



सत्यमेव जयते

File No.: J-11015/1072/2007-IA-II(M)
Government of India
Ministry of Environment, Forest and Climate
Change
IA Division



Dated 05/06/2026



To,

Sh. Rajiv Bharat Kumar
M/s. Hindalco Industries Limited
Ahura Centre, 1st Floor, B wing, Mahakali Caves Road, Andheri (East), Mumbai 400093, India
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Subject: **Chakla Opencast Coal Mine (North Karanpura Coalfield) (having production capacity of 4.5 MTPA within the ML area of 863 ha), by M/s Hindalco Industries Limited, located at Villages: Chakla, Hariyatoli, Nawatoli, Amwatanr & Ambuatanr; Tehsil: Chandwa; District: Latehar, State: Jharkhand – Environment Clearance based on submission of Stage – I forestry clearance as per MoEF&CC OM dated 19/06/2014 – regarding**

Sir/Madam,

This is with reference to your online application vide proposal no. IA/JH/CMIN/424605/2023 dated 06.04.2023 along with additional information dated 15/04/2026 and written submission dated 01.06.2026 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.	EC23A0101JH5379246N
(ii) File No.	J-11015/1072/2007-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	Chakla Opencast Coal Mine (North Karanpura Coalfield) (having production capacity of 4.5 MTPA within the ML area of 863 ha), by M/s Hindalco Industries Limited
(viii) Location of Project (District, State)	Latehar, Jharkhand

(ix) Issuing Authority

MoEF&CC

(x) Applicability of General Conditions

No

3. M/s. Hindalco Industries Limited has made an application online vide proposal no IA/JH/CMIN/424605/2023 dated 06.04.2023 along with copy of EIA/EMP Report & Forms (CAF, Part A, B & C) and seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. 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.

4. The instant proposal was earlier appraised in 43rd EAC Meeting held on 24.04.2023 and 46th EAC Meeting held on 26-27th June 2023. The same was recommended by the EAC in the 46th meeting, subject to submission of Stage – I forestry clearance, in accordance with the provisions of the Ministry's OM dated 09.09.2011 and its subsequent amendments. PP submitted the Stage – I forestry clearance letter on 15.04.2026, which is beyond the prescribed time period of 18 months. Hence, the proposal was referred back to the EAC as per Ministry's OM dated 19.06.2014 and was placed in the 43rd EAC Meeting held on 28-29th April 2026, wherein the proposal was deferred to seek for certain additional information. Subsequently, the proposal was further considered in 44th EAC meeting held on 19-20th May, 2026. The MoM for the same may be seen using the web link: parivesh.nic.in.

Details submitted by the project proponent

5. Chakla Opencast Coal Mine (North Karanpura Coalfield) of M/s Hindalco Industries Limited is for production capacity of 4.5 MTPA, within the ML area 863 ha, located at Villages: Chakla, Hariyatoli, Nawatoli, Amwatanr & Ambuatanr; Tehsil: Chandwa; District: Latehar, State: Jharkhand.

6. **Environmental Site Settings:** The mine lease area is covered under Survey of India Toposheet No. F45G7, F45G8, F45G11 & F45G12 and is bounded by the geographical coordinates ranging from Latitude: 23°43'01"N to 23°44'55"N and longitudes 84°47'11"E to 84°49'52"E.

Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.

Forest Area: The project involved total 503.578 ha of forest land (Notified Forest Land: 427.661 ha & Jungle Jhari Land: 75.917 ha) the details of the approval already obtained or applied for is as follows:

S. No.	Obtained Vide Letter No.	Area (ha)	Stage I/II
1	Proposal No. FP/JH/MIN/4117/2013 and obtained vide File No. 8-06/2014-FC, dated 06.04.2026	503.578 ha	Stage I
Total		503.578 ha	

As on date there is no broken forest area. Further, 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/ tiger corridor/ elephant corridor etc. Based on the indirect evidences (IND Indirect Evidence) 5 Schedule I species viz. 2 mammals -Asian Elephant (*Elephas maximus indicus*) & Sloth Bear (*Melursus ursinus*) and 3 birds Shikra (*Accipiter badius*), Black Kite (*Milvus migrans*), Black Shoulder Kite (*Elanus axillaris*) were recorded in the study area during field survey; as per (IWPA) Indian Wildlife Protection Act, 1972. A Site-Specific Wildlife Management Plan has been prepared and duly approved by the Office of the Principal Chief Conservator of Forests (Wildlife) and Chief Wildlife Warden, Jharkhand, vide Office Order No. 50 dated 24.10.2025. A budget of Rs. 36.20 crore has been earmarked for implementation of conservation activities in the project area and its surrounding zones, to be executed by the Latehar Forest Division.

Mine Lease details: Chakla coal mine was earlier allocated to M/s. Essar Power Ltd. in Feb., 2007 for their captive consumption. After de-allocation of Coal block by Hon'ble Supreme Court in 2014, the coal block was auctioned in the

11th Tranche of Coal Block auction (1st Tranche for Commercial Mining) Coal Block Auctions. Thereafter, M/s. Hindalco Industries Ltd. was declared as successful bidder for the said Coal Block. The vesting order was issued in the name of M/s. Hindalco Industries Ltd. vide order no NA-104/9/2020NA dated 03.03.2021. Mine lease will be valid for 30 years from the date of Mining Lease execution.

Other sensitive receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	Village	Distance	Direction
	Chakla	Within the lease area	
	Barwatoli	~1.30 km	NW
	Mahuatanr	~2.00 km	NE
	Chitarpur	~2.00 km	NW
	Dhadhu	~2.10 km	NE
	Chatro	~2.80 km	SW
	Nagar	~3.40 km	SW
	Bhaisadon	~3.60 km	NW
	Ambadohar	~3.70 km	SW
	Marmar	~3.70 km	SE
	Ardhe	~4.20 km	SW
	Mahuamilan	~4.40 km	SW
	Murgaon	~4.55 km	NW
	Hempur	~4.60 km	NW
Bishunpur	~5.00 km	NE	
ii. School	School Name	Distance	Direction
	Sunrise Public School Chakla	Within the lease area	
	UPG MS Chakla	Within the lease area	
	UPG PS Arariya Tar	Within the lease area	
	PS Ambatar	~0.80 km	SW
	UPG PS Khartiya	~1.70 km	NE
	UPG PS Lohsigna	~2.10 km	SW
	Srisri Ugratara Hs Nagar	~2.50 km	SW
	UPG MS Chitarpur	~2.50 km	NW
	UPG PS Tupi	~2.50 km	SW
	P.S. Teliyadamar	~2.70 km	NE
	PS Kusumtola	~3.10 km	SW
	UPG PS Chatro	~3.60 km	SW
	GOVT MS Bhaisadon	~3.70 km	NW
	UPG MS Mahuamilan	~4.50 km	SW
	PS Jamira	~4.50 km	SW
UPG PS Dubi	~4.60 km	SW	
iii. River/ Waterbody	River/ Nallah	Distance	Direction
	Mahalania Nallah	Core Zone	-
	Haharo Nadi (HFL: 493.79m RL)	~0.5 km	NE
	Rahera Nadi (HFL: 464.79 mRL)	~2.5 km	NNE
	Kamta Nadi (HFL: 487.79	~5.5 km	WSW

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	mRL)		
	Sopli Nadi (HFL: 451.79 mRL)	~5.5 km	SSE
	Bolhariya Nala	~3.5 km	SE
	Bandgarha Nala	~3.0 km	SE
	Damodar & Deonad River (HFL: 448.79 mRL)	~4.0 km	SSE
iv. Forest	Reserved/Protected Forest	Distance	Direction
	Marmar PF	~1.5 km	SE
	Malhan PF	~5.0 km	SSE
	Santi PF	~5.0 km	ESE
	Torisot PF	~4.5 km	ESE
	Mahuatanr PF	~1.5 km	East
	Balbal PF	~2.5 km	NE
	Bishunpur PF	~3.5 km	NE
	Balbal PF	~2.5 km	ENE
	Protected Forest	~3.0 km	NNE
	Piprahi PF	~3.5 km	NNE
	Chakla PF	~0.75 km	NNW
	Semarsot PF	~5.0 km	NNW
	Nagar PF	~2.0 km	WNW
	Nidra PF	~4.5 km	WNW
	Erud PF	~5.0 km	NW
	Protected Forest	~4.0 km	WSW
	Protected Forest	~0.75 km	WSW
	Protected Forest	~ Adjacent	WSW
	Protected Forest	~ Adjacent	West
Mahuamilan PF	~3.5 km	SSW	
Deonadiya PF	~3.5 km	South	
Chakla Protected Forest	within Lease Area		
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	Hospitals:		
	Health Center Name	Distance	Direction
	Primary Health Centre, Chakla	Within ML	
	Sub Health Center, Malhan	~3.30 km	SW
	Sub Health Centre, Belanga	~4.90 km	SW
	Health Sub centre, Nagar	~5.0 km	SW
	Nearby industries:		
	Name of the Industry	Type of Industry	Approx. Distance & direction from Mine site
	Abhijeet Group Power Plant	Thermal Power Plant	Adjacent in NW Direction
	Essar Power Plant	Thermal Power Plant	~3.0 km in SW

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
			Direction

Diversions Proposed: NOC to Divert the flow of Mahalania Nala passing through the Chakla Coal block has been received from Water Resources Dept., Govt. of Jharkhand vide letter no. 3/PMC/Vivid/441/2021180 on 28.04.2025. Length of Nallah diversion is 1.98 km.

