

# NORTH OF ARKHAPAL AND SRIRAMPUR COAL BLOCK SUMMARY

## PART A

Sr. No.	Features	Details
<b>1.</b>	<b>Location</b>	
	Coal Block	NORTH OF ARKHAPAL AND SRIRAMPUR
	Latitude	20° 53' 00" to 21° 15' 00" N
	Longitude	84° 25' 00" to 85° 21' 00" E
	Topo Sheet No.	73G/4 AND 73H/1 & special sheet nos. D1,D2,E1&E2 (RF – 10,000)
	Coalfield	Talcher Coalfield
	Villages	
	Tehsil/ Taluka	
	District	ANGUL
	State	ORISSA
<b>2.</b>	<b>Connectivity with Block</b>	
	Nearest Rail Head	Nearest Angul & Talcher at a distance of 06 km from the block
	Road	The Block is connected via NH-23 with the district HQ Angul which is 20 km.
	Airport	Bhubaneswar
<b>3.</b>	<b>Area</b>	
	Geological Block Area	19.49 sq km (As per GR)
	Mining Lease Area (As per Mining Plan)	
	Project Area	
	Forest Area	NA
	Non-Forest Area	NA
<b>4.</b>	<b>Climate and Topography</b>	
	Average Annual Rainfall	Minimum-1421 mm
	Temp. (Min. – Max.)	Min.-20 °C to Max. 44 °C
	Local Surface Drainage Channels	Bangaru jore
	Rivers	Brahmni
<b>5.</b>	<b>Exploration</b>	
	Status	Explored
	Exploration Agency	CMPDI, MECL,GSI
	Total Number of Boreholes with meterage	185 nos., 43668.40 m.
	Borehole Density	11 BH/ sq. km.
	General Dip of Seams	Dip-- 3° to 8° towards N & NE
	General Strike Direction	Generally E-W swings to NE-SW

6.	coal Seam details (As per the GR)						
	Coal Seams/ Parting	Thickness Range(m)	Depth Range	Geological Reserve (Mte)	Extractable Reserve (Mte)	Grade	Mining Method (UG/OC/Mixed)
	XV			10.979			OC
	LXIV			0.00			
	XIV			2.048			
	XIII			8.802			
	LXII			0.496			
	XII			27.439			
	XI			25.271			
	X			17.650			
	IX			18.386			
	VIII			15.127			
	VII			105.249			
	VIC			6.167			
	VIB			43.341			
	VIA			64.384			
	LV			1.324			
	VC			8.519			
	VB			103.683			
	VA			61.374			
	LIV			4.525			
	IVC			50.717			
	IVB			202.687			
	IVA			36.495			
	IIID			58.845			
	IIIC			83.926			
	IIIB			57.932			
	IIIA			22.825			
	IIF			39.978			
	IIE			168.727			
	IID			77.087			
	IIC			65.150			
	IIB			159.839			
	IIA			75.190			
	<b>TOTAL</b>			<b>1624.161</b>			

**PART B**

<b>Sr. No.</b>	<b>Features</b>	<b>Details</b>
<b>1.</b>	<b>Previous Allocation</b>	
	Name and Address of Allocatee	<i>M/s TFL has been allotted Northern part of North of Arkhapal-Srirampur coal block. Remaining part is unallocated.</i>
<b>2.</b>	<b>Target Capacity as per Mining Plan</b>	<b>NA</b>
<b>3.</b>	<b>Status of Clearances/Approvals</b>	
	Mining Plan/ Mine Closure Plan	NA
	Forest Clearance	NA
	Environmental Clearance	NA
	Mining Lease	NA
	Land Acquisition	NA
	No. of PAPs as per Mining Plan	NA
<b>4.</b>	Surface Infrastructure already built, if any.	NA

Note: For taking any decision, data may be cross checked/validated from Geological Report, Mining Plan, Mine Closure Plan, Environmental Clearance and Forest Clearance, and the data furnished by the prior Allottee in Annexure - I/II



E-143068  
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Central Mine Planning & Design Institute Limited  
(A Subsidiary of Coal India Limited / Govt. of India Public Sector Undertaking)  
Gondwana Place, Kanke Road, Ranchi - 834 031, Jharkhand (INDIA)  
CORPORATE IDENTITY NUMBER - U14292.TN197560I001223

