

JUSTIFICATION FOR COAL TRANSPORTATION PATHWAY FOR CHAKLA COAL BLOCK & ALTERNATIVES EXPLORED FOR THE PROJECT

Chakla Coal Block

Introduction

Hindalco Industries Limited (HIL) has been selected as the successful bidder Chakla Coal Block, Latehar District of Jharkhand vide letter dated 28th December 2020 of Nominated Authority, Ministry of Coal, Government of India. Subsequently, CMDPA, the agreement between HIL & Government of India for development of the Chakla mine has been signed on 11th January 2021 & the Vesting Order has been issued on 3rd March 2021.

Chakla block is situated in western part of North Karanpura Coalfield having an extractable reserve of 71 million tonnes with annual capacity of 4.5 million tonnes.

HIL intends to use the coal from this mine mainly for the captive use of the End Use Plants situated at Renukoot Cluster (at a distance 300km by Rail) & Aditya, Lapanga (at a distance 415km by Rail). However as per CMDPA, HIL is free to sell the coal in open market also.

Coal Transportation Pathway

Hindalco Industries limited will use environment friendly technologies in its mining operations and also for transportation of mined mineral.

As per the Ministry of Forest & Climate Change (MoEF & CC) policy guidelines issued on 29th April 2021 in their Forest Advisory Meeting (File No.11-91/2012FC), it is stated that

All forthcoming forest clearance proposals (both for green field mining as well as brown field expansion) shall have an additional column for the project proponent to certify that they have

critically examined the mineral extraction pathways and have found them to be adequate, and that no new extraction path outside mining area shall be proposed in the next minimum 5 years

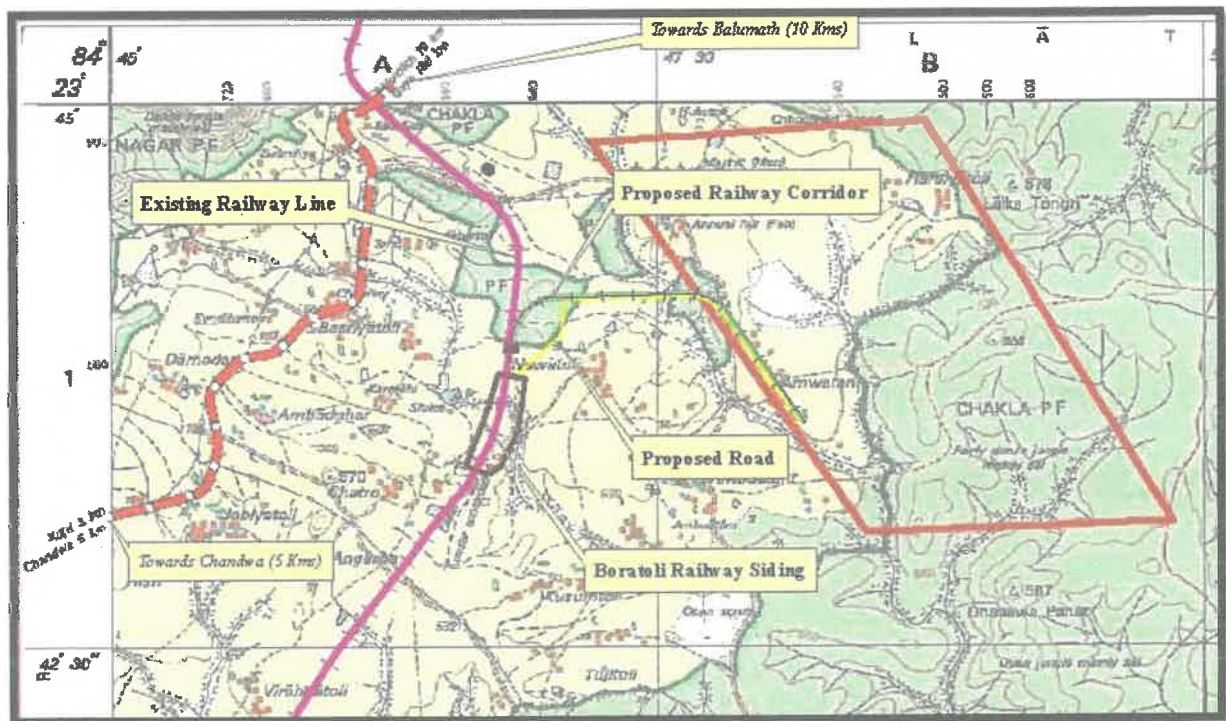
For Chakla Coal Block, Hindalco Industries Limited has critically examined the transportation route and accordingly proposes to have two pathways

1. Transportation via existing road
2. Transportation via rail by construction of new railway corridor

Evacuation by Rail Corridor

The long-term plan is evacuation of coal will by Rail only. A siding will be developed within the proposed Mining Lease which will connect the Tori-Shivpur line near the Biratoli Station, which is about 5 km from the western boundary of the Coal Block.

Proposed Coal Transportation Pathways – Rail & Road



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Alternative Rail & Road Corridors Explored

Two alternative routes have been studied from feasibility point of view and of minimum loss of trees/damage to environment.

Sl.No	Corridor Name	Total Railway Corridor Length in Meters	Railway Corridor Length Outside Chakla ML Area	Approx. Width (mt) of Railway Corridor	Railway Corridor Total Area (Acres)	Railway Corridor outside Chakla ML Area in (Ac.)	New Road Required to be Made in Meters (Outside Chakla ML Area)	Approx. Width of New Road (mt)	New Road Proposed Area outside Chakla M in (Ac.)	Railway and Road Corridor			
										Total Area outside ML (Ac.)	Notified Forest (Outside Chakla ML Area)	Jungle Jhari Area (Outside Chakla ML Area) in Acres	No of Building inside the corridor
1	Proposed	3359.24	1647.1	50	45.4	23.86	1683.09	10	4.02	27.88	15.25	1.55	NIL
2	Alternate 1	3536.35	1597.19	50	43.64	20.00	Nil	Nil	Nil	20.00	9.36	2.23	43
3	Alternate 2	5198.05	3537.45	50	64.22	43.71	894.84	10	2.21	45.92	NIL	0.113	68



Map of Alternative Routes



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Reasons for "Non-Feasibility" of Alternate Alignments – 1 & 2

1. Alignment is Passing through Human settlement areas.
2. Mainly tribal people displacement is needed in the alternative route corridors.
3. No safe gradient available in the alternative routes examined. To get safe gradient of Railway line, No. of turning points/Junctions' houses required will be more

Proposed Railway & Road Corridor

4. Very minimal or almost NIL displacement of tribal people
5. Required Gradient available
6. Shortest Route to the railway siding

Conclusion

Looking at the above advantages of the project and the need for safe transportation of Coal, it is proposed to obtain Forest Clearance for the forest area within the proposed Coal Transportation Pathway (Rail & Road). This will ensure environmentally friendly transportation of fuel for the project proponent


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Chakla Coal Mine

Authorised Signatory on behalf of Hindalco Industries Limited

Rajiv Kumar
Authorised Person
Chakla Coal Mine
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