

PROFORMA FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS
(MINING SECTOR PROJECTS)

- Note 1: All information to be given in the form of Annex/s should be properly numbered and form part of reply to this Performa.
- Note 2: Please enter ✓ in appropriate box where answer is Yes / No
- Note 3: No abbreviation to be used - **Not available** or **Not applicable** should be clearly mentioned.
- Note 4: **Core zone** is the mining lease area.
Buffer zone in case of ML area up to 25 ha is to be considered as **5 km** all around the periphery of the core zone and for ML area above 25 ha an area **10 km** all around the periphery of the core zone.
- Note 5: Adopt **Scoping process** in carrying out EIA study.

1.	General information	
a	Name of the project	Sand Mining Project Block – 48 (Gaya Mohana-04/05/06) Sand Ghat on Mohana River (62.0 ha) for a Peak Production of 20,08,800 TPA at Khasra No. – 183, 410, 181, 136, 532, 01, 176, 2219, 3315, 01, 119, 505, 2004, 1297, Khata No. – 133, 46, 28, 57, 102, 174, 69, 216, Thana No. – 416, 417, 404, 26, 405, 378, 377, 360, 362 Village-Itwan, Saranchak, Bulkichak, Dhorhi, Mehiyan, Ajnawan, Jariyahi, Musaila & Shahpur, Anchal- Mohanpur, District-Gaya, Bihar
I	Name of the proponent	M/s Ramiya Construction Private Limited
ii	Mailing Address	M/s Ramiya Construction Private Limited R/o 51 A.P. Colony, Gaya.
	E-mail	-
	Telephone	-
	Fax No.	-
b	Objective of the project	Mining of Sand
c	Location of mine (Buffer Map is attached as Annexure-I)	
	Village	Itwan, Saranchak, Bulkichak, Dhorhi, Mehiyan, Ajnawan, Jariyahi, Musaila & Shahpur
	Tehsil/Anchal	Anchal- Mohanpur
	District	Gaya
	State	Bihar

d	Does the proposal relate to	Yes	No																																																						
i	New mine	√	-																																																						
ii	Expansion	-	√																																																						
iii	Increase in ML area	-	√																																																						
iv	Increase in annual production	-	√																																																						
v	Renewal of ML	-	√																																																						
vi	Modernization	-	√																																																						
e	Site Information																																																								
i	Geographical Location																																																								
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	Survey of India Topo sheet number	G4514/S15/G45T2 Mining Lease & G45T3																																																							
	Elevation above Mean Sea Level	-																																																							
	Total mining lease area (in ha.)	62.0 ha																																																							
ii	Dominant nature of terrain	Yes	No																																																						
	Flat	√	-																																																						
	Undulated	-	√																																																						
	Hilly	-	√																																																						
2.	Land usage of the mining lease area (in ha.)																																																								
a	Agricultural	-																																																							
b	Forest (Jungle-jhari)	-																																																							
c	Waste land (G.M.Land)	--																																																							
d	Grazing	--																																																							
e	Surface water bodies	--																																																							
f	Others (River Bed)	62.0 ha																																																							
g	Others (Road)	--																																																							
	Total	62.0 ha																																																							
3.	Indicate the seismic zone in which ML area falls. In case of zone IV & V, details of earthquakes in last 10 years.	Seismic Zone- III																																																							
a	Severity (Richter Scale)																																																								
b	Impact i.e. Damage to	Yes	No																																																						
	Life	-	√																																																						

	Property	-	√
	Existing mine	-	√

4. Break-up of mining lease area (in ha.) as per approved conceptual plan:

Purpose	Mining Lease Area				Total	Area acquired				Area to be acquired			
	Government		Private			Government		Private		Government		Private	
	Forest	Others	Agri.	Others		Forest	Others	Agri	Others	Forest	Other	Agri.	Others
1. Area to be excavated	-	62.0	-	-	62.0	-	62.0	-	-	-	-	-	-
2. Storage for top soil	-	-	-	-	-	-	-	-	-	-	-	-	-
3. Overburden / Dumps	-	-	-	--	--	-	-	-	--	-	-	-	-
4. Mineral storage	-	-	-	-	-	-	-	-	-	-	-	-	-
5. Infrastructure (Workshop, Administrative Building)	-	-	-	--	--	-	-	-	--	-	-	-	-
6. Roads	-	-	-	-	-	-	-	-	-	-	-	-	-
7. Railways	-	-	-	-	-	-	-	-	-	-	-	-	-
8. Green Belt	-	-	-	-	-	-	-	-	-	-	-	-	-
9.Parapet wall	-	-	-	--	--	-	-	-	--	-	-	-	-
10.Garland Drain	-	-	-	--	--	-	-	-	--	-	-	-	-
11.Coal handling plant / mineral separation plant	-	-	-	--	--	-	-	-	--	-	-	-	-
12. Township area	-	-	-	-	-	-	-	-	-	-	-	-	-
13.Other (Land unused)	-	-	-	--	--	-	-	-	--	-	-	-	-
TOTAL	-	62.0	-	-	62.0	-	62.0	-	-	-	-	-	-

