



सत्यमेव जयते

File No.: IA-J-11015/81/2017-IA-II(M)
Government of India
Ministry of Environment, Forest and
Climate Change
IA Division



Dated 03/12/2025



To,

Chirag Arvindkumar Shah
M/s. Gujarat Mineral Development Corporation Limited
GMDC Ltd., 132 Feet Ring Road, Near Gujarat University Ground, Vastrapur - 380052, Ahmadabad,
Gujarat, 380052
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Subject: Baitarni West Opencast Coal Mine (area: 1196 Ha having production capacity 15 MTPA) by M/s Gujarat Mineral Development Corporation Limited located at villages: Chhendipada Jangal, Chhendipada RF, Handigora, Machhakuta, Machhakuta Jangal, Porapara Jangal, Tentuloikorasahi; Tehsil: Chhendipada; District: Angul; State: Odisha – Environmental Clearance – regarding

Sir/Madam,

This is with reference to your online application vide proposal no. IA/OR/CMIN/545513/2025 dated 25.09.2025 along with written submission dated 11.11.2025 seeking for Environmental Clearance under the provisions of EIA notification 2006 and as amended therein for the project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A0101OR5154999N
(ii) File No.	IA-J-11015/81/2017-IA-II(M)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Sector	Coal Mining
(vii) Name of Project	Baitarni West Opencast Coal Mine with production capacity of 15 MTPA in an area of 1196 ha at Tehsil- Chhendipada, District-Angul (Odisha) by M/s Gujarat Mineral Development Corporation Ltd (GMDC)
(viii) Location of Project (District, State)	Angul, Odisha
(ix) Issuing Authority	MoEF&CC

3. M/s. Gujarat Mineral Development Corporation Ltd (GMDC) has made an online application vide proposal no IA/OR/CMIN/545513/2025 dated 25.09.2025 along with copy of EIA/EMP report, Common Application Form and Form 1 seeking for Environmental Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above.

4. The proposed project activity is listed at schedule no. 1(a) – Mining of Minerals under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level and do not attract the general condition of the EIA Notification, 2006.

5. The instant proposal was earlier appraised in the 23rd EAC meeting held on 03.04.2025, wherein the same was returned in its present form due to various short-comings in the form and the documents/ information submitted by the proponent. The Proposal was further considered in 34th EAC meeting held during 29-30th October, 2025. The written information was submitted on 11.11.2025. The MoM for the same may be seen using the web link: parivesh.nic.in.

Details submitted by the project proponent

6. The project of M/s Gujarat Mineral Development Corporation Ltd (GMDC) located in Chhendipada Jangal, Chhendipada RF, Handigora, Machhakuta, Machhakuta Jangal, Porapara, Porapara Jangal, Tentuloi-Korasahi Village, Chhendipada Tehsil, Angul District, Odisha State is for setting up/mining of a Baitarni West Coal Mine for production of 15 MTPA.

7. **Environmental Site Settings:** The project area is covered under Survey of India Topo sheet No. F45M16 and is bounded by the geographical coordinates ranging from latitude 21°01'44.74" N and 21°05'26.87" N and longitudes 84°50'12.08" E and 84°51'40.70" E. The DGPS coordinates of the ML area are given in Figure 2.3 of EIA Report.

Project does not fall in the Critically Polluted Area/ Severely Polluted Area, as per CEPI Assessment 2018 of CPCB.

Forest Area: The project involves total 64.3723 Ha of forestland. Stage-I Forest Clearance for diversion for non-forestry activity has been applied online vide single window no-SW/171065/2024. PP submitted that there is no broken forestland and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/elephant corridor etc. However, there is a tiger corridor at a distance of 4 km from the boundary of the ML area.

There are 29 numbers Schedule I Species namely Indian Elephant, Bengal Monitor, Indian Chameleon, Common Rat Snake, Common Indian Krait, Indian Cobra and Russell's viper, etc listed in the study area. A Site-Specific Wildlife Conservation Plan has been prepared and approved by PCCF & Chief Wildlife Warden, Odisha, vide letter no. 10454/CWLW-FDWC-FD-0004-2025, dated 25.09.2025. A budgetary provision of Rs. 37.26 Crores (Including 5% of the total financial outlay of the SSWCP to be deposited in Wildlife Society of Odisha) is earmarked for 10 years.

Other sensitive receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Village	Direction	Distance (km)
i. Habitation	Handigora Village		Within ML Area
	Khuntanali Village		Within ML Area
	Machhakuta Village		Within ML Area
	Salakhaman Village		Within ML Area
	Porapara Village		Within ML Area

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Village	Direction	Distance (km)
	Jamunali Village	SW	0.2
	Ghuntulipasi Village	W	0.3
	Sapoisahi Village	N	0.4
	Chhendipada Village	E	0.5
	Ichhapur Village	S	0.6
	Palasbania Village	SE	0.8
	Tentuloi Village	E	0.85
	Deuria Jhuran Village	W	1
	Mamuraia Village	NE	1.4
	Gobindpur Village	S	1.7
	Kukurapeta Village	ESE	2
	Jayapange Village	W	2
	Basantpur Village	W	2
	Sapoinali Village	W	2.2
	Dubanali Village	SSE	2.85
	Bagdia Village	NW	2.9
	Nanguli Village	ENE	3.6
	Bahalsahi Village	NE	3.8
	Khamar Village	WNW	4.2
	Balipata Village	S	4.5
Kasidiha Village	E	4.7	
Baramancha Village	N	4.8	
Hatianali Village	S	4.8	
ii. School	Schools/College	Direction	Distance
	Government primary school, Khuntanali	Within ML Area	
	Bapuji College	Within ML Area	
	School at Handigora	Within ML Area	
	Podapada High School	N	Adjacent site
	Lord Jagannath Academy	E	0.15
	Ghuntulipasi N.U.P.S	W	0.3
	Sapoisahi Primary School	N	0.4
	Jamunali school - Primary school	SW	0.5
	Narendra Sahu - High school	S	0.66
	Tentuloi kodasahi High School	E	1
	Mamuraia UP School	ENE	1.2
	Kukurpeta High School	E	1.4
	Haribereni up school	E	1.65
	Sapoinali High School	W	2.1
	Purunagarh UP School	NNW	2.4
	Mundamala sahi primary school	ENE	2.4
	Radhamadhab High School	E	2.4
	Basantpur UP School	E	2.45
	Bahalsahi High School	ENE	2.8
	Anganwadi Centre, (Khalidirap)	N	3
Bagdia High School	WNW	3.2	
Dubanali Primary School	S	3.3	
Charakani U.P School	E	3.7	

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Schools/College	Direction	Distance
	Rathasahi Project U.P. School	S	4.33
iii. River/ Waterbody	River/Nallah	Distance	Direction
	Kumbhira Nala	Within ML Area	
	Supai Nala	Within ML Area	
	Gauduni Nala	1.2 km	East
	Kusal Nala	1.0 km	West
	Bainsajaria Nala	1.5 km	NW
	Shagarhia Nala	3.0 km	NW
	Singhda Jhor	5.0 km	South
iv. Forest	Reserved/Protected Forests	Distance	Direction
	Chhendipada RF	Within ML Area	
	Debinagar PF	2.5 km	SW
	Kosala RF	4.6 km	SE
	Kamkurupal RF	5.0 km	East
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	No		

Details of diversions proposed for the instant project:

i. The Supai Nallah (seasonal nallah) is proposed to be diverted during the 10th year of operations.

Mitigation measures proposed for the sensitive receptors:

i. The people residing in the villages within the ML area shall be relocated in phases as per the R&R plan.

ii. For Kumbhira Nala: Embankment of 3 km length & height of 3m above HFL will be provided along the Kumbhira Nala for its protection. Toe-walls, retaining walls with weepholes at strategic stretches will be constructed to arrest the sediments and prevent silting of the water courses by the run-off during rains. Green belt will be developed along the embankment.

iii. For Bapujee College: 3-tier greenbelt (approx. 1000 nos. of native species) with a width of 10 m will be established well in advance within 10 years of starting mining activities till relocation.

iv. For Government Primary School, Khuntanali & School at Handigoda: Schools are being planned to be relocated in the area of proposed R & R colony at Nuapada, Chendipada tehsil, Angul district, as most of the students are from the Project Displaced Families (PDF) of the Baitarani West mine. R&R colony will be developed by December F/Y 2028-29.

Mine Lease: The mine was earlier allotted to M/s Odisha Mining Corporation Ltd. The Ministry of Environment, Forest and Climate Change has granted Terms of Reference to Baitarni West Opencast Coal Mine of OMC with production capacity of 15 MTPA in an area of 1196 ha vide its letter with File No. IA-J- 11015/81/2017- IA-II (M) dated 22.11.2021. Vesting order was issued in favor of Gujarat Mineral Development Corporation, being successful bidder, vide order NA-104/4/2023-NA, dated 08/06/2023, after auction of the mine, for the purpose of sale of coal including sale to affiliates and related parties, utilization of coal for any purpose including but not limited to captive consumption, coal gasification, coal liquefaction and export of coal. M/s Gujarat Mineral Development Corporation Ltd accordingly applied for transfer of Terms of Reference and has submitted the affidavit dated 22nd September, 2023 stating to comply with all the Environmental Safeguards as per the terms and conditions as stipulated in Terms of Reference (ToR) granted on 22.11.2021 to OMC Ltd. MoEF&CC transferred the TOR from M/s Odisha Mining Corporation Ltd to M/s Gujarat Mineral Development Corporation Ltd., on the same terms and conditions as mentioned in the TOR issued vide file no :

8. Details of ToR:

Date of Application	Details	Date of Accord	ToR Validity
21.10.2021	Proposal No. IA/OR/CMIN/234993/2021 (granted to M/s Odisha Mining Corporation Ltd)	22.11.2021	21.11.2025
23.09.2023	Vide ToR Transfer Proposal number IA/OR/CMIN/445559/2023 (transferred to M/s GMDC Ltd)	06.11.2023	21.11.2025

9. Method of Mining and Mine Plan: Mining Plan for 15 MTPA (Normative) capacity for Open Cast Mechanized operation was approved by MOC vide letter no SWCS/Baitarni West Coal Mine/OR/AN/2021/CCO-MCBA dated 10.11.2021 and transferred in the name of GMDC through vesting order NA-104/4/2023-NA, dated 08/06/2023.

i. Method of mining to be adopted shall be opencast method of coal mining by surface miner, pay loader and tipper and OB removal by shovel dumper combination.

ii. The gross geological reserves are 662.94 MT and net geological reserves are 602.1106 MT out of which mineable reserves are 485.06 MT and extractable reserves are 468.27 MT. The percentage of extraction is 77.771%.

iii. There are total 18 nos of seams, with thickness ranging from 0.08 m to 33.94 m.

iv. Grade of coal is G-12 and stripping ratio is 1.5278 m³/ tonne.

