



Ref. No.: MCL/GM/MLA/2021/PO/SOCP/ 1057

Date: 09-08-2021

To  
The Divisional Forest Officer,  
Sundargarh Forest Division,  
Sundargarh.

Sub: Diversion of 349.709 ha. of forest land within total mining lease area of 2290.449 ha in Siarmal Open Cast Coal Mining Project by Mahanadi Coalfields Ltd. (MCL) in Sundargarh District, Odisha.

Ref.:

1. Memo No.12511/9F(MG)-35/2021 dt. 29.07.2021 of APPCF & NO(FC Act), Bhubaneswar
2. Memo No. 1998 dt.29.07.2021 of Regional Chief Conservator of Forests, Rourkela Circle, Rourkela
3. Memo No. 3674/4F(Misc)/2021 dt. 02.08.2021 of DFO, Sundargarh

Dear Sir,

With reference to the letters mentioned under reference on the subject cited above, the point wise compliances of the EDS raised by Additional Principle Chief Conservator of Forests, Forest Diversion & Nodal Officer, FC Act, vide his Memo No. 12511/9F(MG)-35/2021 dt. 29.07.2021, is furnished as under:-

**1) The UA has not furnished the document regarding acquisition of land for the project :**

In compliance to the above, this is to state that Siarmal OCP is coming under CIL block and has been dispensed by the Government of India. The complete land coming under the project in the villages of Gopalpur, Siarmal, Jhupurunga, Ratansara, Tumulia & Kulda in the District Sundargarh, Orissa, stands acquired by the Central Government and the ownership is vested with MCL. The details of notifications against which the land was acquired under CBA (A&D) is as mentioned below :

  
Project Officer  
Siarmal OCP



Sl.No	Particulars	Date
1	Date of notification under section 4(i) of CBA(A&D) Act, 1957	13/11/1984 ( Ib Block-VIII) & 24/07/1987 (Ib Block -XI)
2	Date of notification under section 7(i) of CBA(A&D) Act, 1957	27/05/1987 ( Ib Block-VIII) & 25/09/1989 (Ib Block -XI)
3	Date of notification under section 9(i) of CBA(A&D) Act, 1957	10/07/1989 ( Ib Block-VIII) & 29/10/1990 (Ib Block -XI)
4	Date of notification under section 11(i) of CBA(A&D) Act, 1957	13/09/1990 ( Ib Block-VIII) & 30/03/1993 (Ib Block -XI)

Ib Block VIII - Sardega (860.18 Ac), Gopalpur (part)(3060.22 Ac), Jhupruna (1862.78 Ac), Ratansara (1849.75 Ac).

Ib Block XI - Tiklipara (1743.85 Ac), Siarmal (852.34 Ac), Gopalpur (part)(140.67 Ac), Tumulia (2381.32 Ac), Kalikachhar (511.94 Ac), Kulda (542.85 Ac), Bankibahal (836.33 Ac), Balinga (1234.64 Ac), Garjanbahal (798.35 Ac), Kiripsira (1680.11 Ac) & Japti Jungle (Lalma RF) (420.00 Ac)

Villages falling in Siarmal OCP : Siarmal, Jhupuranga, Tumulia, Ratansara, Gopalpur and Kulda

A detailed Lease history has already been submitted earlier against compliance to Point no. 08 raised by RCCF, Rourkela vide Memo No.4140/3F dt. 12.11.2020, copy of which is again being attached herewith as **Annexure-I**.

The copies of 9(i) & 11(i) Gazette notifications have been attached herewith in **Annexure-II**.

## 2) Document in support of approval of Mining Plan and its validity are wanting

In compliance to the above, this is to state that the Mining Plan & Mine Closure Plan of proposed Siarmal OCP has been approved by MCL board in its 198th meeting held on 31-01-2018. The copy of approval is attached herewith as **Annexure-III**. The validity of Mining Plan is for a period of 49 years i.e. the life of the mine.

## 3) Cost Benefit Analysis has not been furnished as per prevailing guidelines of MoEF&CC,

Government of India





In compliance to the above, this is to state the Cost Benefit Analysis has been revised and prepared as per new guidelines of MoEF&CC and has again been furnished herewith as Annexure-IV.

- 4) *The DFO Sundargarh in Checklist no. 20 has mentioned regarding violation, but in site inspection report he has mentioned that there is no violation which is contradictory. You have mentioned in the site inspection report that there is no violation.*

Point to be clarified by DFO Sundargarh.