5	Township (outside mining lease)		Not Applicable	
a	Total area (in ha)		-	
b	No. of dwelling units		-	
c	Distance from mine site		-	
6	Distance of water bodies (in km)			
	Distance from	River Bank *	Other Water bodies * Sea / creek / lake / nalla etc. (specify)	
	Mining lease boundary	It is a river bed mining	-	
	Ancillary facilities	-	-	
[* From highest flood line / high tide line]				
7	For projects falling within the Coastal Regulation Zone (CRZ)			
	Whether the mineral to be mined is of rare nature and not available outside CRZ?	No	-	No
if yes, annex a scaled location map showing low tide line (LTL), high tide line (HTL) duly demarcated by one of the authorized agencies* [*Director, Space Application Centre, Ahmedabad: Centre for Earth Sciences Studies, Thiruvananthapuram: Institute of Remote Sensing, Anna University, Chennai: Institute of Wetland Management & Ecological Designs, KolKata: Naval Hydrographers's Office, Dehradun: National Institute of Oceanography, Panjim, Goa: and National Institute of Ocean Technology, Chennai], boundary of mining lease area, distance of ML area from LTL and HTL CRZ boundary and CRZ classification of the project area as per the approved Coastal Zone Management Plan, and settlements, sand dunes, mangroves, forest land/patches, turtles breeding and nesting sites etc., if any, in the project area.				
8	Indicate aerial distance from the periphery of core zone / area from the periphery of the buffer zone to the boundary of following (up to 10 km):			
S. No.	Area	Name	Aerial distance from (in km.)	
			Core Zone	Buffer Zone
1.	National Park / Sanctuary	Nil	-	-
2.	Biosphere Reserve / Tiger Reserve / Elephant	Nil		

	* Notified * Others			
7.	Defence Installation	Nil	-	-
8.	Industries / Thermal Power Plants	Nil	-	-
9.	Other Mines	-	-	-
10.	Airport	Gaya International Airport, Gaya, Bihar	-	16.70 Km in NW
11.	Railway Lines	Bansinala Halt station, Bihar	-	10.72 Km in ENE
12.	National / State Highways	- MDR Road - NH-19	-	4.36 Km in SE 7.72 Km in SSW

[* Buffer zone in case of ML area up to 25 ha. is to be considered as **5 km** all around the periphery of the core zone and for ML area above 25 ha. an area **10 km** all around the periphery of the core zone].

9. Description of flora & fauna separately in the core and buffer zones.*

[* Consult the Wildlife (Protection) Act, 1972 as amended subsequently and list species with (1) Common name (2) Scientific name and (3) under which schedule of the Wildlife (Protection) Act the identified species fall. Get the list authenticated by an Expert in the field / credible scientific institute / University / Chief Wildlife Warden Office. **Information to be based on field survey.]**

Kindly refer annexure-II for details.

10	Details of mineral reserves (as per approved Mining Plan)	Quantity (in cum)	
a	Proved	18,60,000 cum	
b	Indicated	-	
c	Inferred	-	
d	Mineable reserves	16,34,739 cum	
11	Major geological formation / disturbances in the mining lease area	Yes	No
a	Geological maps submitted (Annexure-III)	√	-
b	Geological sections submitted (Annexure-III)	-	√
c	Contour map submitted (Annexure-IV)	-	√
d	Whether the presence, if any, noted of		
I	Faults	-	√
Ii	Dykes	-	√
Iii	Shear Zone	-	√
Iv	Folds	-	√
V	Other weak zones	-	√
e	Source of data (Indicate)	-	
12	Production of mineral(s) and life of mine		
a	Rated capacity of mine mineral wise (Tonnes / annum)	20,08,800 TPA	
b	Life of mine at proposed capacity (Years)	-	