v. Life of mine is 37 years (including construction period).

vi. Topsoil management details:

a. Quantity of Topsoil to be generated: 1.866 million m³

b. Handling/ utilization of topsoil: Generated topsoil will be utilized for plantation activity on the backfilled area, external dump and embankment.

c. Nos of Topsoil dumps, its area and height: 1 topsoil dump in 2.34 ha.

vii. Nos. of OB Dumps, its area, its height and OB Management: 1 External OB Dump of 215.84 ha with 90 m height, accommodating 140.25 Mm³ of OB. 1 internal OB dump in an area of 623.71 Ha with 573.30 Mm³ of OB with a height of up to ground level.

viii. Land use pattern

A. Pre-mining land use pattern

S. No.	Type of Land	Within ML Area (ha)
1.	Agricultural	784.8499
2.	Forest	64.3723
3.	Barren	44.3739
4.	Grazing	118.8397
5.	Water bodies	35.1422
6.	Roads	31.4086
7.	Homestead	32.7729
8.	Community/ Other use	84.2405
Total		1196.00

B. Post Mining

Type	Land Use in Hectares (Post Closure)					
	Plantation (Ha)	Water Body (Ha)	Public/ Company Use (Ha)	Forest Land (Ha) (to be returned)	Undisturbed (Ha)	Total (Ha)
Backfilled Area	537.12	22.218	0	64.3723	0	623.71
Embankment	10	0	6.85	0	0	16.85
Green Belt	86.5	0	0	0	0	86.5
Undisturbed	0	0	0	0	31.707	31.707
Water Reservoir Near Pit	0	7.89	0	0	0	7.89
External Dump	215.84	0	0	0	0	215.84
Road And Infrastructure Area	161.783	0	25	0	0	186.783
Other water bodies including Garland Drains, etc	0	8.38	0	0	0	8.38
Safety Zone	16	0	0	0	0	16
Topsoil Dump	2.34	0	0	0	0	2.34
Total	1029.583	38.488	31.85	64.3723	31.707	1196

ix. **Details of Transportation:**

- In-pit to surface:** Through dumpers and conveyor
- Surface to siding:** Conveyor up to 3 km
- Siding to loading:** Coal Transportation will be through Belt conveyor up to dispatch point/RLS Rail transport.
- Quantity proposed to be transported by rail/ road/ conveyor/ ropeway:** By rail: 12 MTPA & By road: 3 MTPA upto 100 km.

x. **Details of reclamation:** Afforestation shall be progressively done in an area of 1029.583 Ha. This will include reclaimed external OB dump of 215.84 Ha, internal dump of 537.12 Ha, greenbelt of 86.5 Ha, embankment of 10 Ha, road and infrastructure of 161.783 Ha, safety zone of 16 Ha and top soil dump of 2.34 Ha. Density of plantation shall be 2500 trees per Ha. Apart from this, a void of 22.218 Ha will be converted into 30 m deep water body.

10. **Baseline Data:**

Period	October to December 2023 (Post Monsoon)
AAQ parameters at 10 Locations (min and max)	<p>Core Zone: $PM_{2.5} = 29.8$ to 42.2 g/m^3 $PM_{10} = 65.3$ to 83.9 g/m^3 $SO_2 = 5.1$ to 7.3 g/m^3 $NO_2 = 11.6$ to 20.26 g/m^3</p> <p>Buffer Zone: $PM_{2.5} = 20.1$ to 45.8 g/m^3 $PM_{10} = 48.9$ to 83.5 g/m^3 $SO_2 = 5.0$ to 10.3 g/m^3 $NO_2 = 9.5$ to 23.3 g/m^3</p>
Incremental GLC Level	<p>Core Zone: $PM_{10} = 3.07 \text{ } \mu\text{g/m}^3$ (Level at 0.1 km in NNW Direction) $SO_2 = 2.49 \text{ } \mu\text{g/m}^3$ (Level at 0.099 km in E Direction) $NO_x = 4.14 \text{ } \mu\text{g/m}^3$ (Level at 0.099 km in E Direction)</p> <p>Buffer Zone: $PM_{10} = 3.136 \text{ } \mu\text{g/m}^3$ (Level at 0.27 km in WSW Direction) $SO_2 = 0.248 \text{ } \mu\text{g/m}^3$ (Level at 4.5 km in NE Direction) $NO_x = 0.41 \text{ } \mu\text{g/m}^3$ (Level at 0.27 km in WSW Direction)</p>
Ground water Quality at 8 Locations	<p>pH: 7.04 to 7.48 Total Hardness: 493 to 1110 mg/l Chlorides: 30 to 115 mg/l</p>

Period	October to December 2023 (Post Monsoon)				
	Fluoride: 0.5 to 0.7 mg/l Heavy metals (Lead): <0.01 mg/l				
Surface water quality at 8 Locations	pH: 7.09 to 7.76 DO: 3.2 to 6.3 mg/l BOD: 2.5 to 8.2 mg/l COD: 9.6 to 28 mg/l				
Noise levels Leq (Day and Night)	Project site (Industrial) – daytime 43.1 dBA & night time 38.5 dBA Residential – Daytime 43.3 to 52.9 dBA & Night time 38.7 to 43.6 dBA				
Traffic assessment study findings	Traffic study has been conducted at ODR Tentuloi Chhendipada Road which is approximately 10.8 km from the mine site. Transportation of mineral (20%) will be done by road. Existing PCU is 57 PCU/hr on ODR Tentuloi Chhendipada Road and existing level of service (LOS) is: A PCU load after proposed project will be 57 (Existing) + 93 (Additional) PCU/hr and level of service (LOS) will be: A				
	Road	V (Volume In PCU/hr.)	C (Capacity In PCU/hr.)	Proposed V/C Ratio	LOS
	ODR Tentuloi Chhendipada Road	57+93= 150	1500	0.1	A
	<p>Note: Capacity as per IRC 1990 Guideline for capacity for roads. Conclusion: The level of service will remain same i.e. Excellent after including additional traffic due to proposed project.</p>				
Flora and fauna	Schedule I Species namely Indian Elephant, Bengal Monitor, Indian Chameleon, Common Rat Snake, Common Indian Krait, Indian Cobra, Russell’s Viper, etc. listed in the study area. Site-Specific Conservation Plan has been prepared & approved by PCCF & Chief Wildlife Warden, Odisha, vide letter no. 10454/CWLW-FDWC-FD-0004-2025, dated 25.09.2025. A budgetary provision of 37.26 Cr (Including 5% of the total financial outlay of the SSWCP to be deposited in Wildlife Society of Odisha) is earmarked for 10 years.				
Water Requirement	Source of Water: Initial requirement of domestic water and industrial water will meet out from ground water. Afterwards the demand of water will be met from the mine inflow water. Ground Water Intersection: Yes Water Requirement: 3620 KLD NOC (For surface water): Not Applicable NOC (Ground Water): CGWA NOC obtained vide NOC no. NOC/MIN/OD/2025/534/N dated 29.07.2025.				

11. Details of water requirement: PP submitted that the requirement of water for the said project is 3620 KLD (1020 KLD for domestic use and 2600 KLD for industrial use). Initially the source of water shall be ground water and later the demand shall be fulfilled by mine inflow water. Application for permission of ground water has been submitted vide application no. MIN/OD/2025/534 dated 09.01.2025.

PP also submitted that a small seasonal Supai nallah flowing in the NE direction of the ML area is proposed to be diverted for mining operation as per the approved mine plan. Length of diversion will be 2.3 km.

12. Details of power requirement and diversion of transmission line/ Hi-tension line: PP submitted that for the initial mine operation, 11 KV power supply shall be obtained through a link from the Handigoda rural line, within the mine lease boundary of the coal block. The proposed 33 KV transmission power line is still at the conceptual stage, as the alignment of the 132 KV line originating from the Boinda Substation under OPTCL is yet to be finalized.

13. Details of Solid and Hazardous Waste:

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Domestic Solid Waste	Domestic	108.82	Biodegradable waste will be	Non-biodegradable waste will be disposed

				composted	through approved agency
2.	Plastic Waste	Administrative office & Service building (packaging, water bottles, Food wrappers, PPE, Industrial packaging etc.)	10		Sale to Authorized recycler
3.	E-waste	Administrative office & service building (computers, phones, printers, control systems, sensors, PLCs, etc)	1.0		Sale to Authorized Recycler
4.	Batteries	Equipment, vehicles, personal use, etc	15		Authorized Vendors
5.	Hazardous waste (Used Oil / Spent Oil)	Mine Machinery	150		Through CPCB / SPCB registered recyclers

14. Public Consultation/ Hearing: PP submitted the following details of Public Consultation:

Details of advertisement given	23.08.2024 in 2 newspapers, namely – Pragativadi and The New Indian Express.
Date of public consultation	24.09.2024
Venue	Govt. Land in front of Jagannath Temple, Chhendipada Tahsil of Angul district
Presiding Officer	Additional District Magistrate
Number of Person Attended Hearing	About 700 – 1000 out of them 203 participants have put their signatures in the attendance sheet
Number of representations received in writing from the district and outside of district	8 no.
Major issues raised	<ul style="list-style-type: none"> •The Project proponent shall take steps to protect all the water bodies & Supai and Kumbhira Nallah flowing within the mine lease area in order to prevent from getting water pollution •The Project proponent shall adopt state-of-art technology in order to protect the environment such as air, water and soil in the proposed mining area. •The Project proponent shall provide employment to the local people as per their educational qualification in the proposed mining project •The Project proponent shall make provision for supply of safe drinking water facility in the local villages and construction of village roads •The Project proponent shall undertake massive plantation in and around the ML area for the betterment of local environment •The Project proponent shall provide actual compensation against the land for the land losers as per R & R policy. •The Project proponent shall take adequate steps for forest conservation and adopt preventive measures for the protection of wildlife.