- 5) *64.091 Ha Revenue forest land proposed for diversion has been uploaded in Part-I Form-A pertaining to village Tumulia but authenticated land schedule 63.87 ha Revenue forest land has been furnished in the DP which is less by 0.218 ha.*

In compliance to the above, the complete land schedule of Forest land has been re-verified by UA and Tahasildar Hemgir and accordingly a fresh land schedule of complete Forest Land coming under the project, duly authenticated by Tahasildar Hemgiri, has been attached herewith as Annexure V. The total Revenue Forest land pertaining to village Tumulia is coming to 158.37 Ac / 64.091 Ha which is as same per Part-I Form-A.

- 6) *In Siarmal Village Plot no. 568 P of Khata No. 51 the area of the plot as per RoR is 0.17 Ac whereas 0.5 Ac has been selected for mining.*

In compliance to the above, the rectification in lieu of Plot no. 568 P of Khata no. 51 of Siarmal Village has been done in the revised land schedule attached herewith as Annexure-V.

*[Signature]*  
Project Officer  
Siarmal OCP

**7) The details of break up of forest land furnished in the DP is not tallying with land schedule furnished in the DP village wise as mentioned below...**

In compliance to the above, after rectifications pointed out in point no. 05 & 06 above, and corresponding modifications in the land schedule, the break up of forest land as per the corrected land schedule stands same as provided in part-I Forma A which is as furnished below :

Break-up of Forest Land			
Mining	SZ	Embankment, OB Dump, Blasting Zone & Others	Total
260.769	3.93	85.01	349.709

**8) 499.361 ha of non forest uploaded in Part-I Form-A pertaining Gopalpur Village but the UA has furnished the detail land schedule of non-forest Govt and Private land of 474.099 ha which is less by 25.262 ha.**

In compliance to the above, a supplementary land schedule comprising of 25.262 ha of Non-forest land, duly authenticated by Tahasildar Hemgiri is attached herewith as **Annexure-VI**.

**9) The ORSAC vetted DGPS map of Revenue forest land proposed for diverted has not been authenticated by the Tahasildar Hemgiri.**

In compliance to the above, The ORSAC vetted DGPS map of Revenue forest land proposed for diversion has been duly authenticated by Tahasildar Hemgiri. The authenticated DGPS map has been attached herewith as **Annexure - VII**.

  
Project Officer  
Sarmal OCP





**10) The Collector Sundargarh has issued FRA Certificate on 21.06.2021 over 349.489 ha against diversion of 349.709 ha. The FRA certificate for balance forest area of 0.22 ha is required to be furnished.**

In compliance to the above, this is to state that the revised FRA certificate for 349.709 ha, including 0.22 ha has been issued by the Collector Sundargarh vide ltr.no. 6217/VIII-05/2021 dt. 14.07.2021. A copy of the same is attached herewith as **Annexure – VIII**. However, an undertaking to this effect is being attached herewith in **Annexure – IX** for submission of FRA for the complete land of 349.709 Ha of forest land proposed to be diverted for the project.

**11) In Part-II Sl.no. 4 the DFO Sundargarh Division has reported 350.11 ha of forest land is to be diverted instead of 349.709 ha.**

Point to be clarified by DFO Sundargarh

**12) The authorized signatory has not signed all the documents enclosed in the DP.**

In compliance to the above, this is to state that all the documents in the DP have been signed by the authorized signatory.

**13) The CA scheme the pit size is to be changed to 45 cm x 45 cm x 45 cm as 18 month old seedling will be planted.**

Point to be clarified by DFO Sundargarh

**14) The Barbed Wire Fencing which may cause harm to wild animals is to be replaced by Vegetative Fencing.**

Point to be clarified by DFO Sundargarh

*[Handwritten signature]*  
**Project Officer  
Siamal OCP**



**15) The UA has not furnished the Environment Clearance certificate.**

In compliance to the above, this is to state that Environment Clearance for Siarmal OCP has been applied for vide : IA/OR/CMIN/24164/2014 , J-11015/230/2014-IA-II (I). The detailed status of Environment Clearance and an undertaking to this effect has been attached herewith as **Annexure X**.


**16) The UA has not furnished the map of mining plan and phased reclamation plan.**

In compliance to the above, the map of stage wise mining plan and phased reclamation is attached herewith as **Annexure XI**.

This is for your kind information

Encl.:- Annexure-I to XI

Yours Sincerely,

  
Project Officer,  
Siarmal OCP  
Mahalaxmi Area.