c	Lease period (Years)	5 years
d	Date of expiry of lease (D /M /Y)	-
e	Indicate in case of existing mines	-
i	Date of opening of mine	After environmental clearance
ii	Production in the last 5 years 1 st year 5 th year from year 2006-07 to year 2010-2011 in million tonnes.	-
iii	Projected production for the next 6 th to 10 th year 5 years from year 2011-12 to year 2014-15 in million tonnes.	-
iv	Whether mining was suspended after opening of the mine?	-
v	If yes, details thereof including last production figure and reason for the same.	-
f	Whether plans & sections provided?	Yes (Annexure-V)
13	Type and method of mining operations	
	TYPE	METHOD
	Opencast	Manual
	Underground	Mechanized
	Both	Semi-mechanized
14	Details of ancillary operations for mineral processing	
a	Existing	Not applicable
b	Additional	Not applicable
15	Mine details	
a	Opencast mine	
i	Stripping ratio (mineral in tonnes to over burden in m ³)	--
ii	Ultimate working depth (in m bgl)	3.0 m
iii	Indicate present working depth in case of existing mine (in m bgl)	-
iv	Thickness of top soil (in m.)	-
a	Minimum	--
b	Maximum	--
c	Average	--
v	Thickness of overburden (in m.)	--
a	Minimum	--
b	Maximum	--
c	Average	--
vi	Mining Plan	
a	Height and width of the bench in overburden / waste.	--
b	Height & width of the bench in ore body / coal seam.	-
c	Proposed inclination / slope of the sides of the opencast mine (separately for overburden, coal / ore and overall slope of the pit sides) both	-

	while operating the mine as well as at the time of closure of the mine.	
d	Whether transverse sections across the opencast mine at the end of fifth year and at the end of the life of the mine have been submitted?	Yes
vii	Type of blasting, if any, to be adopted	-
b	Underground mine-	Not Applicable
i	Seam / Ore body	
	Min.Depth (m)	-
	Max. Depth (m)	-
	Avg. thickness (m)	-
	Rate of dip	-
	Direction of dip in degree	-
ii	Mode of entry into the mine	
	Shaft	-
	Adit	-
	Incline	-
iii	Details of machinery	
	On surface	-
	At Face	-
	For transportation	-
	Others	-
iv	Method of stopping	
	Open	-
	Filled	-
	Shrinkage	-
	Caving	-
	Combination of above	-
	Others (Specify)	-
v	Extraction method	
	Caving	-
	Stowing	-
	Partial extraction	-
vi	Subsidence	
	Predicted max. subsidence (in m)	-
	Max. value of tensile strain (in mm/m)	-
	Max. slope change (in mm/m)	-
	Whether identified possible subsidence area(s) superimposed on Surface Plan has been submitted?	-
	Major impacts on surface features like natural drainage pattern, houses, buildings, water bodies, roads, forest, etc.	-
	Salient features of subsidence management (monitoring and control).	-
16	Surface drainage pattern at mine site	Yes No
a	Whether the pre-mining surface drainage plan submitted?	- ✓

b	Do you propose any modification / diversion in the existing natural drainage pattern at any stage? If yes, when. Provide location map indicating contours, dimensions of water body to be diverted, direction of flow of water and proposed route / changes, if any i.e. realignment of river / nallah / any other water body falling within core zone and its impact	-	√	
17	Embankment and / or weir construction			
a	Do you propose, at any stage, construction of			
i	Embankment for protection against flood?	No		
ii	Weir for water storage for the mine?	No		
b	If so, provide details thereof.	-		
c	Impact of embankment on HFL and settlement around.	-		
d	Impact of weir on downstream users of water	-		
18	Vehicular traffic density (outside the ML area)			
		Type of vehicles	No. of vehicles per day (in PCU)	
a	Existing	Car, Jeep , Truck	MDR Road: 472 SH-04: 816 NH 22: 2145	
b	After the proposed activity	Car, Jeep , Truck	MDR Road: 1633 SH-04: 1419 NH 22: 2748	
c	Whether the existing road network is adequate?	Yes		
	If no, provide details of alternative proposal?	-		
19	Loading, transportation and unloading of mineral and waste rocks on surface	Yes	No	
a	Manual	√	-	
b	Tubs, mine cars, etc.	-	√	
c	Scraper, shovels, dumpers / trucks	√	-	
d	Conveyors (belt, chain, etc.)	-	√	
e	Others (specify)	-	√	
20	Mineral(s) transportation outside the ML area			
		Qty. (in tonne)	Percentage (%)	Length (in km)
a	Road	8036	100	-
b	Rail	-	-	-
c	Conveyors	-	-	-
d	Rope way	-	-	-
e	Water ways	-	-	-
f	Pipeline	-	-	-
g	Others (Specify)	-	-	-
Total		8036	100	-

