



OFFICE OF THE COLLECTOR & DISTRICT MAGISTRATE: S U N D A R G A R H
(Mining Section)

No. 200 /IV-17/2020, Dt. 08.07.2020

To

The District Information Officer,
Sundargarh.

Sub: - Exploratory drilling of shot boreholes for seismic survey for coal in Tangarpali East Coal Block, Jharsuguda & Sundargarh district, Odisha Uploading to online processing thereof.

Sir,

I am directed to enclose herewith the copy of letter No.5-85/3216 dtd.12.03.2020 of Regional Director, Central Mine Planning & Design Institute Limited and request you to please upload the same in the Website.

Yours faithfully,


Deputy Collector, Mining
Collectorate, Sundargarh.

Memo No. 201 / Dt. 08.07.2020
Copy to the Regional Director, Central Mine Planning & Design Institute Limited, Bhubaneswar, Odisha for information.


Deputy Collector, Mining
Collectorate, Sundargarh
08/07/20



cmpdi
A Mini-Ratna Company

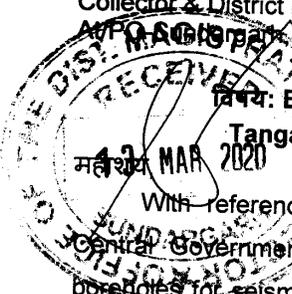
सेन्ट्रल माईन प्लानिंग एण्ड डिजाइन इन्स्टीच्यूट लिमिटेड
(कोल इण्डिया लिमिटेड की अनुषंगी कम्पनी / भारत सरकार का एक लोक उपक्रम)
क्षेत्रीय संस्थान - 7, प्लॉट नंबर: ई-4, गांधी पार्क के निकट, सामन्तापुरी, पो: आर आर एल, भुवनेश्वर, (उड़ीसा), 751013
Central Mine Planning & Design Institute Limited
(A Subsidiary of Coal India Limited / Govt. of India Public Sector Undertaking)
Regional Institute VII, Plot No: E-4, Near Gandhi Park, Samantapuri, PO: RRL, Bhubaneswar 751013 (Orissa)
CORPORATE IDENTITY NUMBER - U14292JH1975G01001223

पत्रांक: सी.एम.पी.डी.आई./क्षे.सं.-VII/डीजी/ 5-85/3216

दिनांक : 12.03.2020

सेवा में,

Collector & District Magistrate,
M.P.A. SOLEOPARK, Odisha



विषय: Exploratory drilling of shot boreholes for seismic survey for coal in
Tangardihi East coal block, Jharsuguda & Sundargarh district, Odisha

With reference to our online proposal (No.-FP/OR/MRL/4/2020) seeking prior approval of Government under the Forest (Conservation) Act 1980, for exploratory drilling of shot boreholes for seismic survey in forest area, we are hereby submitting duly signed hard copy of the said proposal along with necessary enclosures. Details of the proposal is given below:

1. Proposal No. : FP/OR/MRL/4/2020
2. Proposal Name : TANGARDIHI EAST COAL BLOCK
3. Category of the Proposal : Mining
4. Date of Submission : 22/02/2020
5. Name of the Applicant with Contact Details
Name : Ram Krishna
Mobile No. : 9438881016
State : Orissa
District : Khordha
Pincode : 751013
6. Area Applied (ha.) : 2302
7. No. of Boreholes : 1730

Same may kindly be acknowledged in attached format for uploading to online processing website.

Thanking you,

भवदीय

[Signature]
30 March
12-03-2020
क्षेत्रीय निदेशक (क्षे.सं.-VII)

संलग्नक :-

1. Proposal (Form-C) submitted online
2. Necessary enclosure as submitted online



वेब साइट / Website Address : www.cmpdi.co.in E-mail: ri7@cmpdi.co.in

फोन नम्बर / Phone No : Phone: +91(0674) 2301271.

फैक्स नम्बर / Fax No. : +91(0674) 2301762.

Acknowledgement Slip

This is to certify that hard copy of the proposal seeking prior approval of Central Government under the Forest (Conservation) Act 1980, as per details given below, along with all necessary enclosures has been received in the Office of the Orissa on 22/02/2020.