Mitigation measures proposed for the sensitive receptors:

i. Habitation: Habitation of village Chakla, Hariyatoli & Amwatanr fall within the lease area. Habitation of 2 villages i.e. Hariyatoli & Amwatanr and also a part of the Chakla village which falls within the project area will be shifted as per the R&R Policy and Regulations.

ii. Nallah: Mahalania Nallah runs from North to South of lease area and exits the Chakla Coal Mine from SW to meet its natural course. NOC to Divert the flow of Mahalania Nala passing through the Chakla Coal block has been received from Water Resources Dept., Govt. of Jharkhand vide letter no. 3/PMC/Vivid/441/2021180 on 28.04.2025. Length of Nallah diversion is 1.98 km.

iii. Ponds: 5 nos of ponds are falling in the ML area and 04 nos. will come under mining and 5th pond will be preserved & adopted by HIL.

iv. Road: A road passing through the lease area connecting village Chakla to village Ambutanr is not proposed to be disturbed at any stage of mining.

v. Old Quarries: Old abandoned Clay quarries (Brick Kilns) are noticed in area which are present before the allocation of Chakla Coal mine to HIL.

vi. However, during mining precautionary and mitigative measures will be adopted which are as follows:

- Coal extraction shall be undertaken using surface miners, while the overburden removal operations will involve controlled blasting techniques to ensure safety and to minimize vibration and environmental impacts.
- Dust arrester and wet drilling arrangement will be provided with drills.
- Wet drilling with sharp drill bits is proposed to prevent dust from being air borne.
- During the initial years of mine operation, coal extracted from the pit shall be transported to the surface using dumpers operating on mine haul roads with adequate dust suppression arrangements.
- During the initial four years of mining operation, coal dispatch shall follow a road cum rail transportation mode. In this phase, the extracted coal shall be transported by road over a distance of approximately 2.2 km to the existing Biratoli Railway Station, from where it will be transported further to Hindalco's end use plants or third party customers through railway wagons.
- From the sixth year onwards, coal transportation from the pit to the surface shall be carried out predominantly through a mechanized conveyor system. The in pit conveyor will transport coal either directly to the silo system for subsequent railway wagon loading or to designated surface coal stockyards, depending on operational requirements. This transition from dumper based transport to conveyor based transport will help in improving operational efficiency, reducing fuel consumption, minimizing vehicular movement, and lowering environmental impacts such as dust and emissions.
- Hindalco Industries Limited is planning to develop a dedicated railway siding within the Chakla Coal Block project area to facilitate bulk transportation of coal in an efficient and environmentally sustainable manner. The primary mode of coal dispatch from the mine is proposed to be through railway transportation. Maximum transportation of the coal from mine to end use plant will be through Railway Siding, however, this being a commercial coal block transportation of coal using tippers through road cannot be ruled out.
- The Detailed Project Report (DPR) for the proposed railway siding at the Chakla Coal Block was submitted to the Railway authorities on 27.05.2022. The DPR has been examined and duly approved by the East Central Railway, Dhanbad Division, vide approval dated 17.01.2023.
- Real time monitoring of environmental quality parameters through (CAAQMS 04 nos), will be installed & connected to

SPCB/ CPCB server.

- Waste generated from the domestic use will be treated in STP and the treated water will be utilized in plantation & greenbelt development which results in zero discharge.
- Waste water from the HEMM washing/ workshop will be treated in ETP. After treatment, water will be reused in washing of HEMM, dust suppression and greenbelt development.
- Permanent water sprinklers, truck mounted water sprinklers and Mist Cannon Dust Suppression System (Jet Length- 80 - 100 mtr.) on the haul roads, Coal Stock yard etc. will be installed.
- Garland drains (2mX3m) of adequate size will be provided at the toe of the benches to arrest discharge and runoff with silt and sediments surging into areas adjoining the periphery of Overburden dump, which will be regularly cleaned before the onset of monsoon every year.
- Toe walls of adequate size (0.5 – 1 mt width, & 2 - 3m height) depending on the site-specific conditions will be provided for stability of the dumps where ever required. This will take care of the runoff and siltation.
- Check dams will be constructed at required locations to arrest eroded materials.
- Settling ponds will be constructed to treat mine discharge water.
- Proper profiling of working benches of pits and dumps will be done to channelize water in garland drains & sumps.
- Adequate sump & pumping capacity will be kept to cater to the monsoon season.
- HIL will explore the possibility of installation of solar power along with power backup.

7. Details of ToR:

Date of Application	Details	Date of Accord	ToR Validity
03.09.2021	Chakla Coal Block was allocated to M/s. Essar Power (Jharkhand) Ltd. The Prior Allottee submitted the application for grant of EC to MoEF&CC and ToR was issued on 15.02.2008 and EC was recommended. However, later on the block was de-allocated and on same proposal ToR Application was submitted on 03.09.2022 & ToR Letter was issued vide letter no. IA-J-11015/1072/2007-IA-II(M), dated 11.10.2021 in favor of Hindalco Industries Ltd.	11.10.2021	3 years from the date of issuance of ToR, i.e., till 10.10.2024.

8. Method of Mining and Mine Plan: The Mine Plan for Chakla Coal Mine has been approved by the Ministry of Coal, Govt. of India, New Delhi vide letter no. 13016/32/2007-CA-I dated 10.06.2008 in favor of M/s. Essar Power Ltd. As per vesting order dated 03.03.2021 the Mining Plan was also transferred in favor of M/s. Hindalco Industries Ltd.

Mine Closure Plan for Chakla Coal Mine was approved by the Coal Controller Organization, Ministry of Coal, Govt. of India vide File No. SWCS/ChaklaCoalMine/JH/LA/2021/CCO-MCBA, dated 13.12.2021 in favor of M/s. Hindalco Industries Ltd.

i. Mining will be carried out by fully Mechanized Opencast Mining method, Drilling & blasting would be limited to overburden only. Surface Miner will be used once geometry of the coal mine found suitable for its operation till that time coal excavation will be done through drilling and blasting.

ii. Total geological reserve reported in the mine lease area is 83.101 MT with 75.51 MT mineable reserve. Out of total mineable reserve of 75.51 MT, 71.14 MT are available for extraction. Percent of extraction is 85.60 %.

iii. There are total 4 workable seams, with thickness ranging from 0.48 m to 10.05 m. Grade of coal is G11, stripping ratio 1:4.46 while gradient is 1 in 10.

iv. Life of mine is 20 years (from the date of commencement of coal production).

v. At conceptual stage, total 317.41 Million CuM of waste will be generated, out of which initially upto 4 years 50.54 Million CuM will be dumped in temporary external dump. After that from 8th year onwards to 18th year same quantity of

waste (50.54 Million CuM) will be rehandled. Remaining 266.87 million CuM of waste will be used for backfilling purpose. Thus, total quantity of waste handling is about 367.95 Million CuM.

a. Dump details:

Details	Internal Dumps		External Dumps		Remarks
	Nos.	Quantity of Waste/ OB stored (m ³)	Nos.	Quantity of Waste/ OB stored (m ³)	Whether external dump is outside mine lease area
Existing	-		-		
Proposed	1	266.87 MCuM	1	50.54 MCuM	External dump is not proposed outside the ML area. It will be rehandled from 8 th year onwards to 18 th year during mine operation
Total	1	266.87 MCuM	1	50.54 MCuM	

b. Specification of each dump:

Dump No.	Area (ha)	Height (m)	Quantity m ³	Type (Internal/External)
External	114.75	60	50.54 MCuM	The OB dump is proposed within ML area. It will be rehandled from 8 th year onwards to 18 th year during mine operation.
Internal (OB Dump)	501.60	30	266.87 MCuM	

vi. Top-soil management:

a. Quantity of top-soil to be generated: 29.17 Million CuM

b. Storage of top soil: The stripped topsoil shall be temporarily stockpiled only in designated topsoil dump areas located within the mining lease, away from active excavation zones and drainage channels.

c. Handling/ Utilization of Top Soil: Out of 29.17 Million CuM, 2.85 Million CuM will be used spreading over the external dump area, 1.2 Million CuM over embankment & greenbelt area 25.12 Million CuM will be spread over the backfilled area.

d. Number of top-soil dumps: No soil dumps are proposed in block area at conceptual stage.

vii. Details of land use pattern:

A. Pre – mining land use pattern:

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total (ha)
1.	Agricultural Land	212.243	-	212.243
2.	Forest Land	503.578	-	503.578
3.	Waste Land	-	-	-
4.	Grazing Land	-	-	-
5.	Surface Water Bodies	6.06	-	6.06
6.	Settlements	31.46	-	31.46
7.	Other (Road, Barren, Other Use)	109.659	-	109.659
Total		863.0		863.0

B. Post – mining land use pattern:

S. No.	Type	Total Area	Reclaimed Area	Un-claimed Area
1.	Excavation/ Quarry Area	526.60	526.60	-
	(a) Backfilled Areas	501.60	501.60	-
	(b) Excavated Void	25.0	-	25.0
2.	External Dump	-	-	-
3.	Safety Zone (Greenbelt)	61.85	61.85	-
4.	Road and Infrastructure	79.52	-	79.52