21. Baseline Meteorological and Air Quality data

(a) Micro-meteorological data

[Continuous monitoring through autographic instrument for one full season other than monsoon]

(i) Wind rose pattern for one full season (16 points of compass i.e. N, NNE, NE, ---) based on 24-hourly data. For coastal area also furnish day-time and night time data. (Attached as Annexure-VII)

- Day time
- Night time
- 24 – hours period

(ii) Site specific monitored data

Month	Wind Speed (km/h)			Temperature (°C)		
	Max	Avg	Calm%	Max	Min	Avg
March 2023	31	10	15	33.2	18.1	25.9
April 2023	30	9	10	38.8	23.5	31.3
May 2023	29	8	00	39.3	26.6	33

* 24-hour rainfall should be reported from 08:30 hrs. IST of previous day to 08:30 hrs. IST of the day.

* Rainy day is considered when 24 hrs. Rainfall is ≥ 2.5 mm.

** Visual observations of cloud cover should be recorded four times a day at regular intervals.

(iii) Indicate name and distance of the nearest IMD meteorological station from which climatological data have been obtained for reporting in the EIA report, if any.

(b) Ambient air quality data* (RPM, SPM, SO₂, and NO_x)

[*Monitoring should be carried out covering one full season except monsoon – same season as in 21 (a) (i)]

[*Frequency of sampling: Sampling to be done twice a week for the entire season 24 hourly for SPM & RPM. For gaseous pollutants 24- hourly data be given irrespective of the sampling period.]

(i) Season and period for which monitoring has been carried out. Winter **Season (March- May 2023)**

(ii) No. of samples collected at each monitoring station: **24**

Name of monitoring equipment used			PM _{2.5} (µg/ m ³)			PM ₁₀ (µg/ m ³)			SO ₂ (µg/ m ³)			NO _x (µg/ m ³)			Pb**		
			Envirotech FPS – APM 5.50			RDS 460 BL			APM 411 attachment with RDS 460 BL			APM 411 attachment with RDS 460 BL			-		
Equipment sensitivity			< 0.5 µg/m ³ from 0.000 mg to 0.100 mg/ m ³			< 0.5 µg/m ³ from 0.000 mg to 0.100 mg/ m ³			< 0.5 µg/m ³ from 0.000 mg to 0.100 mg/ m ³			< 0.5 µg/m ³ from 0.000 mg to 0.100 mg/ m ³			-		
Permissible AAQ standard (CPCB) R I S			60 µg/m ³			100 µg/m ³			80 µg/m ³			80 µg/m ³			-		
			60 µg/m ³			100 µg/m ³			80 µg/m ³			80 µg/m ³			-		
			60 µg/m ³			100 µg/m ³			80 µg/m ³			80 µg/m ³			-		
Monitorin g Location	No. of Sample s Drawn	Categ ory* (R, I, S)	Min	Max	98% tile	Min	Max	98% tile	Min.	Max.	98% tile	Min.	Max.	98% tile	Min	Max	98 % tile
AQ1	24	R	55.68	86.8	86.29	39.97	55.85	55.38	4.28	12.65	12.22	3.84	14.52	13.78	-	-	-
AQ2	24	R	65.25	87.15	85.92	40.32	55.67	54.70	7.1	17.12	15.64	7.88	13.85	13.41	-	-	-
AQ3	24	R	60.3	86.19	85.77	33.5	54.5	53.89	7.34	14.54	14.20	8.4	13.98	13.85	-	-	-
AQ4	24	I	60.4	89.4	88.14	39.45	55.64	53.95	6.67	12.9	12.88	7.81	17.9	15.96	-	-	-
AQ5	24	I	62.34	83.16	82.73	30.65	52.85	52.77	6.49	12.52	12.03	6.97	16.29	15.97	-	-	-
AQ6	24	I	61.32	84.58	83.35	30.3	52.82	52.07	5.97	13.94	13.01	7.85	14.42	14.18	-	-	-
AQ7	24	I	60.24	89.4	89.08	40.35	55.64	54.41	7.24	12.8	12.60	7.85	17.9	15.96	-	-	-
AQ8	24	I	60.5	82.78	82.32	37.47	51.5	51.45	5.79	12.45	11.94	6.35	13.54	13.13	-	-	-

*R = Residential; I = Industrial; S = Sensitive

**Pb for mineral specific sites only.

Annex a location map indicating location of AAQ stations, their direction and distance with respect to project site.