1. **Proposal No.** : FP/OR/MRL/4/2020
2. **Proposal Name** : TANGARDIHI EAST
3. **Category of the Proposal** : Mining
4. **Date of Submission** : 22/02/2020
5. **Name of the User Agency with Contact Details**

Name : Ram Krishna

Mobile No. : 9438881016

State : Orissa

District : Khordha

Pincode : 751013

6. **Area Applied (ha.)** : 2302

FORM - C

Form for seeking prior approval under section 2 of the proposals by the State Governments and other authorities for Prospecting of Minerals in Forest Land

PART - I

A. General Details

A-1. Project Details

- (i). Proposal No. : FP/OR/MRL/4/2020
 (ii). Name of Block in which prospecting is proposed to be undertaken : TANGARDIHI EAST
 (iv). State : Orissa
 (v). Category of the Project : Mining
 (vi). Estimated cost of the Project (Rupees in lacs) : 897
 (vii). Total area of block required for prospecting (in ha.): 2591
 (ix). Total period for which the forest land is proposed to be utilized for prospecting (in years): 1

Proposal No: FP/OR/MRL/4/2020
 State Serial No: DR-035/2020
 Date: 06.03.2020

Pay
 1/2 ANO, Nodal Wing
 O/o-PCCF, Odisha

A-1.1 Mineral commodity

Mineral commodity		
S.no.	Mineral	Mineral commodity to be explored
1	Coal and Lignite	Coal

A-2. Details of User Agency

- (i). Name : CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED
 (ii). Address : Central Mine Planning & Design Institute Ltd., RI-VII, Odisha State Housing Board Building, Sachivalaya Marg, Bhubaneswar
 (iii). State : Orissa
 (iv). District : Khordha
 (v). Pin: 751001
 (vi). Landmark: OSHB Building
 (vii). Email Address: cmpdi.bhubaneswar@gmail.com
 (viii). Landline Telephone No: 2394760
 (ix). Fax No.: 674
 (x). Mobile No.: 9438881044
 (xi). Website: www.cmpdi.co.in
 (xii) Details of Proposals seeking prior approval of Central Government under the Act for diversion of forest land submitted by the User Agency in the past

Proposal Submitted in Past							
S.no	Proposal Status.	Proposal No.	Moef File No.	Area Proposed for Diversion(ha.)	Area Diverted(ha.)	Date of In-Principle Approval	Date of Final Approval
1	Under Processing at State Government	CMPDI/ RI-7/ DG/5.85.1736 dt.09.07.2014		0	0		
2	Under Processing at State Government	CMPDI/ RI-7/ DG/5.85.1735 dt.09.07.2014		0	0		
3	Under Processing at State Government	CMPDI/ RI-7/ DG/5.85.1734 dt.09.07.2014		0	0		
4	Under Processing at State Government	CMPDI/ RI-7/ DG/5.85.1733 dt.09.07.2014		0	0		
5	Under Processing at State Government	CMPDI/ RI-7/ DG/5.85.1732 dt.09.07.2014		0	0		
6	Under Processing at State Government	CMPDI/ RI-7/ DG/5.85.1731 dt.09.07.2014		0	0		
7	Under Processing at State Government	CMPDI/ RI-7/ DG/5.85.1730 dt.09.07.2014		0	0		
8	Under Processing at State Government	CMPDI/ RI-7/ DG/5.85.758 dt.25.07.2014		0	0		
9	Under Processing at State Government	CMPDI/ RI-7/ DG/5.85.759 dt.25.07.2014		0	0		
10	Under Processing at State Government	FP/OR/MRL/19/2019		0	0		
11	Under Processing at State Government	FP/OR/MRL/19/2019		0	0		
12	Under Processing at State Government	FP/OR/MRL/19/2019		0	0		

Emel:
 585/13216
 12.3.2020
 2902/2020

Augst
 27/3/2020
 विभागाध्यक्ष (निरीक्षण)
 HOD (Exploration)
 सी.एम.पी.डी.आर.डी.से.-
 C.M.P.D.I., R.I-VII
 भुवनेश्वर (ओडिशा)
 Bhubaneswar (Odisha)

30/3/20
 02-03-2020

क्षेत्रीय निदेशक
 Regional Director
 सी.एम.पी.डी.आर.डी.से.-
 C.M.P.D.I., R.I-VI
 भुवनेश्वर (ओडिशा)
 Bhubaneswar (Odisha)

(xii). Legal status of User Agency : Central PSU

A-3. Details of Person Making Application

- (i). First Name: Ram Krishna
(ii). Last Name: Mahapatra
(iii). Gender: Male
(iv). Designation: Regional Director
(v). Address 1: CMPDI Ltd,RI-VII,Samantapuri, Near Gandhi Park, PO-RRL, Bhubaneswar -751013
(vi). Address 2: NIL
(vii). State: Orissa
(viii). District: Khordha
(ix). Tehsil: NIL
(x). Pin: 751013
(xi). Landmark: Gandhi Park
(xii). Email Address: cmpdi.bhubaneswar@gmail.com
(xiii). Landline Telephone No.: 2301270
(xiv). Fax No.: 06742301762
(xv). Mobile No.: 9438881016