Action plan as per MoEF&CC O.M. dated 30/09/2020

S. No.	Issue Raised during PH	Physical activity and action plan	Budget	Year wise Breakup		
				1st Year	2nd Year	3rd Year
1.	Development of Local Area	Formulate village development program under consultation with local panchayat and district administration for need-based community development activities which	The various activities for development of the local area shall be undertaken by GMDC. GMDC had already undertaken various activities (summarized under) for improvement of Rural Infrastructure, improvement of Community health,	100 Lakhs	150 Lakhs	150 Lakhs

S. No.	Issue Raised during PH	Physical activity and action plan	Budget	Year wise Breakup		
				1 st Year	2 nd Year	3 rd Year
		would be in addition to the development plans being undertaken by state and central government.	conservation of Arts & Culture etc in the region. Development of Local Area: <ul style="list-style-type: none"> •Help in the improvement of village roads •Construction/Renovation of Sabhagruha •Construction/Renovation of Community Hall •Construction/Renovation of Rahaswadi •Construction of Mandap •Community Infrastructure • Mobile Medical Unit (MMU) services • Establishment of Physiotherapy Centre 			
2.	Protection of water bodies	Embankment will be constructed all along the Kumbhira nallah within the mine lease (ML) area. Plantation will be done along the embankment of Kumbhira nallah.	1000 Lakhs <ul style="list-style-type: none"> • Construction of Embankment: 1000 Lakhs • Plantation along the embankment of Kumbhira nallah: Budget covered under EMP 	335 Lakhs	335 Lakhs	330 Lakhs
3.	Pollution Control	Truck Mounted Tanker with Mist Spray Sprinkling Arrangement for Haul Roads/Mine/Safety zone etc. Mobile Water Mist Spray Sprinkler for transport route. For control of pollution, massive plantation drive and water sprinklers in affected villages will be done.	<ul style="list-style-type: none"> •Truck Mounted Tanker with Mist Spray Sprinkling Arrangement for Haul Roads/Mine/Safety zone etc.: Budget covered under EMP •Mobile Water Mist Spray Sprinkler for transport route: Budget covered under EMP • Plantation of trees/Greenbelt development: Budget covered under EMP 	30 Lakhs 30 Lakhs Upto 3rd Year - 40.45 Lakhs	60 Lakhs 60 Lakhs	60 Lakhs 60 Lakhs
4.	Skill Development/Employment to the local people	Willing and employable youths will be identified in consultation with gram panchayat of nearby villages. Technical education & training will be provided to Local		50 Lakhs	50 Lakhs	75 Lakhs

S. No.	Issue Raised during PH	Physical activity and action plan	Budget	Year wise Breakup		
				1 st Year	2 nd Year	3 rd Year
		Youths Project Samarthya for Skill Development				
5.	Compensation to land losers	R&R Package will be provided to the displaced families after the approval from RPDAC (Rehabilitation & Periphery Development Advisory Committee)	Budget covered under R&R Plan	The concerned activities will be carried out under the proposed R&R budget of Rs. 727.94 crores (excluding land compensation) in phases.		
6.	Protection of wildlife	Wildlife protection & conservation shall be done. A comprehensive Regional Wildlife conservation plan (WLCP) is under preparation at DFO level. PP will deposit the proportionate amount as per the direction of Forest Department. Further Site-Specific Conservation Plan has been prepared & approved by PCCF & Chief Wildlife Warden, Odisha. A budgetary provision of 37.26 Cr (Including 5% of the total financial outlay of the SSWCP to be deposited in Wildlife Society of Odisha) is earmarked for 10 years.		Proposed budget for wildlife conservation plan is Rs. 3726.40 Lakhs for 10 years.		
7.	Concern for drinking water	Drinking water arrangement shall be made in the villages as per the requirement.	Budgetary Provision	100 Lakhs	100 Lakhs	150 Lakhs

Action Plan for Written Representations

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
1.	Balipata villagers, Manglu sahoo,	I am writing this letter to inform that as per letter no.	• Pollution Control	Air quality, water quality, and forest environment will be regularly	531.5 Lakhs	888.5 Lakhs	808 Lakhs

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
	Sarat kumar Garnaik, Barun kumar sahu, Chandrakanta Garnayak, Pradeep swain, Lochan Pradhan, Basanta Barik, Golekha Pradhan	13285 dtd. 22.08.2024 by SPCB Odisha, due to large population in our village periphery area which will be damaged for the mining therefore we are opposing this public hearing. The displaced people of affected villages will be rehabilitated in clean and good environment locations whereas we the people of periphery villagers will be deprived from these; therefore, GMDC should declare first that what steps have been taken to provide clean air, water, forest & good environment for the affected areas. We have no objection to Baitarani Open cast mining if prior steps are taken for its permanent solutions to these issues. If our periphery affected villages have to face Toxic climate, severe water shortages, difficulties in farming in future due to mining, in such case we will not hesitate to make strong oppose in future. Therefore, we are requesting you to kindly consider our grievances for better solutions before commencement of mining.		monitored, and reports will be submitted in compliance with the norms of the CPCB and MoEF&CC. All efforts will be made to ensure that these parameters remain within the stipulated standards. Hydrological studies have been conducted, and the stage of groundwater extraction stands at 54.93% (Safe). Pumping operations will only be carried out after obtaining the necessary permission from the Central Ground Water Authority (CGWA). Conservation measures like rainwater harvesting, use of rainwater/seepage water shall be used for internal consumption etc.			

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
2.	Mr. Bijayananda Chaulia, Hakimapada, Angul	<p>Coal Mining is a high-risk industry specially, in the case of opencast mining</p> <p>Where, a mineral itself is part of the surface soil or rock or fairly close to the surface.</p> <p>Even though, mining is regarded as a crucial economic activity worldwide, it has a significant negative impact on environment that inevitably leads to serious degradation on ecological and aesthetic values of the landscape. Coal mining causes extensive degradation to natural ecosystems such as forests and can scar the landscape irreparably.</p> <p>Damage to humans, animals and plants, too occurs due to habitat destruction and environmental contamination.</p> <p>Impacts of mining activities on environment and climate change</p> <p>Land, in various forms, is a finite natural resource. The necessity of land is ever increasing due to rapid population growth. The irony of the situation is nothing but the adverse impact of opencast mining on land is soil contamination or Soil destruction. In the course of removing the</p>	<ul style="list-style-type: none"> • Degradation to natural ecosystems • Adverse impact of opencast mining on land • Protection of Environment 	<p>Massive plantation drives in the project (about 25,74,000 nos. of native species is envisaged over a period of 37 years of Mine Life in backfilled area, safety zone and infrastructure) and surrounding areas for better local environment will be done.</p> <p>A comprehensive Regional Wildlife conservation plan (WLCP) is under preparation at DFO level. PP will deposit the proportionate amount as per the direction of Forest Department. Further Site-Specific Conservation Plan has been prepared & approved by PCCF & Chief Wildlife Warden, Odisha. A budgetary provision of 37.26 Cr (Including 5% of the total financial outlay of the SSWCP to be deposited in Wildlife Society of Odisha) is earmarked for 10 years.</p> <p>Backfilled areas will be reclaimed biologically and technically.</p> <p>At the initial stage scrapped topsoil will be stored separately and reused as early as possible to layover the backfilled area for biological reclamation.</p> <p>Proper afforestation/plantation is to be carried out for greenbelt development. An area of 1029.583 ha (25,74,000 nos. of native species) will be designated for plantation, as detailed in the EIA/EMP.</p> <p>We will take adequate steps for protection of Environment.</p> <p>We have proposed Capital Expenditure of INR 13919.31 Lakhs and Recurring Expenditure of INR 315.7 Lakhs for implementation of the</p>	Upto 3rd Year – 40.45 Lakhs Upto 3rd Year – 40.45 Lakhs 2367 Lakhs	3511 Lakhs	4194.9 Lakhs

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
		<p>desired mineral material, original soil become lost or buried by wastes. Opencast mining operations involve the removal of huge quantities of overburden, dumping, and backfilling of the excavated area. These overburden deposits of waste material containing low-grade ores are represented as mine spoil dumps. The gradual increase in such landscapes may endanger the agro-forest productivity as well as the ecological balance of the area in particular. Further, the generated waste rocks and tailings in huge quantities will become sources of pollution. Moreover, it has been recently declared by the United States Environmental Protection Agency (US EPA) that the imperfect management of wastes produced in the course of mining and reclamation works is detrimental to environmental and human health. The effect of wastes due to mining and processing activities on ecosystems can be observed in groundwater, surface water, and soil and the following points</p>		<p>Environment Management Plan such as Continuous Air Monitoring, SW & GW Monitoring, Solar lighting arrangement, Rainwater Harvesting, Soil Preservation, Green Belt Development, Ecological Conservation Measures, etc.</p> <p>All necessary precautionary measures, including the installation of Garland drains, the use of geotextiles, and other relevant measures outlined in the Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP), will be strictly implemented to prevent water contamination. Post EC monitoring will be done regularly as per the prescribed standards in consultation with the State Pollution Control Board.</p> <p>All operations will be carried out in strict adherence to the guidelines set by the Directorate General of Mines Safety (DGMS) and other competent authorities.</p> <p>Limited quantity of coal will be transported by road to meet the local demand. Bulk of the coal will be evacuated via rail. Further the movement of trucks will be minimized in peak traffic hours. Wheel washing system shall be installed at the exit point of mine. Overloading of transport equipment shall be prevented in order to stop Spillage. Trees will be planted all along the coal transportation road within mine lease area.</p> <p>A comprehensive Regional Wildlife conservation plan (WLCP) is under preparation at DFO level. PP will deposit the proportionate amount as per the direction of Forest</p>			

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
		<p>may put human health in danger (Passariello et al. 2002):</p> <p>A. inhalation of aerosols containing high levels of metals.</p> <p>B. Percutaneous absorption following skin contact.</p> <p>C. Use of contaminated water.</p> <p>D. Consumption of food from contaminated areas.</p> <p>E. The plying of heavy vehicles on the roads would cause substantial dust nuisance, generate serious noises and above all the area would be more prone to accidents and mishaps.</p> <p>In this backdrop, the above mining activities by GMDC if permitted, would be detrimental to our lives (the seven villagers), flora and fauna and the environment of our area.</p> <p>In view of the above, we therefore, strongly condemn the open caste mining by GMDC and as such vehemently oppose the public hearing. We further request your good self to kindly save the environment and thereby allow us (the simple gullible villagers) to remain in the midst of our natural habitat and the flora and fauna.</p>		<p>Department. Further Site-Specific Conservation Plan has been prepared & approved by PCCF & Chief Wildlife Warden, Odisha. A budgetary provision of 37.26 Cr (Including 5% of the total financial outlay of the SSWCP to be deposited in Wildlife Society of Odisha) is earmarked for 10 years.</p>			