(AAQ station location map is attached annexure-VIII)

22. Stack and emission details, if any***Not Applicable**

S. No.	Process / unit of operation (e.g. DG Set, Boiler)	Height of stack (m)	Internal top dia. (m)	Flue gas exit velocity (m/sec)	Emission rate (kg/hr)				Heat emission rate from top of stack (K.cal/hr)	Exhaust / Flue gas			
					SPM	SO ₂	NO _x	CO		Temp °C	Density	Specific Heat	Volumetric flow rate (m ³ /hr.)

23. Details of fugitive emissions during mining operations*

Given in Chapter 4

24. Air Quality Impact Prediction (AQIP)* Not Applicable

- (a) Details of model(s) used for AQIP including grid size, terrain features, and input meteorological data
- (b) Maximum incremental GLC values of pollutants based on prediction exercise

S. No.	Pollutants	Incremental Value	Ambient Air Quality	Resultant Air Quality
				(in µg/m ³)
1.	SPM	6.2	86.29	92.49
2**.	SO ₂			
3**.	NO _x			

[* Question Number 22, 23 & 24 need not be filled-in for mines having ML area of **25 ha. or less.**]

[**Information on item no. 2 & 3 to be provided in cases with captive power generation of 500 KVA and above]

25. Water requirement (m³/day)

Purpose	Avg. Demand	Peak Demand
A. Mine site		
1. Mine operation	-	-
2. Land reclamation	-	-
3. Dust suppression	6.72	6.72
4. Drinking & domestic	1.30	1.30
5. Green Belt	1.24	1.24
6. Beneficiation	-	-
7. Washeries	-	-
8. Fire Service	-	-
9. Others (Mining and Allied Activities))	-	-
B. Township		
1. Green Belt	-	-
2. Domestic	-	-
C. Other (specify)	-	-
Total	9.26	9.26

26. Source of water supply*

S. No.	Source	m ³ /day
1	River (name)	-
2	Ground water	-
3	Mine water (sump / pit)	
4	Other surface water bodies (water will be tapped from plant supply)	9.26 KLD from nearby village

[*Annex a copy of sanction letter / permission from the concerned authority (Central Ground Water Authority in case of ground water abstraction is from notified area / State Ground Water Board in case of non-notified area / State Irrigation Department for surface water pumping) for drawing water.

27	Lean season flow in case of pumping from river / nalla (cumecs)	Not applicable
28	Ground water potential of the study area	-
28.1	Ground water availability	
a	Range of water table (m bgl)	-
i	Pre-monsoon (April/May)	

	Core Zone	5
	Buffer zone	10
ii	Post-monsoon (November)	
	Core Zone	3
	Buffer zone	8
b	Total annual replenishable recharge (million m ³ / year)	
i	By ground water table fluctuation method	-
ii	By rainfall infiltration factor method	-
c	Annual draft excluding estimated draft through mine discharge (million m ³ / year)	-
d	Estimated draft through mine discharge (million m ³ / year)	-
e	Net annual ground water availability (million m ³ / year)	-
f	Stage of ground water development (%)	-

28.2. Water demand - Competing users of the water source

S. No.	Usage	Present Consumption (m ³ /day)		Additional proposed as per local plan (m ³ /day)		Total (m ³ /day)	
		Surface	Ground	Surface	Ground	Surface	Ground
1	Domestic	-	-	-	1.30	-	1.30
2	Irrigation	-	-	-	-	-	-
3	Industry	-	-	-	-	-	-
4	Mining	-	-	-	-	-	-
5	Others (Dust suppression + Green belt)	-	-	7.96	-	7.96	-
Total		--	--	7.96	1.30	7.96	1.30

29. Water quality*

(a) Annex physico -chemical analysis of water at intake point **

(Attached as Annexure-IX).