A-4. Details of Mineral Concessions

- (i). Whether the forest land is acquired under Coal Bearing Areas Act: No
(ii). Reference number of Letter of Intent for grant of prospecting lease (approval letter of the State Mines and Geology Department): DG/FC/714(A)/2019
(iii). Date of issue of the Letter of Intent (LOI) for grant of prospecting lease: 11 Sep 2019
(iv). Copy the Letter of Intent (LOI): 
(v). Total area of the prospecting lease (in ha.): 2591
(vi). Area of forest land located in the prospecting lease (in ha.): 2302
(vii). Copy of Survey of India Topo-sheet (s): 
(viii). Copy of map of the outer boundary of prospecting lease area:  [View File](#)

B. Details of Land required for the Project

B-1. Details of proposal seeking prior approval of Central Government under the Act for diversion of forest land for the Project already submitted in the past

- (i). Whether any proposal seeking prior approval of Central Government under the Act for diversion of forest land required for the project has been submitted in the past? : No

B-2. Details of forest land proposed to be diverted

B-2.1 Details of Divisions involved

Details of Divisions involved			
S.No	Division Name	Forest Land (ha.)	Non-Forest Land (ha.)
1.	Jharsuguda	692	289
2.	Sundergarh	1610	0

B-2.2 Details of Districts involved

District wise breakup			
S.No	District Name	Forest Land (ha.)	Non-Forest Land (ha.)
1.	Jharsuguda	692	289
2.	Sundergarh	1610	0

C. Justification for undertaking prospecting in forest land

- (i). Justification for undertaking prospecting in forest land: 
(ii). Copy of map indicating location of alternatives examined: 

C-2. Whether the forest land identified for prospecting is located in Scheduled Area

- (i). Whether the forest land identified for prospecting is located in Scheduled Area (Yes/No): Yes

Details of activities proposed to be undertaken in forest land

- (i). Details of surface sampling

Details of surface sampling

20/11/2020
21/02/2020

Signature
29/1/2020
H.O.U. (Exploration)
सी.एम.पी.डी.सी.-७
C.M.P.D.I., R.L-VII
भुवनेश्वर (ओडिशा)
Bhubaneswar (Odisha)

Signature
02-03-2020
क्षेत्रीय निदेशक
Regional Director
सी.एम.पी.डी.सी.-७
C.M.P.D.I., R.L-VII
भुवनेश्वर (ओडिशा)
Bhubaneswar (Odisha)

S.no	Surface sampling	Area(In ha.)
1	Grab sampling	0

(ii).Details of Pitting or trenching

Details of Pitting or trenching						
S.no	Number of Pits	Width of Pits (in km.)	Depth of Pits (in km.)	Length of Pits (in km.)	Total volume of excavation	Surface area (in ha.)
1	0	0	0	0	0	0

(iii).Details of Drilling of Boreholes

Details of Drilling of Borehole		
S.no	Number of Drills	Diameter (in Inch)
1	1730	5

Details of Drilling of Borehole				
S.no	Depth of boreholes (in meter)	Area of forest land likely to be experience temporary change in land used at each borehole site(in ha.)	Area of forest land likely to be experience permanent change of land used due to drilling or boreholes(in ha.)	Total meterage of boreholes (in meter)
1	20	.0004	0	34600

(iv).Construction of roads or paths involving temporary change in land use

Details of construction of roads or paths involving temporary change in land			
S.no	Length (in km.)	width (in km.)	Area of forest land(In ha.)
1	0	0	0

(v).Construction of roads or paths involving permanent change in land use

Details of Construction of roads or paths involving permanent change in land use			
S.no.	Length (in km.)	width (in km.)	Area of forest land(In ha.)
1	0	0	0

(vi).Any other activity involving temporary change in land use

Details of Any other activity involving temporary change in land use			
S.no	Whether any other activity involving temporary change in land use in proposed to be undertaken ?	Area Involved(In ha.)	Please specify
1	No	0	

(vii).Any other activity involving permanent change in land use

Details of Any other activity involving permanent change in land use			
S.no	Whether any other activity involving permanent change in land use in proposed to be undertaken ?	Area Involved(In ha.)	Please specify
1	No		