Lease History

MCL had acquired 19842.26 Acres (8030.05 Ha.) of Land in 15 villages including Gopalpur situated within Hemgir Tahasil in the district of Sundargarh, Odisha, during the year 1984 to 1993 for Basundhara – Garjanbahal Area. The details of Notifications and the quantum of land acquired in different villages is as follows:

*Details of land acquired:**IB BLOCK - VIII (Gopalpur Block)*

Details of Notifications	Name of village	Acquired Area in Acres
Sec.4(1) Vide SO No.4044 Dtd.13.11.84 Sec.7(1) Vide SO No.535 Dtd.27.05.87 Sec.9(1) Vide SO No.1869 Dtd.10.07.1989 Sec.11(1) Vide SO No.2593 Dtd.13.09.1990	Sardega	860.18
	Gopalpur (P)	3060.22
	Jhupuranga	1862.78
	Ratansara	1849.75
	Total	7632.93

*Details of land acquired:**IB BLOCK- XI (Gopalpur Extension)*

Details of Notifications	Name of villages	Acquired Area in Acres.
Sec.4(1) Vide SO No.2002 Dtd.24-7-1987 Sec.7(1) Vide SO No.798 Dtd. 25-9-1989 Sec.9(1) Vide SO No.3055 Dtd. 29-10-1990 Sec.11(1) Vide SO No.43015 Dtd.30-3-1993	Tikilipara	1743.85
	Siarmal	862.34
	Gopalpur (P)	140.67
	Tumulua	2381.32
	Karlikachhar	511.94

31/10/11  
Project Officer  
Siarmal OCP

	Kulda	542.82
	Bankibahal	836.33
	Balinga	1234.64
	Garjanbahal	798.35
	Bangurkela	1055.96
	Kiripsira	1681.11
	Lalma	420.00
Total		12209.33

STATUS OF LAND ACQUISITION OF B.G. AREA									
IB BLOCK - VIII UNDER B.G. AREA									
S.O.No.	SECTION	DATE/YEAR	SI No	Village	Notified land in Ac.				
					Forest	GNF	Tenancy	Total	Acquired
4044	4 (1)	13.11.1984	1	Sardega	328.77	240.51	290.90	860.18	Full
			2	Gopalpur (p)	382.41	1549.84	1127.97	3060.22	Part
			3	Ratansara	472.25	370.33	1007.17	1849.75	Full
			4	Jhupurunga	133.97	344.71	1384.10	1862.78	Full
				Sub Total	1317.40	2505.39	3810.14	7632.93	3089.00 Ha.
535 (E)	7 (1)	27.05.1987		As above	As above				
1859	9 (1)	10.07.1989							
2592	11 (1)	13.09.1990							
	12&17(1)	22.09.2003		Gopalpur					
	12&17(1)	18.10.2003		Sardega					
IB BLOCK - XI UNDER B.G. AREA									
S.O.No.	SECTION	DATE/YEAR	SI No	Village	Forest	GNF	Tenancy	Total	Acquired
2002	4 (1)	24.07.1987	1	Tikilipara	1056.87	204.83	482.15	1743.85	Full
			2	Siarmal	423.45	198.02	240.87	862.34	Full
			3	Gopalpur (p)		125.59	15.08	140.67	Full
			4	Tumulia	312.58	436.62	1632.12	2381.32	Full
			5	Karlikachar	102.41	90.65	318.88	511.94	Full
			6	Kulda	149.01	162.15	231.66	542.82	Full
			7	Bankibahal	435.93	159.19	241.21	836.33	Full
			8	Balinga	236.18	451.25	547.21	1234.64	Full
			9	Garjanbahal	135.92	255.55	406.88	798.35	Full
			10	Bangurkela	279.29	246.01	530.66	1055.96	Full
			11	Kiripsira	505.91	395.73	779.47	1681.11	Full
			12	Lalma RF	420	0	0	420	Full
				Sub Total	4057.55	2725.59	5426.19	12209.3	
798 (E)	7 (1)	26.09.1989		As above	As above				
3055	9 (1)	29.10.1990							
43015	11 (1)	30.03.1993							
	12&17(1)	28.02.1997							
TOTAL IB BLOCK - VII & XI					In AC	5374.95	5230.98	9236.33	19842.26
					In HA	2175.212	2116.949	3737.892	8030.053

  
 Project Officer  
 Siarmal OCP



सं. 40] 128/99

REGISTERED NO. D. (D.N.)-128/99

Vesting order of 11(i) of the CB, R  
Coppalpur block (VII)  
I b valley Area  
S.O. No. 2592, pages 4360-436



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं. 40]  
No. 40]

नई दिल्ली, शनिवार, अक्टूबर 6 1990/आश्विन 14, 1912  
NEW DELHI, SATURDAY, OCTOBER 6, 1990/ASVINA 14, 1912