S. No.	Type	Total Area	Reclaimed Area	Un-claimed Area
5.	Garland Drains	-	-	-
6.	Embankment	-	-	-
7.	Others (Non-Mineralized zone)	114.75	114.75	-
8.	Nallah Diversion	3.78	-	3.78
9.	Undisturbed area	76.50	-	76.50
Total		863.0	678.20	184.80

viii. Details of transportation

- **In-pit to surface:** In the initial years of start of production, coal from pit to surface will be transported through 40 T dumpers via Haul Road. Coal from pit will be transported to surface through conveying system which will either directly feed in the silo for rail loading or will discharge the coal in surface coal stocks from the year 2029 onwards.
- **Surface to siding:** Until the construction of the dedicated railway siding, coal will be transported through a temporary road-cum-rail arrangement during the initial four years of operation. The mined coal will be transported over a short distance of 2.2 km to Biratoli Railway Station and thereafter dispatched to end users by rail. The connecting road will be developed by the Project Proponent in the first year of the project solely for this interim purpose. Road transportation is limited, temporary, and restricted to the 2.2 km stretch.
- **Siding to loading:** Through Silo
- **Proposed changes in transportation means, if any:** No

ix. Details of reclamation: Afforestation shall be done progressively covering an area of 678.20 ha at the end of mining. Plantation will be carried out on 678.20 ha (Greenbelt along block boundary: 61.85 ha, Plantation on Non-Mineralized Area: 114.75 ha, Plantation over backfilled Area: 501.6 ha). Density of plantation will be 2500/ trees per ha. A void of 25 ha will be converted into waterbody with a depth of 30 m, by the end of the mine life

9. **Baseline Data:** Details of the Fresh baseline data collected during March to May 2025 is as below:

S. No.	Parameter	Description
	Period	Winter Season (Dec., 2025 to Feb., 2026)
1	AAQ parameters at 12 Locations (min and max)	<p align="center">Of both core zone and buffer zone</p> <p>For Core Zone PM10: 62.5 to 82.9 g/m³ PM2.5: 30.2 to 43.7 g/m³ NO₂: 14.0 to 25.4 g/m³ SO₂: 5.9 to 13.2 g/m³</p> <p>For Buffer Zone PM₁₀: 58.1 to 88.4 g/m³ PM_{2.5}: 28.7 to 52.3 g/m³ NO₂: 12.0 to 40.5 g/m³</p>
2	Ground water quality at 13 Locations	<p>Core Zone pH - 7.20 to 7.28 Total Hardness – 148.4 to 160.4 mg/l Alkalinity - 107.8 to 121.9 mg/l TDS – 230.0 to 240.0 mg/l Chloride – 36.3 to 39.5 mg/l Sulphates – 21.4 to 26.1 mg/l Nitrates – 6.22 to 6.86 mg/l Calcium – 40.8 to 45.5 mg/l Magnesium – 11.3 to 11.4 mg/l Iron - 0.16 to 0.19 mg/l Fluoride - 0.43 to 0.51 mg/l</p> <p>Buffer Zone pH - 7.09 to 7.59 Total Hardness – 112.9 to 238.5 mg/l Alkalinity - 108.4 to 186.2 mg/l</p>

S. No.	Parameter	Description
		TDS – 218.0 to 379.0 mg/l Chloride – 30.5 to 65.4 mg/l Sulphates – 15.1 to 50.3 mg/l Nitrates – 2.98 to 9.4 mg/l Calcium – 25.4 to 68.1 mg/l Magnesium – 5.96 to 17.83 mg/l Iron - 0.09 to 0.23 mg/l Fluoride - 0.24 to 0.64 mg/l
3	Surface water quality at 03 Locations	pH - 7.06 to 7.38 Total hardness- 32.2 to 75.4 mg/l Total dissolved solids - 75.0 to 182.0 mg/l Alkalinity - 26.4 to 74.9mg/l Fluoride- 0.21 to 0.89 mg/l Conductivity – 120.0 to 280.0 µ/cm COD – 5 to 19 mg/l BOD – 1.2 to 4.2 mg/l DO- 7.0 to 7.5 mg/l
4	Noise levels Leq (Day and Night) at 12 Locations	For Core Zone: During day time – 51.6 to 53.4 Leq. dB (A) During night time – 40.8 to 42.1 Leq. dB (A) For Buffer Zone: During day time – 50.7 to 53.8 Leq. dB (A) During night time – 39.7 to 42.3 Leq. dB (A)
5	Traffic Assessment Study Findings	During the initial years of mine operation, coal extracted from the pit shall be transported to the surface using 40 T dumpers operating on mine haul roads with adequate dust suppression arrangements. Between the fifth and sixth year of operation , the mine geometry will become technically conducive for the installation of an in-pit conveyor system. Based on mine planning and techno-economic feasibility, deployment of the conveying system is proposed during this period. From the sixth year onwards , coal transportation from the pit to the surface shall be carried out predominantly through a mechanized conveyor system. The in-pit conveyor will transport coal either directly to the silos system for subsequent railway wagon loading or to designated surface coal stockyards , depending on operational requirements. This transition from dumper-based transport to conveyor-based transport will help in improving operational efficiency, reducing fuel consumption, minimizing vehicular movement, and lowering environmental impacts such as dust and emissions. Hindalco Industries Limited is planning to develop a dedicated railway siding within the Chakla Coal Block project area to facilitate bulk transportation of coal in an efficient and environmentally sustainable manner. The primary mode of coal dispatch from the mine is proposed to be through railway transportation. Maximum transportation of the coal from mine to end use plant will be through Railway Siding, however, this being a commercial coal block transportation of coal using tippers through road cannot be ruled out. Until the construction of the dedicated railway siding, coal will be transported through a temporary road-cum-rail arrangement during the initial four years of operation. The mined coal will be transported over a short distance of 2.2 km to Biratoli Railway Station and thereafter dispatched to end users by rail. The connecting road will be developed by the Project Proponent in the first year of the project solely for this interim purpose. Road transportation is limited, temporary, and restricted to the 2.2 km stretch. A detailed traffic assessment has not been carried out.
6	Flora and Fauna	Based on the indirect evidences (IND Indirect Evidence) 5 Schedule I species viz. 2 mammals - Asian Elephant (<i>Elephas maximus indicus</i>) & Sloth Bear (<i>Melursus ursinus</i>) and 3 birds Shikra (<i>Accipiter badius</i>), Black Kite (<i>Milvus migrans</i>), Black Shoulder Kite (<i>Elanus axillaris</i>) were

S. No.	Parameter	Description
		recorded in the study area during field survey; as per (IWPA) Indian Wildlife Protection Act, 1972. A Site-Specific Wildlife Management Plan has been prepared and duly approved by the Office of the Principal Chief Conservator of Forests (Wildlife) and Chief Wildlife Warden, Jharkhand, vide Office Order No. 50 dated 24.10.2025. A budget of 36.20 crore has been earmarked for implementation of conservation activities in the project area and its surrounding zones, to be executed by the Latehar Forest Division.
7	Water Requirement	Source of Water: Ground water, mine seepage & from rain water harvesting Ground Water Intersection: Ground water will be intersected. Water Requirement: 1100 NOC (For Surface Water): NA NOC (Ground Water): Permission for ground water withdrawal & intersection has been obtained from CGWA vide NOC No. CGWA/NOC/MIN/ORIG/2022/15986 dated 14.07.2022. Renewal of CGWA NOC has been obtained vide CGWA, NOC No. CGWA/NOC/MIN/ORIG/2022/15986, dated 13.03.2024 Valid: 13.07.2026

10. Details of water requirement: Total water requirement is estimated as 1100 KLD, Industrial 950 KLD + Domestic 150 KLD) which will be sourced from ground water (30 KLD), mine seepage (439 KLD) & from rain water collected in mine sump (631 KLD). Permission for ground water withdrawal (30 KLD) & intersection (439 KLD) has been obtained from CGWA vide NOC No. CGWA/NOC/MIN/ORIG/2022/15986, dated 14.07.2022. Renewal of CGWA NOC has been obtained vide CGWA, NOC No. CGWA/NOC/MIN/ORIG/2022/15986, dated 13.03.2024, Valid till 13.07.2026.

PP also submitted that, Mahalania Nala passing through the Chakla Coal block is proposed to be diverted and NoC for the same has been obtained from Water Resources Dept., Govt. of Jharkhand vide letter no. 3/PMC/Vivid/441/2021180, dated 28.04.2025.

11. Details of power requirement and diversion of transmission line/ Hi-tension line: Total power requirement will be 3.0 MW in the First year & the peak rated capacity will be 8 MW which will be sourced from proposed 33 KV Sub Station located at project site from nearest substation at Chakla/ Chandwa of Jharkhand State Electricity Board by 33 kV Double Circuit over headline for meeting the power requirements of the projects. There is no power line proposed to be diverted.

12. Details of Solid and Hazardous Waste:

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Solid Waste (Domestic Waste)	Mine Site	15	Organic Composter and Vermi-Compost Pits.	The same will be used as manure in greenbelt- By Road
2.	Plastic Waste (Packing material)	Equipment/components/ spare parts packing	0.5	-	Through registered agencies - By Road
3.	E-waste IT equipment, electronic parts, cartridges of printer)	Laptops/Desktops/Servers/Printers/Electronics equipment.	160	-	Through registered vendors -By Road
4.	Batteries Waste (Dry Battery)	Caplamp-350, UPS-40 Machineries-12, FSV-3	83	-	Returned to OEM/ Supplier - By Road
5.	Hazardous Waste (Used Oil & Lubricants)	Machineries	45	-	Sold to the authorized CPCB recyclers through Registered Agencies - By Road
6.	C & D Waste (Workshop, pump &)	Mine Site	335	-	To be sent to authorized

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
	pipes & UG Equipment's)				recyclers/ vendors – By Road
7.	Biomedical waste (Waste sharps including metals, Contaminated Waste (Recyclable), Glassware, Anatomical Waste, Soiled Waste, Expired medicine)	First Aid Centre	-	-	Common Bio-Medical Waste Treatment Facility

13. Public Consultation/ Hearing:

Details of advertisement given	Advertisement for the public notice has been published on 29.01.2023 in Hindustan Times and on 26.01.2023 in Prabhat khabar and Hindustan. Public Notice communication to MoEF&CC was done through MS, JSPCB Ranchi, dated 21.03.2023.
Date of public consultation	Earlier, Public Hearing was conducted on 29.06.2009 Public Consultation was done vide Memo No. B-5777, Ranchi, dated 21.03.2023.
Venue	Govt. School, Village: Chakla, District: Latehar, State: Jharkhand.
Presiding Officer	Mr. Peter Barwa: Additional District Collector, Latehar Mr. Dilip Kumar, Regional Officer, JSPCB, Regional Office, Ranchi Mr. Suresh Paswan, AFE, HQ, Ranchi
Number of Person Attend Hearing	218 (During the Public Hearing held on 29.06.2009)
Number of representations received in writing from the district and outside of district, please give details	During the Public Hearing held on 29.06.2009 no representations were received. Also, no representations were received during the Public Consultation held on 21.03.2023.
Major, issues raised	Major issues raised in the public hearing: The three major concerns raised in public hearing (in 2009) were related to Environment (Air & Noise pollution, Dumping of Overburden, dust), CSR (hygienic drinking water and other facilities) R&R (resettlement plan, land cost etc.) According to written representations/issues received during the Previous Public Hearing, Action Plan & Physical Targets (Education facilities, Health Facilities, Infrastructure Development, Livelihood Enhancement & Environment Conservation etc.) has been prepared and incorporated in EIA/EMP Report.