पत्रांक संख्या: सीएमपीडीआई/डीजी/कैपटीव/१२९/ 1261

दिनांक: ९ फरवरी, २०१८

सेवा में,  
श्री जे.एस.सैनी,  
मुख्य कार्यपालक पदाधिकारी,  
तालचेर फटिलाइजर्स लिमिटेड, नोयडा-२०१ ३०१

विषय: Plan of northern part of North of Arkhapal

महाशय,

With reference to your letter No. TFL/Noida/CMPDI/03/2018 dated 15.01.2018 regarding above subject, it is to be mentioned that the block boundary of the Northern part of North of Arkhapal, communicated to MoC vide opt. cit. letter dt. 31.10.2016, as per the following detail (Annexure-I):

- South:** Part alignment of Fault F3 and F6 in the western part and part of Bangaru Jhore in the eastern part.
- West:** Eastern boundary of Jadunathpur and Subhadra East coal block.
- North:** Northern boundary of original North of Arkhapal and Srirampur coal block as line joining points S & R in the enclosed plan.
- East:** Eastern boundary of original North of Arkhapal and Srirampur coal block joint points R & Q in the enclosed plan upto Bangaru Jhore.

Further, the block boundary along with the geographical coordinates of its cardinal points is enclosed as Annexure-II.

However, since the block is Regionally Explored block and contract for detailed coal exploration, on behalf of allocate, has already been outsourced by CMPDI, hence, the plan given is approximate and will be finalized only after Detailed Exploration.

सधन्यवाद,

भवदीय,

आलोक शर्मा  
3/2/18

(आलोक शर्मा)

महाप्रबंधक (गवेषण)

प्रतिलिपी:

१. निदेशक (तकनीकी/सी.आर.डी), सी.एम.पी.डी.आई, राँची को सादर सूचनार्थ।
२. श्री एन, के सिंह, उप सचिव, भारत सरकार, कोयला मंत्रालय, शास्त्री भवन, नई दिल्ली - १५
३. क्षेत्रिय निदेशक, सी.एम.पी.डी.आई, क्षे.सं-७, भुवनेश्वर।



फोन नम्बर/Phone No. :

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पत्रांक संख्या: डी.जी./कैपटीव/129/ 1080/E-30054

दिनांक: 31.10.2016

✓ सेवा में,  
Shri Rishan Ryntathieng,  
अवर सचिव,  
कोयला मन्त्रालय, भारत सरकार,  
शास्त्री भवन,  
नई दिल्ली-110115

**Sub.: Proposed allocation of 50% of North of Arkhupal Srirampur coal block to Talcher Fertilizer Limited (TFL)**

Dear Sir,

Kindly refer to MoC letter no.38036/02/2014-CA-III dt.04.10.2016 on the subject, requesting to provide details of bifurcated North of Arkhupal Srirampur coal block (Northern Part), as indicated under "Option-I" of the CMPDI's report. As desired, the nomenclature, brief description and a block plan of the North of Arkhupal Srirampur (Northern Part) coal block are enclosed.

भवदीय

  
31.10.2016  
महाप्रबन्धक (गवेषण)

प्रतिलिपि :

1. अध्यक्ष-सह-प्रबन्ध निदेशक, सी.एम.पी.डी.आई., राँची - सादर सूचनार्थ
2. निदेशक (टी/आर.डी.&टी), सी.एम.पी.डी.आई., राँची - सादर सूचनार्थ
3. क्षेत्रीय निदेशक, क्षेत्रीय संस्थान-7, भुवनेश्वर.



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## **North of Arkhupal Srirampur (Northern Part) coal block, Talcher Coalfield**

North of Arkhupal Srirampur coal block, a Non-CIL / Captive block, is situated in the eastern part of Talcher coalfield, Angul district of Odisha and is notified under schedule-I of Coal Mines Special Provision Act 2015. The block is partially explored and the Geological Report of North of Arkhupal Srirampur block was prepared by previous allocattee M/s SETSPL (Strategic Energy Technology Systems Private Limited) with available data in 2010.