इस भाग में भिन्न पृष्ठ संख्या की जाती है जिससे कि यह अलग संकलन के रूप में  
रखा जा सके

Separate Paging is given to this Part in order that it may be filed as  
a separate compilation

भाग II—खण्ड 3—उप-खण्ड (ii)  
PART-III—Section 3—Sub-Section (ii)

(इसका संकलन को छोड़ कर) भारत सरकार के मंत्रालयों द्वारा जारी किए गए सार्वजनिक आदेश और अधिसूचनाएं  
Statutory Orders and Notifications Issued by the Ministries of the Government of India other than  
the Ministry of Defence)

कार्य, लोक शिक्षण तथा सेवा विभाग  
(कार्य और विभाग विभाग)

नई दिल्ली 18 अक्टूबर, 1990

का.सं. 2582-1-उपखण्ड, संविधान के अनुच्छेद 148 के खंड (5) के  
अनुसार अनुच्छेद 309 के परामर्श द्वारा प्रत्येक अधिकारी का प्रमोशन  
करते हुए और प्राथमिक सेवा परीक्षा और सेवा विभाग में सेवागत  
अधिकारियों के संबंध में भारत का नियंत्रण-प्रणाली परीक्षा से पराजय  
करने के पश्चात् केन्द्रीय सिविल सेवा (आवरण) विभाग, 1964 का  
अधिनियम करने के लिये नियमित विभाग बनाते हैं, अर्थात् :-

1. (1) इन नियमों का संक्षिप्त नाम केन्द्रीय सिविल सेवा  
(आवरण) अधिनियम, 1990 है।

(2) ये नियमों में आवरण की शर्तों को प्रस्तुत होंगे।

2. केन्द्रीय सिविल सेवा (आवरण) विभाग, 1964 में, विभाग 18  
के अन्तर्गत निम्नलिखित विभाग रखा जाएगा, अर्थात् :-

"13. उपखण्ड 1. इन नियमों में आवरण तथा उपखण्ड के अन्तर्गत,  
कोई भी सरकारी कर्मचारी कोई भी उपखण्ड में कार्य करने के लिये  
आवरण में कार्य करने के लिये किसी अन्य या निम्नलिखित में कार्य करने के लिये  
आवरण को स्वीकार करने की अनुमति देगा।

संश्लेषण... "उपखण्ड" अधिनियम के अन्तर्गत विभाग, अधिनियम,  
भोजन, आवास या कोई अन्य सेवा या शर्तों के लिये नियमों की  
नियम, विभाग सरकारी कर्मचारी के लिये कोई भी सरकारी आवरण न  
हो, को छोड़कर किसी अन्य व्यक्ति द्वारा दिये गये धन या किसी अन्य  
कार्य में।

विभाग : 1. प्राथमिक भोजन, भिन्न या अन्य सामाजिक प्रणालि  
को उपखण्ड में रखा जाएगा।

विभाग : (2) किसी सरकारी कर्मचारी को किसी ऐसे व्यक्ति,  
शैक्षणिक या वाणिज्यिक कार्य, या अन्य कार्य, जिससे  
उसके कार्य प्राथमिक व्यवहार हो, को छोड़ के बहुत  
अधिक या बारबार व्यक्ति स्वीकार करने से बचना चाहिए।

(3) विभाग, अधिनियम, अनुच्छेद 148 के अन्तर्गत, किसी  
प्रकारों पर व्यक्ति व्यक्ति या सामाजिक कार्य के अनुच्छेद उपखण्ड  
दिये जाते हैं, सरकारी कर्मचारी को निम्नलिखित शर्तों में उपखण्ड  
स्वीकार करायेंगे किन्तु, यदि उपखण्ड को स्वीकार करने की शर्त  
में व्यक्ति हो तो सरकारी कर्मचारी किसी अन्य व्यवहार को देगा।

(1) अनुच्छेद 148 के अन्तर्गत, यदि उपखण्ड करने वाले सरकारी कर्मचारी  
के अन्तर्गत में 1990 में।

(4355)

2589 GI/90-1

Project Officer  
Siarmal OCP

( TO BE PUBLISHED IN PART II, SECTION 3 SUB-SECTION (1),  
THE GAZETTE OF INDIA)

GOVERNMENT OF INDIA  
MINISTRY OF COAL

New Delhi, the 28th March, 1993.