(b) In case of existing mine, annex report on quality of water discharge i.e. complete physico - chemical analysis**
 [*For non-discharging mines at least four ground water samples to be taken preferably from downstream direction of the mine in pre-monsoon and post-monsoon periods and analysed. For discharging mines six samples are to be analysed]

**All parameters as per BIS 10500. Indicate name of Methodology, Equipment used for analysis, and Detection Level (DL) for each parameter.

*** Wherever any analytical parameter is below detection level, “BDL” (Below Detection Level) should be written instead of ‘NIL’.

30.	Impact on ground water regime / stream / lake / springs due to mine dewatering *	Not required
a	Radius of influence (in m) [To be estimated based on analysis of pumping test data and application of empirical formula]	-
b	Whether saline water ingress will take place?(applicable to coastal areas)	-
c	Impact on stream / lake / springs	-
[* Provide a comprehensive hydro-geological assessment report if the average mine dewatering is more than 100 m³/day and or going below water table in non-monsoon period. The report should be based on preferably latest one year pre-monsoon and post-monsoon baseline data covering information on ground water situation, aquifer characteristics, water level conditions (April – May and November), estimate of ground water resources, predicted impact of the project on ground water regime and detailed remedial / conservation measures such as artificial recharge of ground water etc. The report should be based on actual field inventory out of existing wells, at least 30 observation wells in the buffer zone with supplementary information from secondary sources (mention name). For estimation** of ground water resource (refer question no. 28 above) be designated study area of the buffer zone may be sub-divided into command and non-command areas, watershed-wise (in case of hard rock / consolidated formations) / block-wise / mandal-wise in case of alluvial / unconsolidated formations)] **For estimating ground water resources in the area follow the Ground Water Estimation Committee recommendations of 1997]		
31.	Waste Water Management	Not Applicable
a	Daily average discharge (m ³ /day) from different sources	-
i	Mine water discharge during	-
	Lean period	-
	Monsoon period	-
ii	Workshop	-
iii	Domestic (mine site)	-
iv	Beneficiation / Washeries	-
v	Coal Handling Plant	-
vi	Tailings pond	-
vii	Others (Specify)	-
	Total	-
b	Waste water treatment plant; flow sheet for treatment process attached.	-
C	Quantity of water recycled / reused / to be recycled in	-
i	Percentage	-
ii	m ³ /day	-

d	Point of final discharge	-											
	Final Point	-											
1	Surface	-											
i	Agricultural land	-											
ii	Waste land	-											
iii	Forest land	-											
iv	Green belt	-											
2	River / nallah	-											
3	Lake	-											
4	Sea	-											
5	Others (specify)	-											
	Total	-											
e	Users of discharge water	Yes	No										
i	Human												
ii	Livestock												
iii	Irrigation												
iv	Industry												
v	Others (specify)												
F	Details of the river / nalla, if final effluent is / will be discharged (cumecs)												
i	Average flow rate												
ii	Lean season flow rate												
iii	Aquatic life												
iv	Analysis of river water 100 meters upstream and 100 meters downstream of discharge point submitted.												
G	Township												
a	Waste water generation from township (m ³ /day)												
b	Are you planning to provide sewage treatment plant?												
C	Usage of treated water												
32.	Attach water balance statement in the form of a flow diagram indicating source (s), consumption (Section-wise) and output. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Purpose</th><th>Demand (KLD)</th></tr> </thead> <tbody> <tr> <td>Drinking/Domestic</td><td>1.30</td></tr> <tr> <td>Dust Suppression</td><td>6.72</td></tr> <tr> <td>Green Belt</td><td>1.24</td></tr> <tr> <td>Total</td><td>9.62</td></tr> </tbody> </table>			Purpose	Demand (KLD)	Drinking/Domestic	1.30	Dust Suppression	6.72	Green Belt	1.24	Total	9.62
Purpose	Demand (KLD)												
Drinking/Domestic	1.30												
Dust Suppression	6.72												
Green Belt	1.24												
Total	9.62												
33	Ambient noise level leq dB(A)	Details given in Chapter III											
34	Solid Waste-	Not Applicable											
a	Top soil and Solid waste quantity and quality												
	Name (Lump/fines/slurry /Sludge/others)	Composition	Quantity (cum)	Method of disposal									
	Mining activity*												
	a. Top Soil		--										
	b. Over burden		--	--									
	c. Others (20%		--										