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
		Such kind act of yours would be highly solicited.					
3.	Ms. Poorva Chaulia, Hakimapada, Angul	<p>The proposed coal mines conducted public hearing at Chhendipada on 24th Sep 2024 without proper procedure. Summary uploaded in OSPCB site is only in Oriya, no English copy is available in site. No. of family to be displaced is not mentioned in Executive Summary No. & make of machine to evacuate coal is not mentioned clearly The genuine land losers were not allowed to participate in the Public hearing Hence Public hearing shall be stood cancelled the GMDC should not be allowed to operate.</p>	<p>Pallisabha was not organised before</p> <p>Summary of the mining project not uploaded in English language Number of family affected, and number of family displaced. No. & make of machine to evacuate coal is not mentioned clearly</p>	<p>The public hearing was conducted in accordance with the EIA Notification 2006 and its subsequent amendments and as per the norms set by the Odisha State Pollution Control Board. Odisha State Pollution Control Board was uploaded the summary. Total Project Affected Families (PAF) is approx. 2664 Nos and Project Displaced Families (PDF) is approx. 1629 Nos mentioned in Chapter 7 of the EIA report. List of machineries will be used for Opencast Mining-like Surface Miner, pay loader & tipper and Shovel-Dumper combination is mentioned in Chapter 2 of EIA. The public hearing was conducted in accordance with the EIA Notification 2006 and its subsequent amendments through the Regional Office of OSPCB Angul.</p>	Nil	Nil	Nil
4.	Mr. Arjun, Chhendipada	<p>The Public hearing organised today at Chhendipada of Baitarni West Coal mine of GMDC was a complete false & unethical The Executive Summary uploaded in the OSPCB website has no proper information about the no. of family likely to displaced There is no details about the no. & types of machinery to be used for the mining & transportation proposed. The Executive</p>	<p>Number of family affected, and number of family displaced.</p> <p>No. & make of machine to evacuate coal is not mentioned clearly Summary of the mining project not uploaded in both the languages</p>	<p>Total Project Affected Families (PAF) is approx. 2664 Nos and Project Displaced Families (PDF) is approx. 1629 Nos.</p> <p>List of machineries will be used for Opencast Mining like Surface Miner, pay loader & tipper and Shovel-Dumper combination is mentioned in Chapter 2 of EIA/EMP. Odisha State Pollution Control Board was uploaded the summary. The Regional Officer, OSPCB Angul has conducted the Public hearing as per the norms/requirements at suitable place, easily approachable to everyone.</p>	Nil	Nil	Nil

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
		<p>Summary should be uploaded in both English & Oriya. The common land losers were not allowed to put their view in front of the committee.</p> <p>Selected people by certain group were allowed to put their view.</p> <p>So the Public Hearing shall be cancelled & shall be organised in the affected villages.</p>					
5.	Mr. Kumar Sahoo, Chhendipada	<p>We the people residing in nearly area of the proposed coal mining sites bring the following few line for your kind attention that the proposal coal mines is not at all environmental friendly and violating all Human Rights Law.</p> <p>That, a lot of dust emission will caused due to flying of trucks on the approach road..</p> <p>That, such activity will lead to the incident of theft, misbehaving with ladies and public nuisance will take place in the area.</p> <p>That, it will lead to lowering of water level.</p> <p>That, coal excerpction and transportation has an adverse impact in biodiversity water turbidity, water table levels, land scape and on climate through carbon dioxide emission from</p>	Road traffic and safety Dust emission	<p>Limited quantity of coal (20%) will be transported by road to meet the local demand. Bulk of the coal will be evacuated via rail. Further the movement of trucks will be through a dedicated coal evacuation road will not pass through any village. Wheel washing system shall be installed at the exit point of mine. The trucks shall be covered by Tarpaulin to avoid any spillage. Overloading of transport vehicles shall be prevented in order to stop Spillage. Trees will be planted all along the coal transportation road within mine lease area. The traffic rules as enforced by the DGMS will be strictly followed. A traffic study was conducted for the ODR Tentuloi-Chhendipada Road and SH-63 (Angul to Deogarh). The analysis revealed that the Level of Service (LOS) for the roads was found to be B, indicating a very good condition with minimal congestion and smooth traffic flow. Furthermore, the study also considered the potential impact of increased traffic from the Baitarni West Coal Block.</p>	Nil	Nil	Nil

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
		<p>transportation. Keeping all the above complained in mind, we request the authority not to allow the operation of coal mining as it will damage a lot to the life and liberty of the people living near the proposed site (Violating all environmental and Human Right Law)</p>		<p>However, it was determined that this contribution would not lead to any significant change in the existing Level of Service, meaning that the road conditions and traffic flow are expected to remain unchanged despite the additional transportation demands. Adequate safety norms shall be adapted by the Mine. Dedicated coal transportation road shall be made Bituminous/Tar to connect the Mine with nearest main road for coal evacuation. Out of total 15 Million TPA, only 3 Million TPA will be dispatched by road. Coal will be transported using covered trucks to prevent dust and minimize environmental impact. Trees will be planted all along the coal transportation road. Hydrological studies have been conducted, and the stage of groundwater extraction stands at 54.93% (Safe). Pumping operations will only be carried out after obtaining the necessary permission from the Central Ground Water Authority (CGWA). Conservation measures like rainwater harvesting, use of rainwater/seepage water shall be used for internal consumption etc. A comprehensive Regional Wildlife conservation plan (WLCP) is under preparation at DFO level. PP will deposit the proportionate amount as per the direction of Forest Department. Further Site-Specific Conservation Plan has been prepared & approved by PCCF & Chief Wildlife Warden, Odisha. A budgetary</p>			

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					1 st	2 nd	3 rd
				provision of 37.26 Cr (Including 5% of the total financial outlay of the SSWLCP to be deposited in Wildlife Society of Odisha) is earmarked for 10 years.			
6.	Mr. Ashok Kumar Sahoo, Chhendipada, Angul	Coal mines have impending dangers and risk for which a disaster management plan shall be prepared with an aim of taking precautionary steps to avert disasters and also take such action after the disaster, which is still not published or applied by the Govt. authority. The following natural and industrial problems will be encountered during the mining operation. Inundation due to excessive rains. Accident by heavy machinery. Slope failures at the mines faces. Accident of school going children and other people. Member of family residing near (Ariel distance within 900 metre) the proposed site will suffer from various diseases due to sound and air pollution.	Disaster Management Plan Inundation due to excessive rains Accident by heavy machinery Slope failures Accident of school going children and other people Pollution control	Adherence to relevant statutory safety provisions as stipulated by DGMS shall be made. A comprehensive disaster management plan (DMP) is prepared for mitigating risks, ensuring worker safety, and minimizing the environmental impact of accidents & same is discussed in Section 10.7 of Chapter 7 of EIA. Adequate pumping arrangements shall be made. Rainwater will be stored in mine pit & settling pond, etc. which will be used for internal consumption. Following mitigative measures are suggested to reduce the impact by machinery: a) Formulation of safe operating procedure and implementing the same b) Creating safe working conditions, providing all safety measures, devices etc. c) Training the operator and others about the equipment, the safe operating procedures, vocational, safety training etc. d) Proper preventive maintenance check etc. Guarding of moving/rotating parts, preventing entry near moving parts, maintaining all guards in proper place. Regular inspections will be conducted to monitor potential slope failures on open cast mine faces, as well as on ore and overburden benches. In the event that any abnormal conditions are identified	Nil Upto 3rd Year – 40.45 Lakhs	Nil	Nil

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
				<p>during these inspections, they must be promptly reported to the relevant department for immediate attention as well as corrective & preventive action.</p> <p>Speed limits, dedicated coal transportation route will be followed to avoid accidents.</p> <p>We will adopt environmental protection measures in the proposed mining project for control of sound & air pollution. Massive plantation drives in the project (about 25,74,000 nos. of native species is envisaged over a period of 37 years of Mine Life in backfilled area, safety zone and infrastructure) and surrounding areas for better local environment will be done. Rs 5146.41 Lakhs (Capital Cost) earmarked for the same. Pollution levels will be strictly controlled and maintained in accordance with the standards and norms set by the Pollution Control Board.</p>			
7.	Mr. Nilubehbra, Chhendipada Angul	<p>Due to coal mining activity in the area the dust emission will be caused which will affect the adjacent agriculture land and degradation of environment shall take place in the surrounding area. We are depending on agriculture. Our life and liberty will be in danger due to pollution. Due to this reason the said coal mining should not be allowed to operates.</p>		<p>We will adopt environmental protection measures in the proposed mining project for control of pollution. Massive plantation drives in the project (about 25,74,000 nos. of native species is envisaged over a period of 37 years of Mine Life in backfilled area, safety zone and infrastructure) and surrounding areas for better local environment will be done.</p> <p>Truck Mounted Tanker with Mist Spray Sprinkling Arrangement, Mobile Water Mist Spray Sprinkler, fog cannon, etc. will be installed around the coal stockyard area, permanent haulage roads, and transportation routes</p>	Upto 3rd Year – 40.45 Lakhs 2367 Lakhs	3511 Lakhs	4194.9 Lakhs

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
				to control dust and ensure effective dust suppression. We have proposed Capital Expenditure of INR 13919.31 Lakhs and Recurring Expenditure of INR 315.7 Lakhs for implementation of the suggested Environment Management Plan such as Continuous Air Monitoring, SW & GW Monitoring, Solar lighting arrangement, Rainwater Harvesting, Soil Preservation, Green Belt Development, Ecological Conservation Measures, etc.			
8.	Biswamitra saho (Secretary), Gobrdhana Nayak (President), Subasini Pradhan, Benudhar Gharnayak, Jhunu Behera, Dalimbha Majhi, Sudhkar Majhi, Saroj Majhi, Pratap Gadanaik, Sambhu Gadanaik, Shyam Sundar Pradhan, Upendra Gardnaik, Deba Garanaik, Sanjay Kumar Sahu, Souvagini Garnaik, Ichabati Nayak, July Pradhan, Jamuna Maji, Jatak Maji, Ranjita Maji, Basanti Maji, Rita Maji, Sukanti Maji, Nibedita Maji, Duhita Maji, Basanti Maji, Joysna Nayak, Arati Maji, Mally Nayak,	We all the residents of the region through the Anchalika surakhya mancha Chendipada are informing that on the day of the said public hearing we came in protest of about 5000 women and men and stood outside the platform. As per advertisement dtd 24/09/2024 for public hearing was held in connection with the environmental clearance of the proposed project at Chendipada was one sided. The affected people were not given a chance to enter and speak In the said meeting, the public hearing was quickly closed after the speeches of a few people including our M.L.A, District Councilor, Sarpanch and Samiti members. This is a gross insult to democracy		A public hearing was conducted in accordance with the EIA Notification 2006 and its subsequent amendments. The Additional District Magistrate chaired the public hearing to ensure equal participation of all the stakeholders present. Kumbhira Nala and Supai Nala (Gurkha Nala) pass through the ML. Supai Nala will be diverted, while Kumbhira Nala will remain undisturbed. All necessary precautionary measures as mentioned in the EIA will be implemented to ensure the conservation of water resources. Sec 7 refers to Land acquisition, Land Rights have been obtained by Gujarat Mineral Development Corporation under Sec 11(1) of CBA & henceforth Sec 19 of CBA has been published. As per the forest record there are 29 numbers Schedule I Species listed in the study area. A comprehensive Regional Wildlife conservation plan (WLCP) is under preparation at DFO level. PP will deposit the proportionate amount as	Nil	Nil	Nil

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
	Abanti Maji, Dalimba Maji, Santi Dehury	in a democratic country. We regret to inform you that none of the villages were informed about obtaining the company license (GMDC) nor was any notification issued under section 7 of the Act and subsequently the company and the administration carried out arbitrary genocide without any discussion with the villagers to acquire the land. Some of the employees of the company are tempting simple villagers to sign Aadhaar cards, documents and signature in plain papers. Chendipada village and surrounding villages are a densely populated area and 90 percent of the total population will be affected. Apart from this, Angul district has been declared as one of the hottest regions in the country due to the number of factories and mines that have been built in the entire region. There is a passage for animals such as Elephants, bears, Monkeys and there are two water projects in this Chendipada jungle, the Kumbhira Canal Project and the Gurkha Canal Project, for which a lot of agricultural land will be lost due to the		per the direction of Forest Department. Further Site-Specific Conservation Plan has been prepared & approved by PCCF & Chief Wildlife Warden, Odisha. A budgetary provision of 37.26 Cr (Including 5% of the total financial outlay of the SSWLCP to be deposited in Wildlife Society of Odisha) is earmarked for 10 years.			