MoC, vide letter no. 38036/02/2014-CA-III dated 04.10.2016, has indicated that with reference to CMPDI's report on "Feasibility of bifurcation of North of Arkhupal Srirampur coal block" submitted in March 2016, MoC has considered Option-I of the report for in-principle proposed allocation to M/s Talcher Fertilizer Limited (TFL) under The Coal Mines (Special Provision) Rules, 2014 in public interest. This divides the North of Arkhupal Srirampur (undivided) block in Strike direction (east-west) along the part alignment of Faults F3 and F6 in western part and part of Bangaru Jhore in eastern part (dividing line joining points P & Q as shown in the enclosed plan). As per the conclusion, based on technical considerations, of the CMPDI's report, a brief description of the bifurcated block under consideration i.e. North of Arkhupal Srirampur (Northern Part) coal block comprising an area of 11.7 sq.km. is given below:

Sl. No.	Particulars	Details
1.	Name of Coal Block	North of Arkhupal Srirampur (Northern Part)
2.	Coalfield	Talcher Coalfield
3.	District	Angul
4.	State	Odisha
5.	Limiting co-ordinates in WGS 84 system	X: 85°08'35.4" - 85°11'20.3" Y: 20°59'45.5" - 21°01'53.3"
6.	Geological Block	Shown as line joining points SPQR in enclosed plan
7.	Block boundary	<u>South:</u> Part alignment of Faults F3 and F6 in western part and part of Bangaru Jhore in eastern part. <u>West:</u> Eastern boundary of Jadunathpur & Subhadra East coal blocks. <u>North:</u> Northern boundary of original North of Arkhupal Srirampur coal block shown as line joining points S and R in the enclosed plan. <u>East:</u> Eastern boundary of original North of Arkhupal



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Sl. No.	Particulars	Details
		Srirampur coal block joining points R and Q in the enclosed plan upto Bangaru Jhore
8.	Mining Block	Shown as line joining points ABCDE in the enclosed plan
9.	Villages	Dumuduma, Gorhibandha, Luhundi, Hariharpur, etc
10.	Block Area	11.7 sq. Km.
11.	i. Exploration Status	Partially Explored
	ii. Meterage Drilled	As per GR prepared by previous allocattee M/s SETSPL in 2010 with available data
	a) GSI	2317.50 Metre
	b) CMPDI	16166.45 Metre
	TOTAL	18483.95 Metre
12.	Proposed Additional Drilling (in metre) to prove the total area	20,000 Metre
13.	Structure	Strike of the strata is generally East - West, it swings to NW-SE with local variations. Dip of the formations generally varies between 3 <sup>0</sup> to 8 <sup>0</sup> towards north and northeast
14.	Tentative Geological reserves	About 920 Million Tonnes, mostly in Indicated category
15.	Tentative Grade of Coal	G-9 to G-14
16.	Remarks	Coal resources in major part of the North of Arkhupal Srirampur (Northern Part) coal block are in the Indicated category as per available geological report, so level of confidence in resource estimation in this area is low. As it can be seen from the enclosed plan that northern and eastern parts of the proposed block are mostly unexplored. As such, geological structure and resource estimate are subject to modification after detailed exploration. Detailed exploration is also necessary to convert the resources into Proved category.

