacity of STP	50

Recovered water from STP (90% of Waste water)	18
1. Flushing	8
2. Landscaping	3
3. Dg cooling	4
4. Road washing	3

### Solid Waste Requirement

S. No	Description	Occupancy/Area	kg/capita/day	Total Solid Waste Generation (kg/day)	Non-Recyclable (Kg/day)	Recyclable (kg/day)
1.	Residents	390	0.5	195	137	58
2.	Staff	20	0.25	5	3.5	1.5
3.	Visitors	20	0.15	3	2.5	0.5
4.	Landscape waste	0.26 acres	0.2	0.05	0	0.05
Total Waste Generated				203	143	160
7.	STP sludge	50 KLD	--	2	2	0

### ENVIRONMENT MANAGEMENT

#### Green Belt Development

- Combination of local trees and shrubs are planned within the project site.
- Green area will be provided in 1606 m<sup>2</sup> (@15% of plot area) which will enhance the beauty of the site and help combat air and noise pollution.
- The plant species will be selected on the basis of Guidelines for Developing Green Belts, CPCB March 2000.

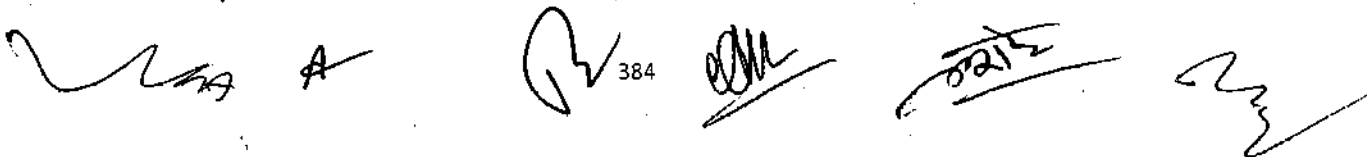
#### Solid Waste Management

##### ❖ Collection, Segregation and treatment of waste

- Door to door collection system will be provided for collection of domestic waste
- Local vendors will be hired for waste collection, management and disposal
- Separate colored bins for compostable (wet waste), recyclables and rejected waste will be provided to residents as well as in common and open areas
- Wet waste will be composted within the site in Organic Waste Converter

##### ❖ Disposal

- Rejected fraction of the waste will be collected and disposed by local agencies on daily basis at the locations designated by Nagar Parishad. Recyclable waste and E-waste will be sold to authorized vendors


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- d. Used oil from DG sets will be sold to authorized vendors

### **Water Quality Management**

#### **During Construction Phase**

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

#### **During Operation Phase**

- STP of capacity i.e.50 KLD is proposed for treatment of wastewater.
- Treated waste water would be reused for Flushing, landscaping and road washing
- Use of water efficient plumbing fixtures to conserve water.
- Approx.29 KLD of fresh water is required during operational phase of the project.

### **Air Quality Management**

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

### **Energy conservation**

solar street lights will be provided at site.

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 18, 19, 20, 21, 22, 23, 24, 25, 26 & 27.02.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study as mentioned in Annexure III alongwith following specific condition :

- I. One month additional monitoring will be done during the month of March, 2022.
- II. Excess water from the STP shall not be discharged out side of premises and appropriate utilization should be ensured.