4. Area of forest land likely to experience temporary change in land use

- (i). Surface sampling: Nil
(ii). Pitting or trenching: Nil
(iii). Drilling of bore holes (in ha.): 0.692
(iv). Construction of roads or paths: Nil
(v). Other activity (pl. Specify): Nil

Total : 0.692

5. Area of forest land likely to experience Permanent change in land use

- (i). Drilling of bore holes (in ha.): Nil
(ii). Construction of roads/paths: Nil
(iii). Other activity (pl. Specify): Nil
(iv). Total : Nil

C- Details of machinery or equipments to be deployed for prospecting

29.03.2020

29/3/2020
विभागाध्यक्ष (परिचय)
HOD (Exploration)
सी. एम. पी. डी. आर. - VII
C.M.P.D.I., R.I.-VII
भुवनेश्वर (ओडिशा)
Bhubaneswar (Odisha)

30/3/20
02.03.2020
क्षेत्रीय निदेशक
Regional Director
सी. एम. पी. डी. आर. - VII
C.M.P.D.I., R.I.-VII
भुवनेश्वर (ओडिशा)
Bhubaneswar (Odisha)

6.

Details of machinery or equipments to be deployed for prospecting					
S.No	Name of equipment or machinery	Mode of traction	Size	Estimated deployment(machine hours)	Maximum noise level(decibel)
1	Portable Rigs	Manual/Tractor mounted	3	8	60

D- 1. Details of existing paths/roads in the proposed to be utilized for transport of the equipment or machines in the forest land

(iv). Details of existing paths/roads in the proposed to be utilized for transport of the equipment or machines in the forest land :

D- 2. Number and duration of stay in the forest land of the persons proposed to be deployed for prospecting

Details of Number and duration of stay in the forest land of the persons proposed to be deployed for prospecting		
S.No	Number of person	Duration
1	5	8

D- 3. Summary of the estimated quantity of ore and other samples proposed to be collected during the prospecting

Details of Summary of the estimated quantity of ore and other samples proposed to be collected during the prospecting		
S.No	Details of sample	Qty. proposed to be collected
1	Non-coring drilling	876

D- 4. Estimated accuracy and confidence level for mineral reserve assessment

(i). Estimated accuracy level for mineral reserve assessment : 90

(ii). Estimated confidence level for mineral reserve assessment : 90

D- 5. Estimated accuracy and confidence level in case number of bore holes proposed to be drilled are reduced by

Details of Estimated accuracy and confidence level in case number of bore holes proposed to be drilled are reduced by										
S.No	Accuracy(10%)	Confidence level(10%)	Accuracy(20%)	Confidence level(20%)	Accuracy(30%)	Confidence level(30%)	Accuracy(40%)	Confidence level(40%)	Accuracy(50%)	Confidence level(50%)
1	81	81	72	72	63	63	54	54	45	45

D- In case the proposal is for extension of the period of the permission granted for prospecting, or for drilling of additional boreholes, please provide following additional information

(i). Details of approval accorded under the Forest(Conservation) Act, 1980 in the past

Details of approval accorded under the Forest(Conservation) Act, 1980 in the past				
S.No	Number of the approval accorded	Area of forest land permitted for prospecting(In ha.)	Validity (From) period of approval	Validity (To) period of approval
NIL				

(ii). Report on status of compliance to the conditions stipulated in the approval accorded in the past

Report on status of compliance to the conditions stipulated in the approval accorded in the past		
S.No	Condition stipulated	Status of compliance
1	0	0

(iii). Details of violation(s), if any committed: NIL

(iv). Justification for extension of permission accorded for prospecting:

MLT
27/02/2020

Quartz
27/2/2020

विभाग अध्यक्ष (रावेप) HOD (Exploration)
सी. एम. पी. डी. आई. के. सं. - 1
C.M.P.D.I., R.I.-VII
भुवनेश्वर (ओडिशा)
Bhubaneswar (Odisha)

Documents		
S.No	Documents	Remarks
1		

Sharma
02-03-2020
क्षेत्रीय निदेशक
Regional Director
सी. एम. पी. डी. आई. के. सं. - 1
C.M.P.D.I., R.I.-VII
भुवनेश्वर (ओडिशा)
Bhubaneswar (Odish)



cmpdi
A Miniratna Company



सेन्ट्रल माईन प्लानिंग एण्ड डिजाइन इन्स्टीट्यूट लिमिटेड
(कोल इण्डिया लिमिटेड की अनुसंगी कंपनी / भारत सरकार का एक लोक उद्योग)
गोन्दवाना प्लेस, कान्के रोड, रांची - 834 031, झारखंड (भारत)
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 - INL4292.TN1.975001881223

पत्रांक: डी.जी/ FC/714(A)/2019/

दिनांक: 11 September 2019

सेवा में,
The Principal Chief Conservator of Forests
Odisha Forest Department,
Govt. of Odisha
Bhubaneswar, Odisha

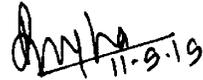
विषय: Approval of the project and authorization of the applicant.