intercalated waste)				
Effluent Treatment Plant (sludge)		-	-	
Total		--	--	
[* Annex layout plan indicating the dump sites.]				
b (i)	Does waste (s) contain any hazardous/toxic substance/radioactive materials or heavy metals?		No	
(ii)	If yes, whether details and precautionary measures provided?		NA	
c	Recovery and recycling possibilities.		NA	
d	Possible user(s) of the solid waste.		Used in the mine itself	
e (i)	Is the solid waste suitable for backfilling?		Yes	
(ii)	If yes, when do you propose to start backfilling?		Simultaneous backfilling	
Solid waste (s)	Already accumulated (A)	To be generated (B)	% of A & B to be backfilled	
			A	B
Over burden		--		
Others (20% intercalated waste)		--		-
	Land reclamation Plan		Not Applicable	
f	In case waste is to be dumped on the ground, indicate			
i	Associated environmental problems			
ii	Number & type of waste dumps			
	No. of external dumps			
	Max. projected height of dumps (in m)			
	No. of terraces and height of each stage			
	Overall slope of the dump (degree)			
	Proposed reclamation measures			
iii	Section of the waste dump in relation to the adjacent ground profile attached			
35	Fuel / Energy requirements* [*To be furnished for mines having ML area more than 25 ha. or captive power generation of 500KVA and above]		Not Applicable	
a	Total power requirement		(in MW)	
S. No.		Mine Site	Township	Others (specify)
1	Present			
2	Proposed / additional			

Total							
b	Source of power			(in MW)			
S. No.		SEB/Grid*		Captive power plant		DG Sets	
1	Present						
2	Proposed / additional						
Total							
[* Annex a copy of the sanction letter from the concerned authority]							
c	Details of fuels						
S.N o.	Fuel	Daily Consumption (TPD)		Calorific value (Kcals/kg)	% Ash	% Sulphur	
		Existing	Proposed				
1	HSD						
2	LSHS						
3	Other (specify)						
36	Storage of inflammable / explosive material				Not Applicable		
S. No.	Name	Number of Storages		Consumption (in TPD)	Maximum Quantity at any point of time		
1	Fuels						
2	Explosives						
37	Human Settlement						
		Core Zone			Buffer Zone		
Population*		-			Details given in Chapter III		
No. of villages		-					
Number of households village-wise		-					
[* As per 2001 census record or actual survey]							
38.	Rehabilitation & Resettlement (R&R) Plan [*Provide a comprehensive rehabilitation plan, if more than 1000 people are likely to be displaced, other-wise a summary plan]				Not Applicable		
a	Villages falling within the study area						
		Villages					
		Number		Name			
Core zone							
500 m from the blasting site (s)							
Buffer zone							
Township site							
b	Details of village(s) in the core zone						
S. No.	Village name		Population*		Average Annual Income		
			Tribal	Others			
1							
[*As per 2001 census / actual survey]							
c	Population to be displaced and / or Land						

	Oustees					
Name of village(s) falling within	Number of oustees					
	Land (only)	Homestead (only)	Land and Homestead (both)			
<u>Mining Lease</u>						
1.						
<u>Township Site</u>						
1.						
d	Whether R&R package has been finalized? If yes, salient features of R&R plan for oustees.		Not Applicable			
i	Site details where the people are proposed to be resettled & facilities existing / to be created.					
ii	Funds earmarked for compensation package					
iii	Agency /Authority responsible for their resettlement.					
iv	Time of commencement of resettlement of Project Affected People (PAP).					
v	Period by which resettlement of PAP will be over.					
39	Lease -wise plantation details					
a	Lease area (in ha.)		Existing	Proposed		
	i. Area broken up		--	-		
	ii. To be broken up		-	-		
	iii. Area not to be broken-up		-	-		
b	Township area (in ha.)		-			
c	Area afforested and proposed (in ha.)		-			
		Peripheral	Dumps	Roads	Township	Others
i	Existing					
ii	Proposed					
d	No. and type of trees planted and proposed					
i	Existing		--			
	When plantation was started?		Month / Year			
	No. of plant species planted		Number saplings (per ha.)			
	--		-			
	Survival rate %		Avg. height			
ii	Proposed					
	No. of plant species to be planted		Number of saplings (per ha.)			
	-		620			
40	Environmental health and safety					
a	What major health and safety hazards are anticipated?		Refer Chapter VII			
	What provisions have been made/proposed to be made to conform to health and safety requirements?		As per Mines Act/ Rules			
	In case of an existing mine					

i	Comprehensive report on health status of the workers as under the Mines Act annexed	As per Mines Act/ Rules
ii	Mineralogical composition of RPM (dust)	
	• Free silica	Not applicable
	• Chromium* (Total as well as Hexavalent)	Not applicable
	• Lead** [* Only for Chromite mines] [**Only for Base Metal mines]	Not applicable
	Information on radiation protection measures, if applicable	Not applicable