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
		irrigation. Therefore, we respectfully request you to consider this matter carefully and provide us with proper justice. we will be grateful for you.					
9.	Biswamitra saho (Secretary), Gobrdhana Nayak (President), Anchalika Surakhya Mancha, Chhendipada	We, the 70 members of the community of Chendipada Tehsil Chendipada Jungle Village, Police Station No. 75, District Angul, declare that, as per the advertisement, a public hearing was held in Chendipada on 24/09/2024 in the context of the environmental clearance of the proposed project was one sided. The affected villagers were not allowed to enter the stage and not given the opportunity for speeches. In the said meeting, the public hearing was quickly closed with response of a few people including our M.L.A, District Councilor, Sarpanch and Samiti members. Apart from this, Angul district has been declared as one of the hottest regions in the country due to the number of factories and mines that have been built in the entire region. There is a passage of wild animals like elephants, bears, monkeys and there are two water projects in this		A public hearing was conducted in accordance with the EIA Notification 2006 and its subsequent amendments. The Additional District Magistrate chaired the public hearing to ensure equal participation of all the stakeholders present. There are no ecologically sensitive areas within the Mine Lease (ML) area. Kumbhira Nala and Supai Nala (Gurkha Nala) pass through the ML. Supai Nala will be diverted, while Kumbhira Nala will remain undisturbed. All necessary precautionary measures as mentioned in the EIA will be implemented to ensure the conservation of water resources. As per the forest record there are 29 numbers Schedule I Species listed in the study area. A comprehensive Regional Wildlife conservation plan (WLCP) is under preparation at DFO level. PP will deposit the proportionate amount as per the direction of Forest Department. Further Site-Specific Conservation Plan has been prepared & approved by PCCF & Chief Wildlife Warden, Odisha. A budgetary provision of 37.26 Cr (Including 5% of the total financial outlay of the SSWCP to be deposited in Wildlife Society of Odisha) is earmarked for 10 years.	Nil	Nil	Nil

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
		Chendipada forest area, namely the Kumbhira nala project and the Gurkha canal project, for which a lot of agricultural land will be lost due to the irrigation. So we all public through Anchalika Surakhya Mancha, Chhendipada opposing this public hearing & we will grateful for you if you could consider this & hold the public hearing. And we should be given full protection in a democratic nation.					
10.	Sri/Srimati Udayanath Dehuri father Chaitan Dehuri, Village Chendipada, Post Chendipada, Thana Chendipada, Tehsil Chendipada, District Angul	The proposed open cast coal project is a risky project Our crops, vegetables and fruits live in a peaceful environment with humans, and are a transit route and habitat for animals and birds. The above-mentioned are very fertile and is used for agricultural purposes for many crops including paddy, wheat, maize, pulses and a variety of vegetables. I demand the withdrawal of proposal issued for land acquisition and environmental clearance or the establishment of the coal project without taking my opinion. I cannot transfer this land for coal mining at any price. Therefore I		Mining operations will commence only after obtaining the necessary statutory clearances, including Environmental Clearance (EC), Forest Clearance (FC), Consent to Establish (CTE), Consent to Operate (CTO), and other applicable approvals. All mining activities will be carried out in accordance with the Mine Plan approved by the MOC. Land Rights have been obtained by Gujarat Mineral Development Corporation under Sec 11(1) of CBA & henceforth Sec 19 of CBA has been published. An attractive R&R package has been communicated to all the affected families, which is much better than the package specified in Odisha R&R policy 2006 & the previous RPDAC. The package includes cash compensation in lieu of homestead land and structures. Rs. 727.94 crores have been	Nil	Nil	Nil

S. No.	Name and address of the Participants	Question/ Issues Raised	Category of Issue Raised	Commitment by Project Proponent	Year Wise Breakup		
					1 st	2 nd	3 rd
		informed you to take appropriate action		earmarked for R&R (excluding land compensation).			

Summary of activity and amount earmarked to address the PH concerns/issues

Sr. No.	Activities	Location (Name of School/Village/Area)	Year 1	Year 2	Year 3	Total (In Lakhs)
1	Development of Local Area (Rural infrastructure, Community Health, Art & Culture, Education & Sports etc.)*	Chhendipada Jangal, Chhendipada RF, Handigora, Machhakuta, Machhakuta Jangal, Porapara, Porapara Jangal, Tentuloi-Korasahi Village	100	150	150	400
2	Protection of water bodies	Chhendipada Jangal, Chhendipada RF, Handigora, Machhakuta, Machhakuta Jangal, Porapara, Porapara Jangal, Tentuloi-Korasahi Village	335	335	330	1000
3	Pollution Control*		2,266.55	3,391	3391	9048.55
4	Skill Development /Employment to the local people*		50	50	75	175
5	Compensation to land losers*		40000	60000	-	100000
6	Protection of wildlife		3726.40	-	-	3726.40
7	Concern for drinking water*		100	100	150	350
	Total			46577.95	64026	4096

*The activity shall be continued till life of the mine and fund will be spent accordingly.

15. EMP Budget: The capital cost of the proposed project is Rs 385500 Lakhs and the capital cost for environmental protection measures is proposed as Rs 10072 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 315 Lakhs. The employment generation from the proposed project is 1752 nos. The details of cost for environmental protection measures is as follows:

S. No	Activity	Capital Cost (in Lakhs)	Recurring Cost (in Lakhs)
1	Truck Mounted Tanker with Mist Spray Sprinkling Arrangement (25m) for Haul Roads/Mine/Safety zone etc.	150	10
2	Mobile Water Mist Spray Sprinkler for transport route	150	3
3	Fixed type Mist spray at Coal stockpile/crusher/Transfer Points etc.	85	2
4	Fixed type Mist Spray System (long range) at proposed Railway Siding	50	1
5	Wind Barrier Wall & Vertical Greenery System at proposed Railway Siding	5	0.5
6	Mechanized Sweeping of Roads Electrically Operated	30	1
7	Dust arrester equipped with drilling machine	350	5.25
8	Garland Drain	38	1
9	Boulder Check Plug	5	0.075
10	Mine Water Sedimentation Pond & Pumps	125	2

S. No	Activity	Capital Cost (in Lakhs)	Recurring Cost (in Lakhs)
11	Noise Level Indicator (Fixed)	24.5	0.3675
12	Continuous Air Monitoring Station	150	10
13	Piezometer for Hydrogeological Monitoring (including drilling)	50	0.75
14	Vibration Monitoring Equipment	10	0.15
15	SW&GW Monitoring	5	0.075
16	Solar lighting arrangement	50	5
17	Rainwater Harvesting	75	1.125
18	Soil Preservation	17.5	0.2625
19	Green Belt Development including Plantation over backfilled, other area within ML and Fencing for green patch.	2474	221.62
20	Fire tender	37.5	2
21	Advance Firefighting equipment, Fire extinguisher, smoke detectors (for office and workshop), firefighting Drones, fire Automatic Fire Detection and alarm system etc,	200	3
22	Personnel Protection Equipment (goggles, gloves, helmets, dust mask, safety boots)	5	2
23	Topsoil Management	1026	1
24	Awareness Programme (Display Boards (Digital) etc.	30	1
25	Ecological Conservation Measures	50	2
26	Barbed Wire Fencing for protection of void	94	0.375
27	CCTV camera for monitoring loading and transport, mine blast, fire, dust generation monitoring,	10	0.15
28	Equipment for Plantation O & M like water tanker, tractor with trolley, other equipment	50	2
29	Biodiversity Conservation Measures	3726.40	10
30	Action plan for Water Conservation (Supai Nala Diversion and Conservation, Construction of Kumbhira Nala Embankment, etc.)	1000	27
Total		10072.9	315.7

16. Plantation: Proposed greenbelt will be developed in 86.5 ha which is about 7.23% of the total ML area. A total of 1029.583 ha area (86.08% of total ML area) will be covered under plantation. A 5-10 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and Native species will be planted with a density of 2500 trees per hectare. Total no. of 25,74,000 saplings will be planted and nurtured in 1029.583 hectares in 40 years.

17. Rehabilitation & Resettlement: PP submitted that, total 7 villages namely Chhendipada Jangal- (Part), Handigora- (Part), Machhakuta - (Part), Machhakuta Jangal- (Part), Porapara- (Part), Porapara Jangal - (Full), Tentuloi-Korasahi- (Part) are going to get affected by proposed project. Total Project Affected Families (PAF) is 2664 Nos and Project Displaced Families (PDF) is 1629 Nos. These displaced families will be resettled and rehabilitated socially, culturally and economically as per the latest R&R policy (2006 & subsequent amendments) of Govt. of Odisha. As on date Socio Economic Survey, Identification of Rehabilitation Site, etc have been completed. R&R cost is Rs. 72794 Lakhs.

18. Project Cost: PP submitted that the project cost is Rs. 385500 Lakhs and the capital cost for environmental protection measures is proposed as Rs 10072 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 315 Lakhs.

19. Details of pending litigations: PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act,

ii) Air (P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

20. Undertaking/ Affidavit: PP vide an affidavit submitted that, there is no construction/mining done at the site, there is no litigation on the project either at Hon'ble NGT or any other Court of Law, that the land rights have been obtained by Gujarat Mineral Development Corporation under Sec 11(1) of CBA & henceforth Sec 19 of CBA has been published and there will be R&R for displaced families, there is no difference in the documents submitted Le, Common Application Form. Form 1, Part A, Part B, Part C, EIA/EMP report and presentation being made to the EAC. As per EIA notification dated 14th September 2006 and its amendments, the project falls under Activity 1 (a) Mining of Minerals. As per MoEF&CC Notification No. S.O. 1886(E) dated 20th April 2022, all the Coal Mining Projects with lease area more than 500 ha has been classified as Category "A" projects. Therefore, the project will be considered at central level.