महोदय,

The Central Mine Planning and Design Institute limited, a subsidiary of Coal India Limited (A public Sector undertaking under Ministry of Coal) has approved exploratory drilling for coal in forest area falling in **Tangardihi East coal block** in Sundargarh & Jharsuguda districts, Odisha. The coal block is bounded by Longitude 83°45'13.6"E to 83°51'30.7"E and Latitude 21°49'18.6"N to 21°54'33.3"N and having total area of about 2591 ha. and forest land area of about 1325 ha.

On behalf of CMPDI, Sri Ram Krishna Mahapatro, Regional Director is hereby authorized to apply for seeking prior approval under section (ii) of Forest (Conservation) Amendment Rules 2014 for prospecting of minerals in the above said forest land.

भवदीय,


निदेशक (टी / सीआरडी)



फोन नम्बर/Phone No.: 0651-2230010
फैक्स नम्बर/Fax No.: 0651-2233066
ई-मेल/E-mail: dtcrd.cmpdi@coalindia.in
वेब साइट/Website: www.cmpdi.co.in

Methodology/Technique of prospecting

Down-hole drilling of about 15-20m. depth with borehole size of 4-5 inch. diameter. Drilling of shot holes (at a distance of every 40m along seismic profile lines) shall be carried out by small portable drills without cutting or felling of trees and without making any permanent road within the forest land. Shooting of 1.5-2.0kg of explosive at the bottom of shot holes shall be carried out for generating seismic waves and recording of the same through geophones connected along cables for analysis and interpretation.

Ant
03.03.2020

Pranav
03/03/2020

SA
03.03.2020

क्षेत्रीय निदेशक
Regional Director
सी. एम. पी. डी. आई. डे. से. - ७
C.M.P.D.I., R.I.-VII
भुवनेश्वर (ओडिसा)
Bhubaneswar (Odisha)

Copy of Map indicating location of alternative examined:

Existence of potential coal resources has been established in the block area through exploration undertaken by GSI. The resources are to be brought to 'Proved' category through detailed exploration. The seismic profile lines are very site specific and has been planned for generation of optimum subsurface data for carrying out detailed exploration for proving coal resources. Hence, the examination of alternative is not possible for Tangardihi East coal block, Ib Valley coalfield, Odisha.

03.03.2020

03/03/2020

03.03.2020

अत्राय निदेशक
Regional Director
सी. एम. पी. डी. आई, खे. सं.-९
C.M.P.D.I., R.L-VII
भुवनेश्वर (ओडिशा)
Bhubaneswar (Odisha)

Justification for extension of permission accorded for prospecting:

No application has been submitted in the past and no permission has been obtained for Tangardihi East coal block.

03-03-2020

03/03/2020

03-03-2020

क्षेत्रीय निदेशक
Regional Director
सी. एम. पी. डी. आई. डे. सं.-७
C.M.P.D.I., R.I.-VII
भुवनेश्वर (ओडिशा)
Bhubaneswar (Odisha)

ADDITIONAL INFORMATION

Detailed Exploration in Tangardihi East Block involves Exploratory Drilling along with 2D Seismic Survey. 2D seismic study involves drilling of shot holes for generation of seismic waves through mild explosive shots and study of propagation of generated seismic waves. For the complete study right from the block boundary, data acquisition has to start from about 600 m beyond block boundary. Hence Forest area outside the block boundary is also required as detailed below:

1. Area of the Tangardihi East as per Letter of Intent (LoI) : 2591 ha.
2. Area of Forest Land within Block area as per LoI : 1325 ha.
3. Forest Land required outside the Block area : 977 ha.
4. Total Forest Area applied for : 2302 ha (Jharsuguda Division - 692 ha; Sundargarh-1610 ha)

RLK
03.03.2020

Pranab
03/03/2020

AA
03.03.2020

क्षेत्रीय निदेशक
Regional Director
सी. एम. पी. डी. आई, क्षेत्र-७
C.M.P.D.I., R.I.-VII
भुवनेश्वर (ओडिशा)