41. Environmental Management Plan

Salient features of environmental protection measures

S. No.	Environmental issues*	Already practiced, if applicable	Proposed
1	Air pollution	-	Regular water sprinkling, Wet drilling, plantation
2	Water pollution	-	Retaining wall around dump, Garland drain, settling tank
3.	Water conservation	-	General awareness,
4.	Noise pollution	-	Preventive maintenance of machines, use of earplugs.
5.	Solid waste / Tailings	-	Not applicable
6.	Land degradation	-	Reclamation and rehabilitation by afforestation and conversion into water reservoir.
7.	Erosion & Sediment	-	Not applicable
8.	Top soil	-	Used for topping of backfilled area.
9.	Ground vibration	-	Controlled Blasting
10.	Wildlife conservation	-	Not applicable
11.	Forest protection	-	Not applicable
12.	Others (specify)	-	Social training and general awareness

[* As applicable]

42	Compliance with environmental safeguards (For existing units)	Yes	No
	Status of the compliance of conditions of Environmental clearance issued by MoEF, if any, enclosed.	-	√
	Status of the compliance of 'Consent to Operate' issued by SPCB, if any, enclosed.	-	√
	Latest 'environmental statement' enclosed.	-	√

43	Scoping of EIA	Attached as Annexure-X
	Whether environmental impact assessment of the project has been carried out by following scoping process?	Yes
	If yes, a copy of scoping of EIA annexed.	Details are given in Chapter I
44	Mine closure	
a	Have you planned mine closure?	No
b	Submitted a conceptual mine closure plan.	No
c	If yes, indicate estimated amount for implementing the same (in Rs. lakhs)	No
45	Capital cost of the project (in Rs. Lakh) (Based on latest estimate)	Rs 6.7 Lakh

46. Cost of environmental protection measures (in Rs. Lakh)

Sl. No	Description	Capital Cost (lakh)	Recurring Cost (lakh)
1	Pollution Control & Dust Suppression	Nil	2.0
2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil Pollution iv) Noise Pollution	--	2.0
3	Plantation and salary for one gardener (parttime basis).	6.2	0.5
4	Haul road Maintenance Cost	0.5	3.0
TOTAL		6.7	7.5

47	Amount earmarked for socio-economic welfare, measures for the nearby villages other than R&R plans.	Rs. 22,00,800/-
48	Public Hearing	
a	Date of Advertisement in Newspapers	27/07/2023
b	Name Of Newspaper	• Dainik Samachar • Dainik Bhaskar • Hindustan Times
c	Date of Public Hearing Venue	29/08/2023 at 11:00 A.M. Tehsil Office, Mohanpur, District- Gaya
d	Public Hearing Panel chaired by members present	Shri Anjani Kumar Additional District Magistrate, Gaya District- Gaya
e	No. of people attended the public hearing meeting	Around 72
f	Summary/details of public hearing in tabular form	Given in Chapter 7 of EIA report

49	Whether the following approvals* (wherever applicable) have been obtained?	YES	NO
a	Site clearance from MoEF	-	√
b	Consent for Establishment' from the State Pollution Control Board	-	√
c	NOC from Atomic Mineral Division	-	√
d	Mining plan approval from IBM / Ministry of Coal	√	-
e	In case of existing mines, mining scheme approval from IBM	-	√
f	Forestry clearance under FCA, 1980	-	√
g	NOC from Chief Controller of Explosives	-	√
h	Commitment regarding availability / pumping of water from the concerned Authorities	-	√
i	In case of ML area falling in notified areas of the Central Ground Water Authority, NOC from them.	-	√
[* Annex copies of approvals and number them]			
50	Was / is there any court case relating to the project or related activities? If so, provide	No	

Verification: the data and information given in the Performa are true to the best of my knowledge and belief.

Date:

Place:

(Authorized Signatory)

M/s Ramiya Construction Private Limited
Add. – 51 A.P. Colony, Gaya