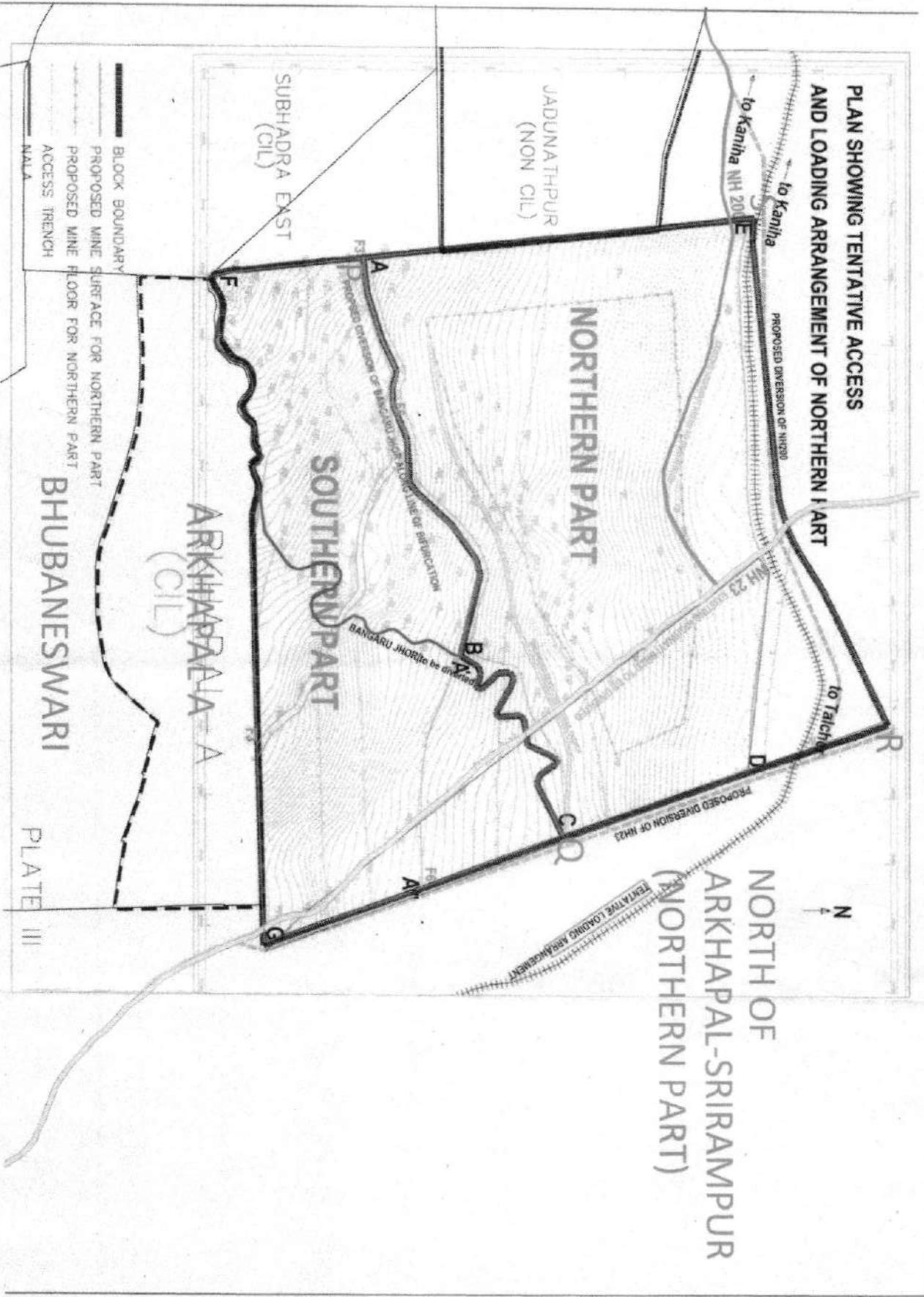
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**PLAN SHOWING TENTATIVE ACCESS  
AND LOADING ARRANGEMENT OF NORTHERN PART**

**NORTH OF  
ARKHAPAL-SRIRAMPUR  
(NORTHERN PART)**

JADUNATHPUR  
(NON CIL)

SUBHADRA EAST  
(CIL)

ARKHAPALA A  
(CIL)

BHUBANESWARI

PLATE III

- BLOCK BOUNDARY
- PROPOSED MINE SURFACE FOR NORTHERN PART
- - - PROPOSED MINE FLOOR FOR NORTHERN PART
- - - ACCESS TRENCH
- NALA