Further, vide an Undertaking, PP submitted that the information provided in Form-1 Part-A, Part-B & Part-C in physical form and/or in .pdf format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 29th October 2025 have no deviation in respect of the proposal no. IA/OR/CMIN/545513/2025 for EC for coal mining having 1196 ha of ML area/Project area and capacity of 15 MTPA for Coal Mine Project located at village Chhendipada Jangal, Chhendipada RF, Handigora, Machhakuta, Machhakuta Jangal, Porapara, Porapara Jangal, Tentuloi-Korasahi, Tehsil - Chhendipada, District – Angul, State – Odisha by M/s. Gujarat Mineral Development Corporation Ltd (GMDC). There are no data entry errors in the information uploaded in PARIVESH system including names/email-id/mobile numbers/address of the project proponent, authorized person, etc. It is also certified that the supporting documents uploaded on PARIVESH portal are correct and duly authenticated by the Authorized Signatory. In case of any deviation in data found in any of the documents, the Authorized Signatory shall be held responsible and furthermore, the above said project shall be rejected for grant of amendment in EC.

21. Written Submissions: PP submitted the following during the meeting:

S. No.	Observation	Reply
1.	Plan for Construction of Hospital	GMDC is already in process for setting of a Hospital at Chhendipada Town in 10 acres area with estimated capital cost of Rs 18 Cr. The relevant Letter from GMDC to DC, Angul and letter from DC Angul to Tahsildar Chhendipada is submitted.
2.	Plan for construction of school	GMDC, through its Gram Vikas Trust, is planning to establish CBSE School up to 12th Standard at Chhendipada Town, Dist. Angul, Odisha with estimated capital cost of Rs 10.5 Cr. In this matter, we already have requested Regional Director of DAV School at Bhubaneshwar, Odisha vide letter dated 15/07/2025. Further, we also have requested the Collector & District Magistrate of Dist. Angul vide letter dated 30/07/2025 to allocate land for the setting up of English Medium CBSE School at Chhendipada, Dist. Angul. For allocation of land, an application has already been submitted to IDCO vide Form IA. Relevant communications in this regard are submitted.
3.	Details of Embankment	Earthen embankment of 3 km length & height of 3 m above HFL will be provided along the Kumbhira Nala for its protection. OB material shall be used for construction of embankment. Schematic diagram of embankment & Plan showing Kumbhira nala within ML area is submitted.
4.	Action plan for 3 MW solar power plant	GMDC will install both rooftop & Ground mounted solar power installations to generate 3 MW solar power with a capital budget of 12.24 Cr. There will be annual operation & maintenance cost of approx. 5% of CAPEX. The solar power will be used in office building, VTC, parking, workshop, CHP, high mast tower & conveyor belt, etc. The action plan is submitted.
5.	PH Action plan with Timeline	Revised PH Action plan is submitted.
6.	Coal Evacuation Plan for road transport (Norms for vehicle)	Dedicated road of 2.1 km up to nearest MDR shall be made for coal evacuation. For coal evacuation outside mine boundary, a mandatory condition will be included in the transport contract, mandating engagement of BS-VI compliant vehicles only.

S. No.	Observation	Reply																																				
7.	Plan for deployment of electric vehicles to be used for internal transportation	For the transportation of 15 MT of coal from the mine to surface, total number of 50 dump trucks (capacity: 35 Te) will be required. Out of these, 20 Nos. of EV dump trucks will be deployed within first three years of start of mining operation.																																				
8.	Revised plantation budget with timeline	CAPEX of Rs. 51.46 Cr shall be earmarked for plantation program to cover 1029.583 ha area over a span of 40 years. The timeline & budget for planation is submitted.																																				
9.	Phase wise installation of inpit conveyor belt	The in-pit conveyor can be installed by 5 th year of mine operation due to availability of required space for the in-pit conveyor. Letter in this regard is submitted.																																				
10.	Capacity & Technology of STP	STP of MBBR Technology with total capacity of 120 KLD will be installed within ML area.																																				
11.	Mitigation measures for Tiger corridor	Mitigation measure for Tiger Corridor is submitted, as follows:																																				
12.	Schedule I species to be mention	There are 29 Schedule I species as per site Specific Wildlife conservation plan approved by PCCF & Chief wildlife warden, Odisha as well as mentioned in the EIA report. The list is submitted.																																				
13.	Updated Annexure II & Annexure III (agenda documents)	Updated Annexure II & Annexure III are submitted.																																				
14.	Grazing land details	<p>Details of grazing land for Baitarni West Coal Mine:</p> <table border="1"> <thead> <tr> <th>Village</th> <th>Total Gauchar land (Ha)</th> <th>Diversion of land under process (Ha)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>Chendipada Jungle</td> <td>24.4379</td> <td>18.8838</td> <td>Payment under process</td> </tr> <tr> <td>Handigura</td> <td>47.0128</td> <td>46.349</td> <td>Payment completed</td> </tr> <tr> <td>Machakuta</td> <td>2.6225</td> <td>2.479</td> <td>Payment completed</td> </tr> <tr> <td>Machakuta Jungle</td> <td>8.347</td> <td>8.347</td> <td>Payment completed</td> </tr> <tr> <td>Parapoda</td> <td>10.838</td> <td>-</td> <td>-</td> </tr> <tr> <td>Parapoda Jungle</td> <td>5.5917</td> <td>0.746</td> <td>Payment completed</td> </tr> <tr> <td>Tentoloi Kodasha</td> <td>19.6298</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>118.4797</td> <td>76.8048</td> <td>76.8048 Ha of Gauchar land is adequate for mining for 8 years.</td> </tr> </tbody> </table>	Village	Total Gauchar land (Ha)	Diversion of land under process (Ha)	Remarks	Chendipada Jungle	24.4379	18.8838	Payment under process	Handigura	47.0128	46.349	Payment completed	Machakuta	2.6225	2.479	Payment completed	Machakuta Jungle	8.347	8.347	Payment completed	Parapoda	10.838	-	-	Parapoda Jungle	5.5917	0.746	Payment completed	Tentoloi Kodasha	19.6298	-	-		118.4797	76.8048	76.8048 Ha of Gauchar land is adequate for mining for 8 years.
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15.	CAAQMS installation in buffer	2 no. CAAQMS inside ML area and 2 no. in buffer area will be installed in consultation with Odisha Pollution Control Board.																																				
16.	Wind Barrier	Wind barrier shall be provided at coal stock yard. Canon, Mist Spray Sprinkling Arrangement, Fixed type Mist spray at Coal stockpile/crusher/ Transfer Points will also be provided. Details are mentioned in EIA.																																				
17.	Plantation, solar plant & drinking water for schools within 1.0 km	There are 11 schools/college within 1 km of ML area. Three layer plantation shall be done for college/School within ML area till relocation. Thick plantation shall be provided along the boundary of the Schools/Academy outside the ML area in consultation with the concerned authorities. Solar power system & drinking water facility shall be provided to all Schools/Colleges within 1 km of ML area in consultation with the concerned																																				

S. No.	Observation	Reply
		authorities.
18.	MoC letter for 1196 ha area	The letter from Ministry of Coal confirming the ML area of 1196 ha is submitted.
19.	Training of ChatGPT & AI in skill development program	Training of ChatGPT & AI will be included in GMDC's skill development program
20.	Land use to be corrected	Updated land use is submitted.

Observation and deliberation of the EAC:

22. Committee after deliberations noted the following:

i. The instant proposal is for grant of environment clearance to M/s Gujarat Mineral Development Corporation Ltd (GMDC) for Baitarni West Opencast Coal Mine, within an area of 1196 Ha for the production capacity of 15 MTPA, located at villages: Chhendipada, Jangal, Handigora, Machhakuta, Machhakuta Jangal, Porapara Jangal, Tentuloikorasahi; Tehsil: Chhendipada; District: Angul; State: Odisha.

ii. The instant proposal is a Greenfield opencast project.

iii. The EAC took into consideration the project site through kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.

iv. Project does not fall in the Critically Polluted Area/ Severely Polluted Area, as per CEPI Assessment 2018.

v. The project involves total 64.3723 Ha of forestland. Application for the same has been submitted by the PP and Stage – I forest clearance is yet to be obtained. There is no forestland broken till date and the said project does not involve violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980. Member Secretary apprised the EAC that, as per OM dated 09/09/2011, after the EAC has recommended the project for environmental clearance, it would be processed on file for obtaining decision of the Competent Authority for grant of environmental clearance. In the cases where the Competent Authority has approved the grant of environmental clearance, the proponent will be informed of the same and a time limit of 12 months will be given to submit the requisite Stage – I forestry clearance. On receipt of the same, formal EC letter will be issued by the Ministry.

vi. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/ elephant corridor etc. As per the letter dated 25.08.2025, obtained from PCCF, it is informed that no elephant corridor is passing through the Mining Lease boundary of the project. However, there is a tiger corridor at a distance of 4 km from the ML area. Committee deliberated on the mitigation measures proposed to be followed for the said tiger corridor and PP submitted the same. Committee opined that all the mitigation measures shall be diligently followed in a time bound manner.

vii. There is presence of several Schedule – I species within the study area. A Site-Specific Wildlife Conservation Plan has been prepared and approved by PCCF & Chief Wildlife Warden, Odisha, vide letter no. 10454/CWLW-FDWC-FD-0004-2025, dated 25.09.2025. A budgetary provision of Rs. 37.26 Crores (Including 5% of the total financial outlay of the SSWCP to be deposited in Wildlife Society of Odisha) is earmarked for 10 years. Committee opined that the allotted budget shall be deposited with the wildlife division at the earliest.

viii. Committee deliberated on the sensitive receptors present within the ML area and within the buffer zone. Committee observed that there are several schools present within the study area and sought the protection measures proposed to be followed for the same and observed that the schools present within the ML area are proposed to be relocated as part of R&R plan. Further, as per the recommendations of the EAC, PP has submitted the protection measures for the schools within the close vicinity of the ML area. PP submitted that three layer thick plantation will be done with the native species around the schools within 1 km from the ML area within 2 years from the date of obtaining the EC by planting the saplings of not less than 4 feet height.

ix. Committee observed that, the mine was earlier allotted to M/s Odisha Mining Corporation Ltd. The Ministry of

Environment, Forest and Climate Change has granted Terms of Reference to Baitarni West Opencast Coal Mine of OMC with production capacity of 15 MTPA in an area of 1196 ha vide its letter with File No. IA-J- 11015/81/2017- IA-II (M) dated 10th November, 2021. Vesting order was issued in favor of Gujarat Mineral Development Corporation, being successful bidder, vide order NA-104/4/2023-NA, dated 08/06/2023, after auction of the mine, for the purpose of sale of coal including sale to affiliates and related parties, utilization of coal for any purpose including but not limited to captive consumption, coal gasification, coal liquefaction and export of coal.