Proposed Physical Targets for Addressing Issues of Public Hearing as per MoEF&CC, OM Dated 30.09.2020 & 20.10.2020:

Enclosed at **Annexure-A**

14. EMP Budget and the Project Cost: The capital cost of the proposed project is Rs. 140800 Lakhs and the capital cost for environmental protection measures is proposed as Rs. 3254.72 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 238.89 Lakhs/ annum. The employment generation from the proposed project/ expansion is (Direct: 150, Indirect Employment: 1500). The details of cost for environmental protection measures are as follows:

S. No.	Particular	Nos.	Capital Cost (Rs. In Lakh)		Annual Recurring Cost (Rs. In Lakh)	
			Budget Proposed during 46 th EAC Meeting dated 26.06.2023	Revised Proposed Budget in April, 2026	Budget Proposed during 46 th EAC meeting dated 26.06.2023	Revised Proposed Budget in April, 2026
I	POLLUTION CONTROL					
a	Water tankers & sprinklers	03 nos of 25 m ³ & approx. 2 km length fixed type water sprinklers	150	180	15	18
b	Dust suppression/extraction and ventilation and fire fighting	Bag filters/ Stack/ Opacity meter/ enclosure of Conveyor belt	50	60	5	6
c	Effluent treatment plant (50 m ³ /day)	1	50	60	5	6
d	Sewage treatment plant (75 m ³ /day)	1	25	30	2	3
e	Settling ponds	5	70	84	5	8
f	Garland drain and storm water drainage	4 KM	50	60	5	6
g	Gabion Wall at the toe of OB dump	5 KM	75	90	8	9
h	RO Plant & Water Flow Meters	1 & 7 Nos	20	24	2	2
i	Mist Cannon Dust Suppression System	01 Nos	30	36	3	4
	Sub-total		520	624	50	62
II	POLLUTION MONITORING Field instruments and monitoring & laboratory equipment's etc.		365	438	15	44
	Sub-total		365	438	15	44
III	OCCUPATIONAL HEALTH & SAFETY					
a	Portable fire-fighting equipment	10	5	6	0.5	0.6
b	Fire extinguishers	200	5	6	0.5	0.6
c	Mobile firefighting equipment/ Fire tender	1	35	42	3.5	4
d	Personal protective gears	700	10	12	0.4	1
e	Health monitoring equipment		10	12	1	1
	Sub-total		65	78	5.9	7
IV	GREENBELT/ PLANTATION					
a	Greenbelt along ML boundary	61.85 ha	185.55	222.66	18.55	22.26
b	Biological reclamation of mined out area	501.6 ha	963.06	1155.67	50	58
c	Plantation on un-worked area	114.75 ha	220.32	264.38	22.03	26.43
d	Piping		10	12	0.2	1.2
	Sub-total		1378.93	1654.71	90.78	107.89
V	OTHERS (Specify)					
a	Indigenous People's development programme		50	60	7	9
b	Miscellaneous cost like Scientific Studies, rain water harvesting, Env data generation etc.					
	Sub-total		50	60	7	9
	TOTAL (I+II+III+IV+V)		2378.93	2854.72	168.68	229.89
V	Additional Proposed					
1	Saplings will be planted along the entire length of the 10 km road side	50,000 entire lengths of the 10 km road side	-	100 Lakh	-	2.0 Lakh

S. No.	Particular	Nos.	Capital Cost (Rs. In Lakh)		Annual Recurring Cost (Rs. In Lakh)	
			Budget Proposed during 46 th EAC Meeting dated 26.06.2023	Revised Proposed Budget in April, 2026	Budget Proposed during 46 th EAC meeting dated 26.06.2023	Revised Proposed Budget in April, 2026
	after taking due approval from concern authority	area @200 per sapling				
2	Saplings will be planted in available open space in the nearby Villages of the study area	50,000 in available open space in the nearby Villages of the study area @200 per sapling	-	100 Lakh	-	2.0 Lakh
3	Miyawaki Plantation in the greenbelt area of 10 ha	Miyawaki Plantation on 10 ha area of greenbelt	-	200 Lakh	-	5.0 Lakh
GRAND TOTAL (I+II+III+IV+V)			2378.93	3254.72	168.68	238.89 Lakh

15. Plantation: Greenbelt will be developed along the 7.5 m wide Mine periphery covering an area of 61.85 ha. Plantation on backfilled area will be 501.6 ha. Plantation on non-mineralized area will be 114.75 ha. Thus, total greenbelt/plantation will be developed covering an area of 678.20 ha. Approximately 11,40,785 saplings will be planted @ 1600 to 2500 per ha. Plantation will be carried out on 678.20 ha (Greenbelt along block boundary: 61.85 ha @ 2500 saplings, Plantation on Non-Mineralized Area: 114.75 ha @1600 saplings, Plantation over backfilled Area: 501.6 ha @1600 saplings). Rs. 8.16 crore and 0.31 crore per annum recurring cost have been earmarked for greenbelt & plantation till the end of life of mine @ Rs 120/sapling. Native species will be planted as per the Forest Department, Jharkhand.

16. Rehabilitation & Resettlement: The project involves 537 PAFs & 265 PDFs. The compensation package for land loosing families of Chakla Coal Block Project area has been prepared in consonance with the (Jharkhand Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules 2015) JRRP, 2015 and RFCTLARR 2013. Detailed SIA was done by Asian Institute for Sustainable Development (AISD) Srinivas, Shiv Bhavan Lane, Morabadi, Ranchi: 834008, Jharkhand and the report was submitted to Govt. of Jharkhand Office of Deputy Commissioner, District Latehar (District Land Acquisition Department) on December 2022.

17. Details of pending litigations: There are no legal issue/ violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Forest Conservation Act, Wildlife Protection Act, CRZ Notification, MMDR Act, Factories Act. Further, there is no court case on the project.

18. Written Submissions: PP submitted the following details during the meeting:

Point No. 1	Detailed Plan for Solar Energy with budgetary Provision.	Proposed 6 MWp Solar Power Plant installation at Chakla Coal Mine
		<p>A 6 MWp solar power plant is proposed to support sustainable energy requirements at Chakla Coal Mine. The project will require approximately 25 acres of land located adjacent to the mining block boundary, with grid connectivity planned at 33 kV Nagar Substation through a 5 km transmission line.</p> <p>The proposed system will operate as a hybrid micro-grid, integrating Solar Power, Battery Energy Storage System (BESS), DG and Grid supply, with a primary focus on maximizing renewable energy utilization.</p> <p>Recommended Capacity:</p> <ul style="list-style-type: none"> Solar Power: 6 MWp (3.9 MW AC)

		<ul style="list-style-type: none"> • BESS: 2 MW / 2.2 MWh <p>Budgetary Provision:</p> <ul style="list-style-type: none"> • Solar power cost (Power Purchase Agreement): 3.79/kWh • Grid power cost: 5.85/kWh • BESS Capex: 2.8 Cr • Total cost (Solar + BESS): 6.46/kWh • BESS lifecycle: 20 years • Weighted Average Cost of capital (WACC): 11% <p>Power Utilization: The generated power will be utilized for:</p> <ul style="list-style-type: none"> • Project office • Utility and service areas • Mine and surrounding area lighting • Dewatering activities • Nearby schools and community hall to support local infrastructure <p>The above estimates are indicative and may increase during detailed execution.</p>
Point No. 2	Project Proponent should submit PERT/CPM chart regarding implementation of in-pit conveyor belt and for the Railway siding.	PERT/CPM chart regarding implementation of in-pit conveyor belt and for the Railway siding has been submitted.