NORTHERN PART

SOUTHERN PART

PROPOSED DIVERSION OF NH 200  
PROPOSED DIVERSION OF NH 23

BANGARU JHORI to be divided

to Kanha  
to Kanha NH 200

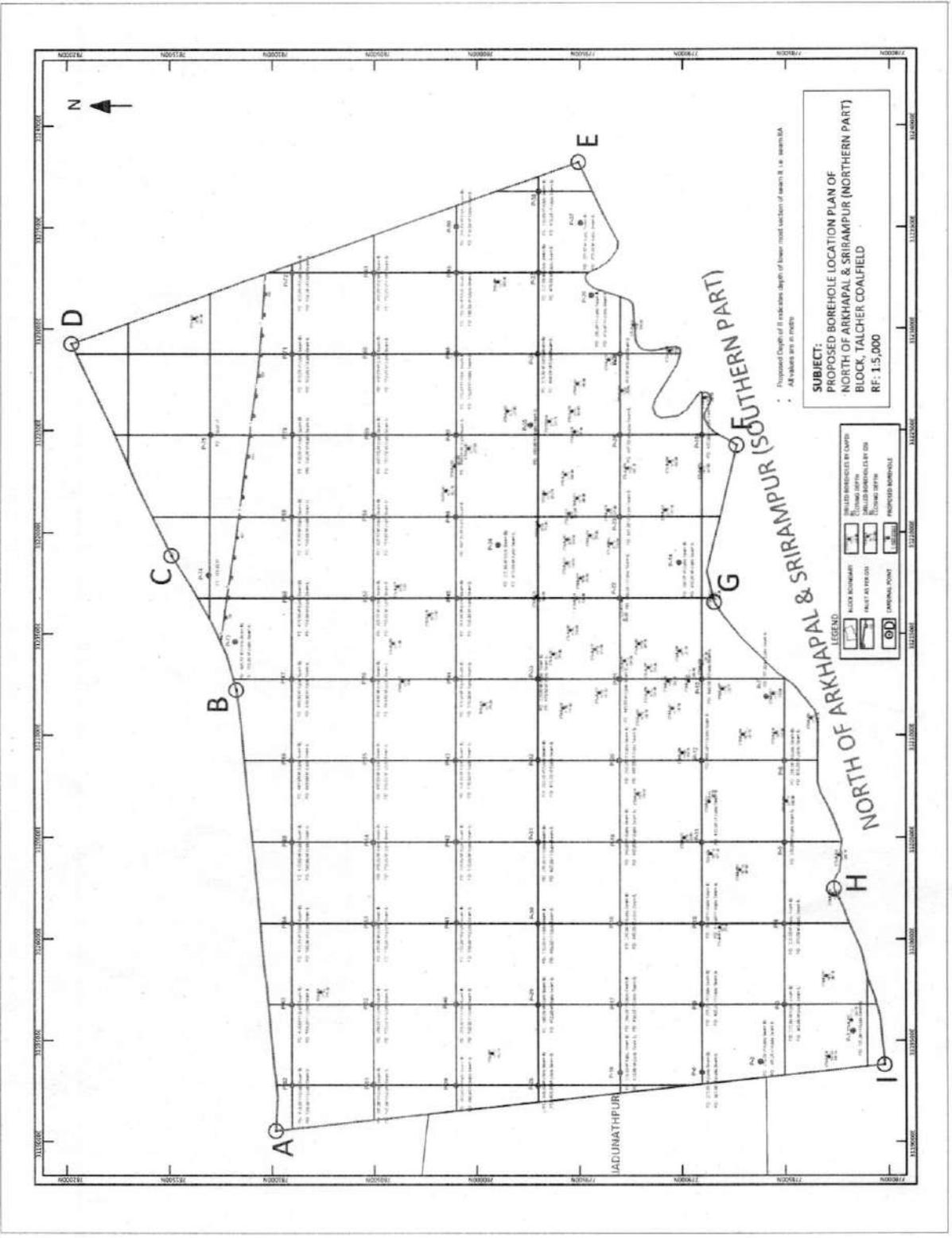
PROPOSED DIVERSION OF NH 200

to Talcher

PROPOSED DIVERSION OF NH 23

N

TENTATIVE LOADING ARRANGEMENT



Cardinal points of the Northern Part of North of Arkhapa

CARDINAL POINTS	COALGRID		WGS84	
	X	Y	X	Y
A	31,19,053.1837	7,80,982.2045	85° 8' 35.478" E	21° 1' 21.920" N
B	31,21,224.0583	7,81,172.9995	85° 9' 50.708" E	21° 1' 27.568" N
C	31,21,887.3990	7,81,489.4915	85° 10' 13.767" E	21° 1' 37.687" N
D	31,22,927.8929	7,81,977.6850	85° 10' 49.937" E	21° 1' 53.289" N
E	31,23,822.1909	7,79,506.6151	85° 11' 20.214" E	21° 0' 32.708" N
F	31,22,427.7482	7,78,735.9226	85° 10' 31.715" E	21° 0' 8.016" N
G	31,21,657.4432	7,78,841.8762	85° 10' 5.073" E	21° 0' 11.661" N
H	31,20,249.5498	7,78,264.1523	85° 9' 16.167" E	20° 59' 53.239" N
I	31,19,380.3743	7,78,020.5272	85° 8' 46.007" E	20° 59' 45.540" N