Accordingly, M/s Gujarat Mineral Development Corporation Ltd applied for transfer of Terms of Reference and has submitted the affidavit dated 22nd September, 2023 stating to comply with all the Environmental Safeguards as per the terms and conditions as stipulated in Terms of Reference (ToR) granted on 22.11.2021 to OMC Ltd. MoEF&CC transferred the TOR from M/s Odisha Mining Corporation Ltd to M/s Gujarat Mineral Development Corporation Ltd., on the same terms and conditions as mentioned in the TOR issued vide file no : IA-J- 11015/81/2017- IA-II(M) dated 06.11.2023.

x. Mining Plan for 15 MTPA (Normative) capacity for Open Cast Mechanized operation was approved by MOC vide letter no SWCS/Baitarni West Coal Mine/OR/AN/2021/CCO-MCBA dt. 10.11.2021 and transferred in the name of GMDC through vesting order NA-104/4/2023-NA, dated 08/06/2023.

xi. Method of mining to be adopted shall be opencast method of coal mining by surface miner, pay loader and tipper and OB removal by shovel dumper combination. The gross geological reserves are 662.94 MT and net geological reserves are 602.1106 MT out of which mineable reserves are 485.06 MT and extractable reserves are 468.27 MT. The percentage of extraction is 77.771%.

xii. Grade of coal is G-12 and stripping ratio is 1.5278 m³/ tonne. Life of mine is 37 years (including construction period).

xiii. Committee deliberated on the details of top soil management and observed that, 1 nos of top soil dump is proposed in an area of 2.34 Ha. 1.866 million m³ of top soil is proposed to be generated and the same will be utilized for plantation activity on the backfilled area, external dump and embankment.

xiv. Committee further deliberated on the over burden generation and observed that, 1 nos. of External OB Dump within an area of 215.84 ha with 90 m height, accommodating 140.25 Mm³ of OB and 1 nos. of internal OB dump in an area of 623.71 Ha with 573.30 Mm³ of OB with a height of up to the ground level are proposed. Both the OB dumps will be reclaimed with plantation by the end of the mine life.

xv. Committee deliberated on the method of evacuation of coal proposed for the said project and observed that from in-pit to surface, the coal is proposed to be transported through dumpers and conveyor. From surface to siding the coal is proposed to be transported by conveyor upto a distance of 3 km and from siding to loading the coal will be transported through rapid loading system. PP submitted that out of the total coal production of 15 MTPA, 12 MTPA shall be transported by rail and remaining 3 MTPA will be transported by road up to a distance of 100 km. Committee opined that only 10% of the total coal production (i.e., 1.5 MTPA) shall be allowed to be transported by road.

Apart from this, during the deliberation as per the submissions made by the PP Committee opined that the PP shall, deploy atleast 20 nos of electronic dump trucks for the mining project.

Committee opined that PP shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Committee also opined that PP shall do intense plantation with the native species on both the side of the coal transportation road within 2 years from the date of obtaining the EC by planting the saplings of not less than 4 feet height to further control the dust and noise pollution.

Committee deliberated on the baseline data submitted by the PP and observed that, the baseline data has been collected during October to December 2023. The environmental parameters are observed to be within the permissible limits. Committee opined that, PP shall install 4 CAAQMS in the said project, 2 each in the core zone and the buffer zone, in consultation with the concerned SPCB.

xvi. The water requirement for the said project is observed to be 3620 KLD (1020 KLD for domestic use and 2600 KLD

for industrial use). Initially the source of water shall be ground water and later the demand shall be fulfilled by mine inflow water. Application for permission of ground water has been submitted vide application no. MIN/OD/2025/534 dated 09.01.2025.

Committee observed that a small seasonal nallah flowing in the NE direction of the ML area is proposed to be diverted for mining operation in the 10th year of mining operations as per the approved mine plan. Length of diversion will be 2.3 km. Committee opined that, PP shall divert the said nallah with the prior approval of the State Water Resource Department.

Further, Committee opined that the PP shall develop an embankment along the Kumbhira nallah of 3 m height above the HFL level. Greenbelt shall also be developed along the embankment within 3 years from the date of obtaining the EC by planting the saplings of not less than 4 feet height.

xvii. Committee deliberated on the public hearing conducted for the said project. The PH action plan submitted also included the CSR activities. Committee sought a rectified PH action plan and PP submitted the same. The total amount proposed to be spent is Rs. 114699.95 Lakhs. Committee opined that the same shall be utilized in the time bound manner.

xviii. Committee deliberated on the EMP budget submitted by the PP and observed that the capital cost allotted is Rs. 10072.9 Lakhs and recurring cost allotted is Rs. 315.7 Lakhs.

xix. Committee deliberated on the plantation plan submitted by the PP and observed that, greenbelt is proposed to be developed in 86.5 Ha area, i.e. 7.23 % of the total ML area. Including the greenbelt, total 1029.583 Ha area will be covered under plantation. A 5-10 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover within 3 years from the date of obtaining the EC by planting the saplings of not less than 4 feet height as per CPCB/MoEF&CC, New Delhi guidelines. Local and Native species will be planted with a density of 2500 trees per hectare. Total no. of 25,74,000 saplings will be planted and nurtured in 1029.583 hectares in 40 years by planting the saplings of not less than 4 feet height. Committee opined that PP shall also focus on community plantation and shall distribute fruit bearing species to the villagers to plant and nurture the same.

xx. There are total 7 villages namely Chhendipada Jangal- (Part), Handigora- (Part), Machhakuta - (Part), Machhakuta Jangal- (Part), Porapara- (Part), Porapara Jangal - (Full), Tentuloi-Korasahi- (Part) are going to get affected by proposed project. Total Project Affected Families (PAF) is 2664 Nos and Project Displaced Families (PDF) is 1629 Nos. These displaced families will be resettled and rehabilitated socially, culturally and economically as per the latest R&R policy (2006 & subsequent amendments) of Govt. of Odisha. As on date Socio Economic Survey, Identification of Rehabilitation Site, etc have been completed. R&R cost is Rs. 72794 Lakhs. Committee opined that the R&R plan shall be implemented in a time bound manner and the compliance in this regard shall be submitted to the Ministry's concerned RO.

xxi. PP submitted that the project cost is Rs. 385500 Lakhs.

xxii. There is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

xxiii. Committee opined that PP shall also install a 3 MW solar power plant within the ML area and the same shall be utilized to meet the power requirements for the said project.

xxiv. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.

xxv. The EAC also deliberated on the written submissions of the project proponent and found it satisfactory.

Recommendations of the Committee:

23. Based on the discussions held and the documents submitted, the EAC recommended the proposal of Environment Clearance for "Baitarni West Opencast Coal Mine (area: 1196 having production capacity 15 MTPA) by M/s Gujarat Mineral Development Corporation Limited located at villages: Chhendipada Jangal, Chhendipada RF, Handigora,

Machhakuta, Machhakuta Jangal, Porapara Jangal, Tentuloikorasahi; Tehsil: Chhendipada; District: Angul; State: Odisha”, under the provisions of EIA Notification, 2006 (as amended), subject to the compliance of the following specific conditions in addition to the general/Standard EC conditions (**Annexure-I**).

24. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC hereby accords Environmental Clearance to M/s Gujarat Mineral Development Corporation Limited for “Baitarni West Opencast Coal Mine (area: 1196 having production capacity 15 MTPA), located at villages: Chhendipada Jangal, Chhendipada RF, Handigora, Machhakuta, Machhakuta Jangal, Porapara Jangal, Tentuloikorasahi; Tehsil: Chhendipada; District: Angul; State: Odisha” subject to compliance of the Specific Environmental safeguard Conditions in addition to the standard EC conditions (**Annexure-I**).

25. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

26. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

27. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.

28. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

29. General Instructions:

(i) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.

(ii) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.

(iii) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.

(iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

(v) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

(vi) The Regional Office of this MoEF&CC shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

(vii) Validity of EC is as per the provision of EIA Notification, 2006 and its subsequent amendment.

30. This issue with an approval of the Competent Authority.

Yours faithfully,
(Sundar Ramanathan)
Scientist ‘F’

Copy To

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. The Deputy Director General of Forests, Regional office (EZ), Ministry of Environment & Forests, A-31, Chandershekharpur, Bhubaneswar- 751023 (Odisha).
3. The Secretary, Department of Environment & Forests, Government of Orissa, Secretariat, Bhubaneswar (Odisha).
4. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
5. The Chairman, Orissa State Pollution Control Board, Parivesh Bhawan, A/118, Nilkanthanagar, Unit VIII, Bhubaneswar - 751012 (Odisha).
6. District Collector, Angul, Government of Odisha.
7. PARIVESH Portal

Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Specific Conditions:

S. No	EC Conditions
1.1	The forestland of 64.723 Ha on which stage – I forest clearance has been accorded shall not be disturbed until the stage – II forest clearance is accorded for the same as per the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.
1.2	Total 2664 Nos of Project Affected Families (PAF) and 1629 Nos of Project Displaced Families (PDF) of the villages namely Chhendipada Jangal- (Part), Handigora- (Part), Machhakuta - (Part), Machhakuta Jangal- (Part), Porapara- (Part), Porapara Jangal - (Full), Tentuloi-Korasahi- (Part) are proposed to be rehabilitated and resettled. These displaced families shall be resettled and rehabilitated socially, culturally and economically as per the latest R&R policy (2006 & subsequent amendments) of Govt. of Odisha. Compliance status in this regard shall be submitted to the concerned Regional Office of MoEF&CC along with the six-monthly compliance report.
1.3	The project proponent shall install a solar power plant of 3 MW within the ML area as committed.
1.4	Project proponent shall develop an embankment along the Kumbhira nallah of 3 meters height above the HFL, within 3 years from the date of grant of EC and the embankment shall be strengthened with plantation of native species with the height of saplings of not less than 4 feet.
1.5	The project proponent shall obtain prior approval of State Water Resource Department for diversion of seasonal nallah flowing in the NE direction of the ML area to the length of 2.3 km only after leaving adequate safety distance from the mining operations, as per the DGMS guidelines. Compliance in this regard shall be submitted to the Regional Office of MoEF&CC along with the six-monthly compliance report.
1.6	As committed, Project proponent shall establish a 30 bedded hospital at Chhendipada Town, with all the modern facilities and the requirements of the nearby villagers. The hospital shall be established within 5 years from the date of grant of EC.
1.7	As part of R&R Plan, project proponent shall establish an English medium CBSE School up to 12th