Observation and deliberation of the EAC:

19. Committee after deliberations noted the following:

i. The instant project is for grant of Environment Clearance to M/s Hindalco Industries Limited for Chakla Opencast Coal Mine (North Karanpura Coalfield) having the production capacity of 4.5 MTPA, within the ML area 863 ha, located at Villages: Chakla, Hariyatoli, Nawatoli, Amwatanr & Ambuatanr; Tehsil: Chandwa; District: Latehar, State: Jharkhand.

ii. The instant project was earlier apprised in 43rd EAC Meeting held on 24.04.2023 and 46th EAC Meeting held on 26-27th June 2023. The same was recommended by the EAC in the 46th meeting, subject to submission of Stage – I forestry clearance, in accordance with the provisions of the Ministry’s OM dated 09.09.2011 and its subsequent amendments.

iii. PP submitted the Stage – I forestry clearance letter on 15.04.2026, which is beyond the time period of 18 months. Hence, the proposal was referred back to the EAC as per Ministry’s OM dated 19.06.2014 and was placed in the 43rd EAC Meeting held on 28-29th April 2026. Wherein, the proposal was deferred for want of certain other additional information. PP submitted the required additional information vide ADS reply dated 12.05.2026.

iv. The Committee opined to reiterate the recommendations of 46th EAC Meeting held on 26-27th June 2023 in terms of the provision contained under the O.M. dated 19.06.2014 with updation of timeline in the recommendations wherever prescribed.

v. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment

Recommendations of the Committee:

20. Based on the discussions held and the documents submitted, the EAC reiterated its recommendations of its meeting held on 29/08/2023 and **recommended** the instant proposal for grant of Environment Clearance for the “*Chakla Opencast Coal Mine (North Karanpura Coalfield) (having production capacity of 4.5 MTPA within the ML area of 863 ha), by M/s Hindalco Industries Limited, located at Villages: Chakla, Hariyatoli, Nawatoli, Amwatanr & Ambuatanr; Tehsil: Chandwa; District: Latehar, State: Jharkhand*” under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions in addition to the general/Standard EC conditions (**Annexure-I**).

21. 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 Hindalco Industries Limited** for “*Chakla Opencast Coal Mine (North Karanpura Coalfield) (having production capacity of 4.5 MTPA within the ML area of 863 ha), located at Villages: Chakla, Hariyatoli, Nawatoli, Amwatanr & Ambuatanr; Tehsil: Chandwa; District: Latehar, State: Jharkhand*” subject to compliance of the Specific Environmental safeguard Conditions in addition to the standard EC conditions (**Annexure-I**).

22. 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.

23. 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.

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

25. 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.

26. 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.

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

Yours faithfully,
(Sundar Ramanathan)
Scientist 'F'
Tel: 011- 20819378
Email- r.sundar@nic.in

Copy To

1. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in
2. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in
3. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
4. The District Collector, DC Office, Dc Office 1st Floor Collectorate Building Latehar, Latehar, Jharkhand, dc-lat@nic.in
5. The Deputy Director General, Regional Office, Deputy Director General Of Forests (C) Ministry Of Environment Forest And Climate Change Regional Office 2nd Floor Headquarters- Jharkhand State Housing Board Harmu Chowk Ranchi Jharkhand - 834002 Ranchi, Latehar, Jharkhand, ro.ranchi-mef@gov.in
6. The Member Secretary, SPCB/PCC, T.A. Building Hec P.O. Dhurwa, Ranchi, Jharkhand, jspcb@jharkhandmail.gov.in
7. The Secretary, Ministry of Coal, Shashtri Bhawan New Delhi., New Delhi, Delhi, secy.moc@nic.in

Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Specific Conditions

S. No	EC Conditions
1.1	Project proponent shall not carry out the mining activities in the 503.578 ha, without obtaining stage – II forest clearance on the same. The Project Proponent shall clearly demarcate the forest land using closely spaced bamboo pillars/ fencing to prevent any mining or allied activities within the forest land prior to obtaining Stage-II Forest Clearance.
1.2	Project proponent shall obtain environmental safeguards from JSPCB within 30 days from the date of grant of environmental clearance as per OM dated 14.01.2025. Compliance in this regard shall be submitted to the Ministry and Regional Office of MoEF&CC.
1.3	PP shall divert the Mahalania Nallah in a manner that its construction for diversion shall be covered in one go without extended period and works plan shall be designed to complete the diversion avoiding Monsoon season (ie effective working months of non-monsoon season). Embankment height shall be maintained on both side of stream with sufficient free board upto 3 mts from its HFL.
1.4	PP shall maintain 50 mts width of embankment all along the diverted stream/nallah (Mahalania) and conduct dense plantation with fruit bearing native species by itself.
1.5	The diversion of Mahalania Nallah shall be monitored by RO and complete report with the drone video and satellite imagery shall be submitted to RO, MOEF&CC.

S. No	EC Conditions
1.6	PP shall install dedicated inpit conveyor belt with silo loading system till railway siding for transportation of 90% of extracted coal through rail and only 10% by road within three years (i.e. May, 2029).
1.7	PP shall deploy the truck size of upto 40 tonnes (payload) for transportation of coal by road. Transportation of coal shall be done in covered trucks only till May, 2029.
1.8	As proposed dedicated concrete Road of ~2.0 km length and 12 mt width, away from the villages and sensitive location like school and hospitals shall be constructed to transport the coal prior to the start of the coal transportation. Further, 10 mts width of tree plantation shall be conducted to mitigate the vehicular and dust emission on both side of road.
1.9	The PP shall not divert the Nagarnadiya Nadi S1. Tributary S2, Tributary S4, tributary no. 6 of Mahalanianallah located towards south.
1.10	The mining plan shall be revised/amended at later stage after incorporating the diversion of Nallah in one-go with year-wise coal production.
1.11	The budget proposed for further PH action plan implementation for the next three years is Rs. 1422.12 lakhs. The budget proposed 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 the committed. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report. PP shall strengthen the existing Government Primary Health Centre (PHC) & Community Health Centre (CHC) in the study area for better public health.
1.12	PP shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 3254.72 Lakhs and Rs 238.89 Lakhs/ Annum (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.
1.13	PP needs to carry out the regular desilting operation in order to maintain continuous flow of water in diverted channel including the point "G" of the proposed channel segment before discharging into tributary of Damodar River.
1.14	PP shall monitor regularly water levels in open dug wells located in village and by establishing Piezometer to ascertain the impact of mining over ground water table and to plan mitigative measures to recharge the area.
1.15	Main haul road in the mine shall be provided with permanent water sprinklers, and other roads shall be regularly wetted with water tankers fitted with sprinklers. Also PP shall install Mist Cannon Dust Suppression Systems (80-100 mtrs.) at Coal Stock Yard to suppress the dust particles.
1.16	Garland drains (2mX3m) of adequate size shall be provided at the toe of the benches to arrest discharge and runoff with silt and sediments surging into areas adjoining the periphery of Overburden dump, which will be regularly cleaned before the onset of monsoon every year.
1.17	Check dams shall be constructed at required locations within drains to arrest eroded materials and settling ponds shall be constructed to treat mine discharge water inside the mine block.

S. No	EC Conditions
1.18	As proposed 5 water harvesting pond shall be created separately to recharging the ground water and usage of project affected families.
1.19	Proper profiling of working benches of pits and dumps shall be done to channelize water in garland drains & sumps.
1.20	Waste generated from the domestic use shall be treated in STP and the treated water will be utilized in plantation & greenbelt development. Wastewater from the HEMM washing/workshop will be treated in ETP. After treatment, water will be reused in washing of HEMM, dust suppression and greenbelt development.
1.21	Dumping of OB shall move away from Chakla village and distance of about 200 mts shall be kept and additional Greenbelt development/plantation (atleast 8 to 10 ft trees) shall be carried out at the periphery of the mine lease area as well as in the adjacent area Chakla village.
1.22	PP shall limit the activities of mining in its mine lease area only. No OB Dumping and infrastructure activity should be proposed and dumped on forest land. Accordingly revised Mine Plan should be submitted (if required) and submitted to Ministry.
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 explore the feasibility to deploy atleast 20% of overall fleet of dumpers/trucks as electrical or CNG/LNG based dumpers/trucks for transportation of coal/OB etc.
1.25	All the recommendation of hydrogeology study conducted by WAPCOS shall be complied during the mining operation and status shall be submitted to Ministry's RO.
1.26	As proposed during the meeting, PP shall reduce the carbon footprint after sequestration of CO ₂ and 16,90,500 Kg/year, 39,00,225 Kg/year, 53,96,160 Kg/year and 1,02,39,600 Kg/year of CO ₂ to be sequestered in the 5th, 10th, 15th & 20th year of mining respectively. RO will review the progress of CO ₂ sequestration. The process of sequestration of CO ₂ will include the planting trees, by "Developing carbon capture and storage (CCS) technologies" and implementation of renewable energy. Further, PP shall carry out enough plantation to ensure carbon sequestration lost due to deforestation and other fossil fuel based activities.
1.27	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 RO within 3 months. A logbook to be maintained by PP on "Public Grievance Redressal and Monitoring System.
1.28	PP shall install fixed fog cannon (mist spayer) and fixed sprinkler all along the haul road/CHP, and OB dump till Railway siding is completed. The sufficient number of fog cannons (not less than 10 nos.) with 40 mts jet length shall be installed within 6 months. It should be ensured that air pollution level confirm to the standards prescribed by the MOEFCC/CPCB.

S. No	EC Conditions
1.29	PP shall deposit the approved amount as proposed for wildlife conservation plan to the Govt. of Jharkhand, Forest & Environment Dept. and further consult with State Biodiversity Authority for its CSR activity.
1.30	PP shall construct new multispecialty (50 beds) hospital in the 10 km of the project area within 5 years for local people out of approved budget. The project affected families shall be given free medical facility. This shall be done in consultation of DM of the district.
1.31	PP shall conduct third party audit of compliance of EC condition at an interval of one year and its report shall be submitted to RO, MoEF&CC.
1.32	The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and RO.
1.33	PP to maintain the topped haul road properly to minimized the dust emission. PP to also develop pucca roads by seeking consent from the panchayat with widening of roads especially roads inter linking the villages within the study area of 10 km radius buffer zone.
1.34	PP to install solar lights along the road used for transportation of minerals to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year.
1.35	PP to provide bio toilets to the villages located within the study areas within 1 year from the grant of this EC.
1.36	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
1.37	PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms.
1.38	As the life of the mine is 20 years, PP shall distribute 25,000 mainly fruit bearing plants with incentive to the locals especially to the farmers in the study area till the life of mine.
1.39	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 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.
1.40	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 for 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.

