



भारत 2023 INDIA

वसुधैव कुटुम्बकम्

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CENTRAL COALFIELDS LIMITED

(A Subsidiary of Coal India Limited)


(A Miniratna Category- I Company)

OFFICE OF THE PROJECT OFFICER  
MAGADH OCP, MAGADH-SANGHMITRA  
AREA, AVANTIKA, VILL-KUNDI, PO-  
SARADHU, DIST:- CHATRA

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COMPARATIVE STATEMENT OF ALTERNATE ROUTE  
MAGADH RAILWAY SIDING

Sl No.	Description	Route-I	Route-II	Route-III
1	Route Particulars			
	i) Bee Line (KM)	7.712 Km	7.712 Km	7.712 Km
	ii) Length (KM)	8 Km	11 Km	14 Km
	iii) Terrain	Plain Terrain-95 % Hilly /Undulation Terrain-05%	Plain Terrain-85 % Hilly/ Undulation Terrain-15%	Plain Terrain-80 % Hilly/ Undulation Terrain-20%
2	Environmental Impact	Minimum	Moderate	Moderate
3	House within ROW	NIL	25	30
4	Forest Involvement			
i.	Details of Forest Involved	Most of the forests involved are Protected Forest, and some are Revenue Forest. No Reserve Forest, Archaeological /Defence/Aviation Sites, Wildlife Sanctuary, National Parks Eco Sensitive zone, Biosphere is involved in this alignment.	More forest area involved as compared to Final -I	More forest area involved as compared to Route-I and Route-II
ii.	State Involved	Jharkhand	Jharkhand	Jharkhand
iii.	Length of Forest Area	6.2 Km	7.5 Km	7.2 Km
iv.	Reserved Forest	NIL	NIL	NIL
v.	Protected Forest	88.18 Ha	110.00 Ha	95.00 Ha
vi.	GMJJ	33.11 Ha	38.50 Ha	45.00 Ha
vii.	Total Forest Area	121.29 Ha	148.50 Ha	140.00 Ha
viii.	Flora (Number of tress and species )	16211  Sparse flora through most of the alignment commonly found sepcies like Sakhua, Kaaj, Kend, Palash, Simar, Sidha, Chakud, Asan, Bel,Dhauta, Ginjan, Jamun, Liptus etc.	22432  Dense and diverse flora through most of the alignment commonly found sepcies like Sakhua, Kaaj, Kend, Palash, Simar, Sidha, Chakud, Asan, Bel, Dhauta, Ginjan, Jamun, Liptus etc.	24384  Dense and diverse flora through most of the alignment commonly found sepcies like Sakhua, Kaaj, Kend, Palash, Simar, Sidha, Chakud, Asan, Bel,Dhauta, Ginjan, Jamun, Liptus etc.
ix.	Fauna	Wolf, Jungle Cat, Nilgai, Jackal, Hyena, Fox, Rabbit	Wolf, Jungle Cat, Nilgai, Jackal, Hyena, Fox, Rabbit	Wolf, Jungle Cat, Nilgai, Jackal, Hyena, Fox, Rabbit
5.	Railway crossing	Nil	Nil	Nil
6	Road Crossing	2	4	4

  
 SADALA SATYANARAYAN  
 PROJECT OFFICER  
 MAGADH OCP

Sl No.	Description	Route-I	Route-II	Route-III
7	Power line Crossing	2	6	4
8	Industrial Corridor	NIL	NIL	NIL
9	Site Connectivity	Good	Moderately Good	Not Good
10	Land	Non-Coal Bearing	Coal Bearing	Coal Bearing
11	Recommendation	This route length is comparable minimum crossings, well connected by road network which is convenient for construction /O &M. This route has no wildlife sanctuaries Biosphere, ESZs, Defence & Aviation zones, Industrial corridors. This route has less vegetation, away from settlements areas and least forest land involved and least no of trees will be impacted. Hence this route is more feasible economical, environment friendly and bearing recommended.	This route is ruled out due to ecological reasons as forest land involved is more compared to Route I, The proposed Railway Siding is passing through some of the settlements areas and no proper approach roads to project sites alternative route is uneconomical & unfeasible.	This route is ruled out due to longest route length compared to Route I & II Impact on ecology is expected to be high due to higher forest area, and involvement most of the area is not feasible in terms of constructability and approach roads.

**Remarks:-** After Comparing Route -I , Route-II and Route-III from above table Route-I has been selected as Final Route.

  
**Project Officer**  
**Magadh OCP**

**SADALA SATYANARAYAN**  
**PROJECT OFFICER**  
**MAGADH OCP**

Plan Showing Final Route of Magadh Railway Siding & Alternative Routes