S. No	EC Conditions																																				
	Standard at Chhendipada Town, Dist. Angul, Odisha with estimated capital cost of Rs 10.5 Cr, as committed.																																				
1.8	Project proponent shall install in-pit conveyor system from pit to the surface within 5 years from the date of grant of EC. Thereafter, the entire coal shall be transported only by in-pit conveyor and transportation by dumpers from pit to surface is not permitted.																																				
1.9	As committed, project proponent shall construct a 2.1 km dedicated coal transportation road up to the MDR. Conveyor belt shall be installed from mine to the railway siding within 5 years from the date of grant of EC to transport the coal. The entire coal shall be transported by rail to the final consumer except 10% (i.e., 1.5 MTPA) of the total coal production shall be allowed to be transported by road to the local consumers.																																				
1.10	Project proponent shall deploy at least 20 electronic dumpers for the coal transportation in the said project as committed.																																				
1.11	Project proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Committee also opined that PP shall do intense plantation with the native species on both the side of the coal transportation road within 2 years from the date of obtaining the EC by planting the saplings of not less than 4 feet height to further control the dust and noise pollution.																																				
1.12	<p>Project proponent shall carryout plantation by the saplings of not less than 4 feet height in total 1029.583 Ha of the ML area in the 40 years. The plantation shall be carried out in the following the manner, as committed:</p> <table border="1" data-bbox="336 1137 1469 1597"> <thead> <tr> <th data-bbox="336 1137 719 1171">Timeline</th> <th data-bbox="719 1137 1066 1171">Plantation Area (Ha)</th> <th data-bbox="1066 1137 1469 1171">Budget in Lakhs</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1171 719 1211">Upto 3rd Year</td> <td data-bbox="719 1171 1066 1211">8.09</td> <td data-bbox="1066 1171 1469 1211">40.45</td> </tr> <tr> <td data-bbox="336 1211 719 1252">4-5th Year</td> <td data-bbox="719 1211 1066 1252">19.75</td> <td data-bbox="1066 1211 1469 1252">98.75</td> </tr> <tr> <td data-bbox="336 1252 719 1292">6-10th Year</td> <td data-bbox="719 1252 1066 1292">36.32</td> <td data-bbox="1066 1252 1469 1292">181.60</td> </tr> <tr> <td data-bbox="336 1292 719 1332">11-15th Year</td> <td data-bbox="719 1292 1066 1332">95.09</td> <td data-bbox="1066 1292 1469 1332">475.45</td> </tr> <tr> <td data-bbox="336 1332 719 1373">16-20th Year</td> <td data-bbox="719 1332 1066 1373">32.97</td> <td data-bbox="1066 1332 1469 1373">164.85</td> </tr> <tr> <td data-bbox="336 1373 719 1413">21-25th Year</td> <td data-bbox="719 1373 1066 1413">113.23</td> <td data-bbox="1066 1373 1469 1413">566.15</td> </tr> <tr> <td data-bbox="336 1413 719 1453">26-30th Year</td> <td data-bbox="719 1413 1066 1453">22.9</td> <td data-bbox="1066 1413 1469 1453">114.50</td> </tr> <tr> <td data-bbox="336 1453 719 1494">31-35th Year</td> <td data-bbox="719 1453 1066 1494">107.73</td> <td data-bbox="1066 1453 1469 1494">538.65</td> </tr> <tr> <td data-bbox="336 1494 719 1534">36-37th Year</td> <td data-bbox="719 1494 1066 1534">137.97</td> <td data-bbox="1066 1494 1469 1534">689.85</td> </tr> <tr> <td data-bbox="336 1534 719 1574">38-40th year</td> <td data-bbox="719 1534 1066 1574">455.233</td> <td data-bbox="1066 1534 1469 1574">2276.16</td> </tr> <tr> <td data-bbox="336 1574 719 1597">Total</td> <td data-bbox="719 1574 1066 1597">1029.583</td> <td data-bbox="1066 1574 1469 1597">5146.41</td> </tr> </tbody> </table> <p data-bbox="336 1664 1469 1951">A 5-10 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover within 2 years from the date of obtaining the EC by planting the saplings of not less than 4 feet height as per CPCB/ MoEF&CC, New Delhi guidelines. Local and Native species will be planted with a density of 2500 trees per hectare. Apart from this, PP shall also carryout community plantation and shall distribute 50,000 plant saplings mostly fruit bearing species to the villagers to plant and nurture the same with incentive till the life of mine. Compliance in this regard shall be submitted to the Ministry's Regional Office along with the six-monthly compliance report.</p>	Timeline	Plantation Area (Ha)	Budget in Lakhs	Upto 3 rd Year	8.09	40.45	4-5 th Year	19.75	98.75	6-10 th Year	36.32	181.60	11-15 th Year	95.09	475.45	16-20 th Year	32.97	164.85	21-25 th Year	113.23	566.15	26-30 th Year	22.9	114.50	31-35 th Year	107.73	538.65	36-37 th Year	137.97	689.85	38-40 th year	455.233	2276.16	Total	1029.583	5146.41
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S. No	EC Conditions
1.13	Project Proponent shall install 4 number of CAAQMS, 2 each in the core zone and the buffer zone, in consultation with the Odisha Pollution Control Board as committed.
1.14	The proposed budget of Rs. 110603.95 Lakhs for PH action plan shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 3 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report.
1.15	Project proponent shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs. 10072.9 lakhs (Capital) and Rs. 315.7 Lakhs (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
1.16	Project proponent shall relocate the Government Primary School, Khuntanali & School at Handigoda as part of R&R Plan and in consultation with the District Administrative Department.
1.17	Project proponent shall carryout thick plantation with the saplings of native species of not less than 4 feet height around the schools within 1 km from the ML area of the said project, within 2 years from date of grant of EC. Transportation of coal from the roads passing through these schools shall be avoided and dust mitigation measures shall be undertaken on the roads passing through these schools. Apart from this, solar lights and drinking water facilities shall also be provided in the schools and colleges within 1 km of the ML area. Compliance in this regard shall be submitted to the concerned RO along with the six-monthly compliance report.
1.18	As part of skill development program, PP shall also introduce training in artificial intelligence tools.
1.19	Project proponent shall install wind barriers at the coal stock yard. Canon, Mist Spray Sprinkling Arrangement, Fixed type Mist spray at Coal stockpile/crusher/ Transfer Points shall also be provided, as committed.
1.20	Project proponent shall make the arrangements of the alternate grazing land in place of 118.8397 Ha of grazing land involved in the said project, as per the rules of the State Government.
1.21	Project proponent shall deposit the budgetary provision of Rs. 37.26 Crores (Including 5% of the total financial outlay of the SSWCP to be deposited in Wildlife Society of Odisha), with concerned wildlife division.
1.22	<p>Project proponent shall carryout the following mitigation measures towards the protection of the tiger corridor:</p> <p>a) Sufficient precautions shall be taken for the habitation colony and Mineral transportation road to restrict the movement of Tiger in the lease area.</p> <p>b) Habitat improvement programme shall be implemented in the corridor.</p> <p>c) Restoration of Habitat fragmentation in the corridor shall be done.</p> <p>d) Water & Moisture conservation in the corridor shall be implemented.</p>

S. No	EC Conditions
	<p>e) Wildlife habitat improvement shall be developed by the Forest department, so that prey density for the Tiger shall be maintained in the corridor.</p> <p>f) Periphery of the corridor shall be sealed by the Forest department to avoid the migration of Tiger to the habitation.</p> <p>g) Massive awareness programmed shall be undertaken by the Forest department in the fridge villages for conservation of the corridor.</p> <p>h) The SSWLCP has been approved by the Chief wild life warden amounting to Rs. 35,48,96,160/- vide letter no- 10454 date 25.09.2025. The same shall be implemented in a time bound manner.</p> <p>i) Besides this User agency shall contribute an amount of Rs.1,32,000 (Rupees One lakh Thirty two thousand) per hectare for the entire lease area of 1196 Ha. (both forest & non-forest area) towards RWLMP (Regional Wildlife Management Plan, which is under preparation by DFO, Angul) which also cover conservation of Tiger corridor.</p>
1.23	PP shall make use of advanced computer simulation techniques for design and execution of blasting operation in the mine. PP shall make use of Electronic Delay Detonators for optimal blasting in coal and OB rock to minimize the environmental impacts of blasting such as ground vibration, fly rocks and excessive dust generation.
1.24	PP shall create a “Public Grievance Redressal and Monitoring System” for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on “Public Grievance Redressal and Monitoring System.
1.25	Third-party audit (by NEERI/CIMFR/IIT/NITs) for air & water quality shall be carried out annually to keep a check on the same. PP shall implement the recommendations of the audit and submit the outcome of the audit to the concerned RO of MoEF&CC.
1.26	The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and RO of MoEF&CC.
1.27	Hon’ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent”. The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.
1.28	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment

S. No	EC Conditions
	Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non-compliance or infringement should be reported to the concerned authority.
1.29	PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six-monthly compliance report being submitted by PP.
1.30	Water shed/Natural drainage shall be carefully managed so that flow of water should go down side in the main streams/nallah.
1.31	PP shall carry out Occupational Health study by the Central Institute of Mining and Fuel Research (CIMFR) to aware the employees, preventing injury, and reducing the health issues in the workplace. All the recommendations of the study shall be complied by the proponent and project for next phase of expansion shall be submitted only after the compliance of the same.
1.32	Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Greenbelt development. The action in this regard shall be submitted concerned RO in six monthly compliance report.

Standard EC Conditions for (Mining of minerals)

1. Statutory Compliance

S. No	EC Conditions
1.1	The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
1.2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.3	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
1.4	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
1.5	Validity of Environment Clearance is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein

2. Air Quality Monitoring And Mitigation Measure

S. No	EC Conditions
2.1	Project proponent shall obtain requisite consent from State Pollution Control Board for 15 MTPA coal mining.
2.2	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board.
2.3	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
2.4	Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
2.5	Major approach roads shall be black topped and properly maintained.
2.6	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
2.7	PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.

3. Noise And Vibration Monitoring And Prevention

S. No	EC Conditions
3.1	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
3.2	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

4. Mining Plan

S. No	EC Conditions
4.1	Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
4.2	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
4.3	No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
4.4	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
4.5	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

5. Land Reclamation

S. No	EC Conditions
5.1	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
5.2	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
5.3	The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/”post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
5.4	Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.
5.5	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing,

S. No	EC Conditions
	if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.

6. Public Hearing And Human Health Issues

S. No	EC Conditions
6.1	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six-monthly basis.
6.2	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.
6.3	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
6.4	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
6.5	Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
6.6	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

7. Corporate Environment Responsibility

S. No	EC Conditions
7.1	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
7.2	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

8. Miscellaneous

S. No	EC Conditions
8.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
8.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
8.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
8.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
8.5	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
8.6	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
8.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8.8	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
8.9	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.
8.10	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
8.11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
8.12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
8.13	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
8.14	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention

S. No	EC Conditions
	& Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

9. Water Quality Monitoring And Mitigation Measures

S. No	EC Conditions
9.1	PP shall take approval from the CGWA/ Competent Authority prior to commencement of mining operations.
9.2	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September 2000 and as amended from time to time by the Central Pollution Control Board.
9.3	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27th May 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
9.4	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff
9.5	The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly
9.6	Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater.
9.7	Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.