S. No	EC Conditions
1.41	PP shall conduct feasibility studies for assessment of voids for backfilling of ash and mixing of ash with overburden, taking up backfilling ash and OB mixing activities during operations as well as post closure of mines in line with the Fly Ash Utilization Notification, 2021.
1.42	Project proponent 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 ML 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.
1.43	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 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, 2026/ 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 EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.
1.6	As per the provisions of Ministry's OM dated 18.12.2025, CTO shall be granted in respect of only those land parcels/ Khasra Numbers in the Revenue record which have been either acquired by Project Proponent or consent has been obtained from the landowners or from the concerned State Government, or their authorized agency, as the case maybe.

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 4.5 MTPA coal mining.

S. No	EC Conditions
2.2	4 nos. of continuous ambient air quality monitoring stations shall be established in the core zone (2 nos) as well as in the buffer zone (2 nos) 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. Water Quality Monitoring And Mitigation Measures

S. No	EC Conditions
3.1	PP shall take approval from the CGWA/ Competent Authority prior to commencement of mining operations.
3.2	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.
3.3	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-20012/1/2006-1A.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.
3.4	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.

S. No	EC Conditions
3.5	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.
3.6	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.
3.7	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.

4. Noise And Vibration Monitoring And Prevention

S. No	EC Conditions
4.1	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.
4.2	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.

5. Mining Plan

S. No	EC Conditions
5.1	Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
5.2	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
5.3	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).
5.4	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).
5.5	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

6. Land Recalvation

S. No	EC Conditions
6.1	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 (MoEF&CC) from time to time shall be submitted to the Regional Office of MoEF&CC.
6.2	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.
6.3	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.
6.4	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 stabilized 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.
6.5	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, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.

7. Public Hearing And Human Health Issues

S. No	EC Conditions
7.1	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
7.2	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.
7.3	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

S. No	EC Conditions
	aspects.
7.4	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.
7.5	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.
7.6	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'.

8. Corporate Environment Responsibility

S. No	EC Conditions
8.1	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.
8.2	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.

9. Miscellaneous

S. No	EC Conditions
9.1	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.
9.2	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.
9.3	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.
9.4	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.

S. No	EC Conditions
9.5	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.
9.6	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
9.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
9.8	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.
9.9	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
9.10	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.
9.11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
9.12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
9.13	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.
9.14	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.

ANNEXURE-A

Proposed Physical Targets for Addressing Issues of Public Hearing as per MoEF&CC, OM Dated 30.09.2020 & 20.10.2020

S. No.	Physical Targets	Activity	Budget Proposed for PH concerns in 46 th EAC Meeting, Dated 26.06.2023 (Rs. In Lakhs)	Revised Proposed Budget in April, 2026 (Rs. In Lakhs)
1	Education (School Infrastructure)	Buildings and Civil structures (Renovation & Maintenance)	63.6	76.32
2	Health Infrastructure	Special Project	74.0	88.8
		Buildings and Civil structures (renovation and maintenance)	18.1	21.72
		Drinking water new sources (Handpump/ RO/ Water Tank/ well)	15.40	18.48
		Drinking water existing sources (Operation/ Maintenance)	13.50	16.20
3	Sustainable Livelihood Infrastructure	Water conservation and harvesting (small structures/ bigger structure)	40.0	48.00
		Livelihood Infrastructure	205.0	246.00
4	Rural Infrastructure Development other than for the purpose of Health /Education /Livelihood	New Roads/ Culverts/Bridges/Bus Stands	47.2	56.64
		Repair Roads/Culverts/Bridges/Bus Stands	9.0	10.8
		Community Halls	66.0	79.2
		Other Community Assets	30.0	36
Sub-total (A)			581.8	698.16
Other Proposed Activities				
1	Pre-school education	Strengthening Anganwadi Centre-Govt. supported	4.8	5.76
2	School Education Program	Enrolment awareness programmes / events	2.0	2.4
		Scholarship (Merit and Need based assistance)	12.0	14.4
		School competitions /Best teacher award	3.5	4.2
		Quality of Education (support teachers, Improve education methods,)	8.5	10.2
3	Education support programs	Adult and non-formal education	12.6	15.12
		Celebration of National days / International days	4.5	5.4
		Computer education	13.0	15.6
4	Health (Preventive Health Care)	Immunization	2.4	2.88
		Pulse polio immunization	0.7	0.84
		Health & Hygiene awareness programmes	2.4	2.88
5	Curative Health Care program	General Health camps	54.0	64.8
		Specialized Health Camps	5.4	6.48
		Eye camps	2.6	3.12
		Tuberculosis	1.2	1.44
6		Adolescent Health care (for Girls)	12.5	15.00

S. No.	Physical Targets	Activity	Budget Proposed for PH concerns in 46 th EAC Meeting, Dated 26.06.2023 (Rs. In Lakhs)	Revised Proposed Budget in April, 2026 (Rs. In Lakhs)
	Reproductive and Child Health	Infant and child health (Healthy baby completion)	12.0	14.4
		Nutritional programmes for mother/child	12.0	14.4
7	Quality / Support Program	Referral services	15.0	18
		Treatment of BPL, old age or needy patient	3.0	3.6
		Support for differently abled	3.5	4.2
		Blood donation camps	0.9	1.08
		Others	10.8	12.96
8	Sustainable Livelihood	Agriculture & Horticulture training programme/ Farmers group	25.5	30.6
		Transfer of Technology- Demonstration plots	24.0	28.8
		Support for horticulture plots	2.5	3.0
		Seeds Improvement Program	7.5	9.0
		Support for improved agriculture equipment and inputs	15.0	18.0
		Soil health and organic farming	18.0	21.6
		Farm Based IGP	6.0	7.2
		Farm Based IGP	9.0	10.8
		Treatment and vaccination	2.1	2.52
9	Animal Husbandry Based	Capacity Building Program Tailoring, Beauty Parlour, Mechanical	23.3	27.96
		Rural Enterprise development & Income Generation Programmes	10.5	12.6
		Support to SHGs for entrepreneurial activities	3.0	3.6
		Non-farm Based IGP	45.0	54.0
10	Natural Resource conservation programs & Non-conventional Energy	Solar energy support	35.0	42.0
		Plantation / Greenbelt Development/Roadside Plantation	0.7	0.84
		Green Belt for Environment Protection	90.0	108.0
11	Institutional building & strengthening	Strengthening / formation of community-based organization (SHGs)	2.4	2.88
		Others- Women's Day celebration	5.0	6.0
		Support to old age/ Widow/ physically challenged person / poor	3.0	3.6
		Community awareness program	2.7	3.24
		National/International day celebrations with community	3.0	3.6
		Support with basic necessities (Blankets)	15.0	18.0
		Support to rural cultural programme, Festivals & Fairs	24.3	29.16
		Support to Rural Sports program	20.0	24.0
12	Salary and Overheads	Salary & Overhead Volunteer	11.5	13.8

S. No.	Physical Targets	Activity	Budget Proposed for PH concerns in 46 th EAC Meeting, Dated 26.06.2023 (Rs. In Lakhs)	Revised Proposed Budget in April, 2026 (Rs. In Lakhs)
Sub Total (B)			603.3	723.96
Grand Total (A+B)			1185.1 11.85 Crore	1422.12 14.22 Crore

S. No.	Physical Targets	Activity	Details of Activities	EMP budget for PH concerns (Rs. In Lakh)							
				(1st Year)		(2nd Year)		(3rd Year)		Total	
				Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Total Population (Nos)	Proposed Total Budget
1	Education (School Infrastructure)	Buildings and Civil structures (Renovation & Maintenance)	1st Year Buildings and Civil structures (Renovation & Maintenance) Chakla Middle School to convert as Model School with Kitchen Extension – 3.0 Lakhs Toilet Construction – 4.2 Lakhs Fencing – 2.4 Lakhs Lunch Varandah – 8.4 Lakhs 2nd Year Repair of Ambatand and Nagar Primary School @Rs.3,12,000/- each. Construction New Primary School for Hariya Paduwa Village @Rs.25,20,000/- 3rd Year Repair of Nagar High School, the only High School of the Gram Panchayat @Rs.4,80,000/- each. Construction New Primary School for Arandiyatand Village @Rs.25,20,000/-	430	18.0	430	28.32	500	30.0	1360	76.32
2	Health Infrastructure	Special Project	Site specific intervention- Swacchta Sandesh with Sanitary Napkin Production Unit engaging SHG women	1000	84.0	1000	2.4	1000	2.4	3000	88.8
		Buildings and Civil structures (renovation and maintenance)	1st Year Developing Community Dispensary & Telemedicine Facility with free medicines throughout the year at Chakla Khas village 2nd Year Maintaining the Community Dispensary & Telemedicine Facility with free medicines throughout the year at Chakla Khas village 3rd Year Running & Maintenance of Community Dispensary & Telemedicine Facility with free medicines throughout the year at Chakla Khas village	4000	11.36	4000	2.84	8000	7.52	16000	21.72
		Drinking water new sources (Handpump /RO/Water Tank/well)	1st Year New installation of Deep Bore-well at least 2nos @Rs.2,64,000/- each Chakla, Ambatand Villages 2nd Year New installation of Deep Bore-well at least 2nos @Rs.2,64,000/- each Hariya Paduwa & Nawatoli Villages 3rd Year New installation of Deep Bore-well at least 3nos @Rs.2,64,000/- each Chakla & Arandiyatand Villages	600	5.28	600	5.28	600	7.92	1800	18.48

S. No.	Physical Targets	Activity	Details of Activities	EMP budget for PH concerns (Rs. In Lakh)								
				(1st Year)		(2nd Year)		(3rd Year)		Total		
				Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Total Population (Nos)	Proposed Total Budget	
		Drinking water existing sources (Operation/Maintenance)	1st Year Repair of Hand Pump at least 10 Nos @Rs.24000/- each) and 05 nos of Borewell Repair @Rs.36,000/- each at Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages 2nd Year Repair of Hand Pump at least 10 Nos @Rs.24000/- each) and 05 nos of Borewell Repair @Rs.36,000/- each at Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages 3rd Year Repair of Hand Pump at least 20 Nos @Rs.24000/- each) and 05 nos of Borewell Repair @Rs.60,000/- each Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages	850	4.2	850	4.2	1700	7.8	3400	16.2	
3	Sustainable Livelihood Infrastructure	Natural Resource conservation programs & Non-conventional Energy										
		Water conservation and harvesting (small structures/bigger structure)	Maintenance and beautification of new water bodies/grass patching and plantation on bunds	300	24.0	150	12.0	150	12.0	600	48.0	
		Livelihood Infrastructure										
		Check Dams/Water sheds/Tree Plantation										
		Pond deepening work in Villages Chakla, Hariyatoli, Amwatan, Nawatoli & Ambuatant	1000	60.0	200	12.0	200	12.0	1400	84.0		
		Watershed/Area treatment/Check Dam/Gabion structure	400	24.0	400	24.0	400	24.0	1200	72.0		
		Tree Transplant/Tree Plantation	500	30.0	500	30.0	500	30.0	1500	90.0		
4	Rural Infrastructure Development other than for the purpose of Health/Education/Livelihood	New Roads/Culverts/Bridges/Bus Stands	1st Year 02 nos of CC Road covering total 1KM at Chakla and Hariya Paduwa with approx @Rs.10,20,000/- 2nd Year 02 nos of WBM (Water Bound macadam) covering total 2KM at Arandiyatand & Ambatand with approx @Rs.7,89,600/- 3rd Year 02 nos of WBM Road at Ambatand & Nawatoli with approx @Rs.10,20,000/-	2000	20.4	1500	15.84	2000	20.4	5500	56.64	
		Repair Roads/Culverts/Bridges/Bus Stands	1st Year Road repairing covering total 1KM at Chakla and Hariya Paduwa with approx @Rs.3,60,000/- 2nd Year Road repair at Chakla village with approx @Rs.3,60,000/- 3rd Year 1 no of Murrum Road with approx @Rs.3,60,000/- at Chakla	4000	3.6	4000	3.6	4000	3.6	12000	10.8	

S. No.	Physical Targets	Activity	Details of Activities	EMP budget for PH concerns (Rs. In Lakh)							
				(1st Year)		(2nd Year)		(3rd Year)		Total	
				Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Total Population (Nos)	Proposed Total Budget
		Community Halls	1st Year 1 Community Hall at Chakla @Rs.18,00,000/- 2nd Year 1 no of Women SHG Training Hall @Rs.19,20,000/- at Chakla Repair of Chakla Youth Club @Rs.4,80,000/- 3rd Year 1 Community Hall at Ambatand @Rs.18,00,000/- 1 Women SHG Training Hall at Ambatand @Rs.19,20,000/-	2500	18.0	1000	24.0	2500	37.2	6000	79.2
		Other Community Assets	1st Year New Dug Well @Rs.240000/- *5=12,00,000/- with Washing Platform and Soakpit at Chakla & Ambatand Villages 2nd Year New Dug Well @Rs.240000/- *5=12,00,000/- with Washing Platform and Soakpit at Nawatoli and Bhukutola Villages 3rd Year Dug Well @Rs.240000/*10=24,00,000/- with Washing Platform and Soakpit at Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages	1500	12.0	1500	12.0	1500	12.0	4500	36.0
SUB TOTAL (A)				19080	314.84	16130	176.48	23050	206.84	58260	698.16
Other Proposed Activities											
S. No.	Physical Targets	Activity	Details of Activities	(1st Year)		(2nd Year)		(3rd Year)		Total	
				Target Population (Nos)	Program Spending (Rs. In Lakh)	Target Population (Nos)	Program Spending (Rs. In Lakh)	Target Population (Nos)	Program Spending (Rs. In Lakh)	Target Population (Nos)	Program Spending (Rs. In Lakh)
1	Pre-school education	Strengthening Anganwadi Centre-Govt. supported	1st Year 04 nos of Anganwadi at Chakla Khas, Ambatand, Nawatoli and Arandiyatand - Infrastructure renovation and Educational Paintings @Rs.72,000/- each 2nd Year 04 nos of Anganwadi at Chakla Khas, Ambatand, Nawatoli and Arandiyatand - Education and sports stationaries @Rs.72,000/- each	110	2.88	0	0.0	110	2.88	220	5.76
2	School Education Program	Enrollment awareness programmes / events	Awareness campaign through Nukkad Natak and door to door campaign at Chakla Khas, Ambatand, Nawatoli, Arandiyatand @Rs.60,000/- each	0	0.0	0	0.0	100	2.4	100	2.4
		Scholarship (Merit and Need based assistance)	1st Year & 2nd Year To help at least 30 Girls students from Chakla Middle School and Chakla High School for Higher studies @Rs.12,000/- each 3rd Year To help at least 30 Girls students from Chakla Middle School and Chakla High School for Higher studies @Rs.24,000/- each	30	3.6	30	3.6	30	7.2	90	14.4

S. No.	Physical Targets	Activity	Details of Activities	EMP budget for PH concerns (Rs. In Lakh)							
				(1st Year)		(2nd Year)		(3rd Year)		Total	
				Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Total Population (Nos)	Proposed Total Budget
		School competitions /Best teacher award	1st Year & 2nd Year 01 Mega Inter-school sports Competition programs Including all the primary, Middle and High Schools of Chakla GP @Rs.1,20,000/- 3rd Year 01 Mega Inter-school sports Competition programs Including all the primary, Middle and High Schools of Chakla GP @Rs.1,80,000/-	750	1.2	750	1.2	750	1.8	2250	4.2
		Quality of Education (support teachers, Improve education methods,)	1st Year Establishing Mini Science Lab at Chakla Middle school @Rs.3,00,000/- and High School @Rs.5,40,000/- 2nd Year & 3rd Year Maintenance of Mini Science Lab at Chakla Middle school and High School @Rs.90,000/- PA	400	8.4	400	0.96	400	0.96	1200	10.2
3	Education support programs	Adult and non-formal education	1st Year & 2nd Year Total 8 nos of Free Coaching Centres for Primary students at Chakla Khas 4, Ambatand 1, Nawatoli 1, Arandiyatand 1 & Hariya Paduwa 1 with Monthly Parents Teachers Meeting @Rs.48,000/- each 3rd Year Total 8 nos of Free Coaching Centres for Primary students at Chakla Khas 4, Ambatand 1, Nawatoli 1, Arandiyatand 1 & Hariya Paduwa 1 with Monthly Parents Teachers Meeting @Rs.30,000/- each	250	5.76	250	5.76	250	3.6	750	15.12
		Celebration of National days / International days	At all the 5 Primary, 1 Middle and 1 High School of Chakla GP @Rs.36,000/- each	950	1.8	950	1.8	950	1.8	2850	5.4
		Computer education	1st Year & 2nd Year Computer Coaching Centre at Chakla Khas & Nawatoli @Rs.2,40,000/- each 3rd Year Computer Coaching Centre at Chakla Khas & Ambatand @Rs.3,00,000/- each	100	4.8	100	4.8	100	6.0	300	15.6
4	Health (Preventive Health Care)	Immunization	04 Camps per year @Rs.24,000/- per camp at Chakla Khas, Ambatand, Arandiyatand, Hariya Paduwa	240	0.96	240	0.96	240	0.96	720	2.88
		Pulse polio immunization	Logistic support to CHC Chandwa for Polio Iradication Drive Once in a year	2500	0.24	2500	0.24	2500	0.36	7500	0.84
		Health & Hygiene awareness programmes	1st Year & 2nd Year At least 5 session @ 18,000/- each at Chakla Khas, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli 3rd Year At least 5 session @ 21,600/- each at Chakla Khas, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli	500	0.96	500	0.96	500	1.08	1500	2.88
5	Curative Health Care program	General Health camps	MHU running 5 Days a wekk covering every tolas of Chakla Khas, Hariya Paduwa, Arandiyatand, Ambatand, Nawatoli, Nagar & Sadabah and conducting Village Health Camps with medicines @Rs.1,80,000/- PM * 12 months	5000	21.6	5000	21.6	5000	21.6	15000	64.8
		Specialized Health Camps	04 Specialized Health Camps covering Ortho, Peatrics, Gynee, Skin, ENT, etc.@ Rs.54,000/- each at Chakla Khas being the center point for all the villages.	1200	2.16	1200	2.16	1200	2.16	3600	6.48

S. No.	Physical Targets	Activity	Details of Activities	EMP budget for PH concerns (Rs. In Lakh)							
				(1st Year)		(2nd Year)		(3rd Year)		Total	
				Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Total Population (Nos)	Proposed Total Budget
		Eye camps	Catract Identification Camp @Rs.96,000/- once in a year at Chakla Khas being the center point for all the villages. This is followed by operation and spectacles distribution. each with Specs	150	0.96	150	0.96	150	1.2	450	3.12
		Tuberculosis	1st Year & 2nd Year 02 Camps @Rs.18,000/- each at Chakla and Ambatand 3rd Year 02 Camps @Rs.36,000/- each at Chakla and Ambatand	100	0.36	100	0.36	100	0.72	300	1.44
6	Reproductive and Child Health	Adolescent Health care (for Girls)	1st Year & 2nd Year On Project mode drive digitally, supply of nutritious food and medicine to approx 200 Adolescent Girls @Rs.150/- *400 Girls *12 months = 3,60,000/- Volunteers Fees @Rs.2400*12 Months=28800/- 3rd Year On Project mode drive digitally, supply of nutritious food and medicine to approx 400 Adolescent Girls @Rs.150/- *400 Girls *12 months = 7,20,000/-	200	3.84	200	3.84	400	7.2	800	15.0
		Infant and child health (Healthy baby completion)	1st Year & 2nd Year Tonics, Medicines and Food suppliments to the Babies of Hariya Paduwa, Chakla, Ambatand @Rs.200/- per baby*12 Months *150 Babies up to 2 years of age=360000/- 3rd Year 02 nos of Healthy Baby Show at Chakla @Rs.72,000/- each Tonics, Medicines and Food suppliments to the Babies of Hariya Paduwa, Chakla, Ambatand @Rs.156/- per baby*12 Months *300 Babies up to 2 years of age	150	3.6	150	3.6	600	7.2	900	14.4
		Nutritional programmes for mother/child	1st Year & 2nd Year In Chakla, Hariya Paduwa, Ambatand villages - On Project mode Mother and Child Health care combined with Nutritional Program drive digitally record keeping in the GP, supply of nutritious food and medicine to approx 200 mothers (either expecting/with baby upto 1 year) * 150/- pm each* 12 months = 3,60,000/- 3rd Year In Chakla, Hariya Paduwa, Ambatand villages - On Project mode Mother and Child Health care combined with Nutritional Program drive digitally record keeping in the GP, supply of nutritious food and medicine to approx 250 mothers (either expecting/with baby upto 1 year) * 180/- pm each* 12 months = 5,40,000/- + vountier appreciation in kind @ 2400/- * 05 vounteers *12 months = 1,44,000/- + Program Overhead cost Rs.36,000/-	200	3.6	200	3.6	500	7.2	900	14.4
7	Quality / Support Program	Referral services	This is to cater for emergency referal cases as and when require in Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages	30	6.0	30	6.0	30	6.0	90	18.0
		Treatment of BPL, old age or needy patient	This is to cater for special treatment of BPL, Oldage and Needy patients as and when require in Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages	0	0.0	0	0.0	15	3.6	15	3.6

S. No.	Physical Targets	Activity	Details of Activities	EMP budget for PH concerns (Rs. In Lakh)							
				(1st Year)		(2nd Year)		(3rd Year)		Total	
				Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Total Population (Nos)	Proposed Total Budget
		Support for differently abled	This is to cater for apparatus, calipers, wheelchairs etc. etc for Differently Abled people to support as and when require in Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages	10	2.4	0	0.0	10	1.8	20	4.2
		Blood donation camps	01 camp @Rs.36,000/- centrally at Chakla Village	100	0.36	100	0.36	100	0.36	300	1.08
		Others	To provide 2 ANM @Rs.18000/- each*12 months*2 = 4,32,000/- for Govt. Health Sub Centers at Chakla and Nagar	8000	4.32	8000	4.32	8000	4.32	24000	12.96
8	Sustainable Livelihood	Agriculture & Horticulture training programme / Farmers group	1st Year 25 on field Training programs on Agriculture / Horticulture with demo plot @Rs.40,800/- each at Chakla, Ambatand & Nawatoli 2nd Year 25 on field Training programs on Agriculture/ Horticulture with demo plot @Rs.40,800/- each at Chakla, Ambatand & Nawatoli 3rd Year 25 on field Training programs on Agriculture/ Horticulture with demo plot @Rs.40,800/- each at Chakla, Arandiyatand, Ambatand & Nawatoli	150	10.2	150	10.2	150	10.2	450	30.6
		Transfer of Technology - Demonstration plots	One Lab on 2 acres with Nursery creation on our own acquired Land at Chakla	300	9.6	300	9.6	300	9.6	900	28.8
		Support for horticulture plots	5 nos of programs with demo @ Rs.60,000/- each at Chakla, Arandiyatand, Ambatand & Nawatoli	0	0.0	0	0.0	100	3.0	100	3.0
		Seeds Improvement Program	05 nos of programs with seed distribution and demo agriculture @ Rs.60,000/- each at Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages	100	3.0	100	3.0	100	3.0	300	9.0
		Support for improved agriculture equipment and inputs	To support 50 Farmers with Agricultural Inputs @Rs.12,000/- each of Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages	1600	6.0	1600	6.0	1600	6.0	4800	18.0
		Soil health and organic farming	Nutritional home garden in covering 200 household @Rs.3,600/- each	800	7.2	800	7.2	800	7.2	2400	21.6
		Farm Based IGP	Promotion of Farm based Livelihood Azolla farming/ Vermi compost unit/Mushroom	100	2.4	100	2.4	100	2.4	300	7.2
		Farm Based IGP	Promotion of Off Farm based - Duck rearing/ Poultry Unit/Bee Keeping	100	3.6	100	3.6	100	3.6	300	10.8
		9	Animal Husbandry Based	Treatment and vaccination	To cover at least 500 cattle of Chakla GP @ Rs.84,000/-	500	0.84	500	0.84	500	0.84
Capacity Building Program-Tailoring, Beauty Parlour, Mechanical	Capacity Building programme- Tailoring Training (Trainer fee 6600+Room Rent 2200+ Materials 1200 + Misc 600 *5 Centre * 12 Months) = Rs.6,36,000/- Pico and Other Machines Rs.300000/- at Chakla, Ambatand, Navatoli villages			110	9.36	110	9.36	110	9.36	330	27.96

S. No.	Physical Targets	Activity	Details of Activities	EMP budget for PH concerns (Rs. In Lakh)							
				(1st Year)		(2nd Year)		(3rd Year)		Total	
				Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Total Population (Nos)	Proposed Total Budget
		Rural Enterprise development & Income Generation Programs	Sewing Machines for 50 women @Rs.8400/- each	50	4.2	50	4.2	50	4.2	150	12.6
		Support to SHGs for entrepreneurial activities	To support 10 SHGs with Rs.36,000/- each of Hariya Paduwa village	0	0.0	0	0.0	110	3.6	110	3.6
		Non-farm Based IGP	Promotion of Non-Farm based Livelihood-Cocoon Reeling/Advance stitching/others	200	18.0	200	18.0	200	18.0	600	54.0
10	Natural Resource conservation programs & Non-conventional Energy	Solar energy support and	1st Year & 2nd Year To provide Solar Street Light @Rs.42240/- each*25=10,56,000/- at Chakla & Hariya Paduwa Village 3rd Year To provide Solar Street Light @Rs.42000/- each*50=17,50,000/- at Arandiyatand Village	1200	10.56	1200	10.56	2400	21.0	4800	42.0
		Plantation / Green Belt Development / Roadside Plantation	To distribute 1200 fruit bearing saplings * Rs.60/- each= 72,000/- + program cost 12,000	0	0.0	0	0.0	300	0.84	300	0.84
		Green Belt for Environment Protection	Nursery Development work to maintain Biodiversity and Plantation in Villages Chakla, Hariyatoli, Amwatan, Nawatoli and Ambuatn (5000 Sapling in each Village)	500	60.0	200	24.0	200	24.0	900	108.0
		Strengthening / formation of community based organization (SHGs)	Strengthening 40 nos of SHGs by imparting various Book Keeping Training and Conducting Competitions activities @ Rs.2,400/- each SHG * 40 = Rs.96,000/-	400	0.96	400	0.96	400	0.96	1200	2.88
		Others	Women's Day Celebration at Chakla	500	1.8	500	1.8	500	2.4	1500	6.0
		Social Security									
		Support to old age/ Widow/ physically challenged person / poor	Support to Oldage and widows' people of Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages	0	0.0	0	0.0	30	3.6	30	3.6
		Awareness programmes									
		Community awareness program	03 Awareness program on Disaster Preparedness/ WitchCraft/ Blind Belief/ Road Safety etc. etc.@Rs.36,000/- each with the people of Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages	300	1.08	300	1.08	300	1.08	900	3.24
		Social Events to minimize causes of poverty									
		National/International day celebrations	26th January and 15th August National Days Celebration 02 program @Rs.60,000/- each with the people of	500	1.2	500	1.2	500	1.2	1500	3.6
12	Institutional building & strengthening										

S. No.	Physical Targets	Activity	Details of Activities	EMP budget for PH concerns (Rs. In Lakh)								
				(1st Year)		(2nd Year)		(3rd Year)		Total		
				Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Population (Nos)	Proposed Budget	Target Total Population (Nos)	Proposed Total Budget	
		with community	Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages									
		Support with basic necessities (Blankets)	Blanket distribution to 2000 Senior Citizens of Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages @Rs.300/- each	2000	6.0	2000	6.0	2000	6.0	6000	18.0	
		Promotion of heritage/culture/Sports										
		Support to rural cultural programme, Festivals & Fairs	Support to Rural Culture including Sarhul, Adivasi Diwas & Karma at Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages	4000	9.72	4000	9.72	4000	9.72	12000	29.16	
		Support to Rural Sports program	To support to 04 nos of Mega Sports Tournaments of Football/Cricket and Tribal Sports at Chakla, Hariya Paduwa, Arandiyatand, Ambatand & Nawatoli Villages @Rs.2,00,000/-	2000	8.0	2000	8.0	2000	8.0	6000	24.0	
13	Salary and Overheads	Salary & Overhead Volunteer @Rs.9500/- PM * 12 Months * 4 persons = Rs.4,56,000/-		4	4.56	4	4.56	4	4.56	12	13.8	
SUB TOTAL (B)				36384	258.08	35964	209.24	38889	256.64	111237	723.96	
GRAND TOTAL (A+B)					572.92		385.72		463.48		1422.12	