ORDER

S.O. Whereas on the publication of the notification of the Government of India in the Extraordinary (Department of Coal) number S.O. 3055 dated the 29th Oct. 1990, in the Gazette of India, Part II, Section 3, Sub-Section (1) dated the 17th November 1990 issued under sub-section (1) of section 2 of the Coal Bearing Areas (Acquisition and Development) Act, 1957 (20 of 1957) (hereinafter referred to as the said Act), the lands and all rights in or over such lands described in the schedule appended to the said notification (hereinafter referred to as the said lands) vested absolutely in the Central Government free from all encumbrances under sub-section (1) of section 10 of the said Act;

And whereas the Central Government is satisfied that the South Eastern Coalfields Limited, Bilaspur (Madhya Pradesh) (hereinafter referred to as the Government Company) is willing to carry out such terms and conditions as the Central Government thinks fit to impose in this behalf;

Now, therefore, in exercise of the powers conferred by sub-section (1) of section 11 of the said Act, the Central Government hereby directs that the said lands and all rights in or over such lands so vested shall, with effect from the 17th November, 1990, instead of continuing to so vest in the Central Government, vest in the Government Company, subject to the following terms and conditions, namely:-

- (1) the Government Company shall reimburse the Central Government all payments made in respect of compensation, interest, damages and the like, as determined under the provisions of the said Act.
- (2) a tribunal shall be constituted for the purpose of determining the amounts payable to the Central Government by the Government Company under condition (1), and all expenditure incurred in connection with any such tribunal and persons appointed to assist the tribunal shall be borne by the Government Company and similarly, all expenditure incurred in respect of all legal proceedings like appeals etc. for or in connection with the rights, in or over the said lands, so vesting shall also be borne by the Government Company;

*[Signature]*  
Project Officer  
Siamal OCP



3

THE SCHEDULE  
GOPALPUR EXTENSION BLOCK  
IB VALLEY COMPLETION  
DISTRICT SUNDARGARH (ORISSA)

ALL RIGHTS

Serial Number	Name of Village	Settlement Number	Tahsil	District	Area in acres	Remarks
1.	Tikilipara	15	Hemgiri	Sundargarh	1743.85	Full
2.	Siarnal	17	Hemgiri	Sundargarh	862.34	Full
3.	Gopalpur	19	Hemgiri	Sundargarh	140.67	Part
4.	Tumulia	75	Hemgiri	Sundargarh	2381.32	Full
5.	Karlikachhar	76	Hemgiri	Sundargarh	511.94	Full
6.	Kulada	77	Hemgiri	Sundargarh	542.82	Full
7.	Ban. kibahal	78	Hemgiri	Sundargarh	636.33	Full
8.	Balinga	79	Hemgiri	Sundargarh	1234.64	Full
9.	Garjanbahal	89	Hemgiri	Sundargarh	798.35	Full
10.	Jangurukela	90	Hemgiri	Sundargarh	1055.96	Full
11.	Kiripsira	91	Hemgiri	Sundargarh	1681.11	Full
12.	Japtijangal	-	-	-	420.00	-

Total: 12229.33 acres  
(approximately)

OR

4941.05 hectares  
(approximately)

*[Signature]*  
Project Officer  
Siarnal OCP

5/6

# Boundary Description:

- K1-K2. Line starts from point 'K' which is a trijunction point of villages Jhapurunga, Tumulia, Jaktijungla and passes along the southern boundary of village Tumulia and meet at point 'K3'.
- K3-K4-K5. Line passes along southern boundary of village Bangurukela and meets at point 'K5'.
- K5-K6-K7  
K8-K9-K10. Line passes partly along the western boundary, partly along south-eastern and northern boundary of village Kiripsira and meets at point 'K10'.
- K10-K11-K12. Line passes along the eastern boundary of villages Garjanbahal and Balinga and meets at point 'K10'.
- K12-K13-  
K14-K15-  
K16. Line passes along the northern boundary of villages Balinga, Bankibahal and partly eastern boundary of Siarmal and Tikilipara then northern boundary of village Tikilipara and meets at point 'K16'.
- K16-C-D. Line passes along the northern-western boundary of village Tikilipara and meets at point 'C'.
- E-A-R-Q  
P-O. Line passes along the eastern boundary of village Siarmal and proceeds through village Gopalpur along the northern boundary of nallah and meets at point 'O'.
- O-N-M. Line passes along the western boundary of village Gopalpur and proceeds through the same village along the southern boundary of nallah and meets at point 'M'.
- M-K-K. Line passes along the western boundary of village Siarmal, Tumulia and meets at the starting point 'K'.

(J.B. Rao)

UNDER SECRETARY TO THE GOVT. OF INDIA

No. 43015/10/87-CA/ISW

contd. 6/10

Project Officer  
Siarmal OCP



(1/4)

Annex - II

J-128

REGISTERED NO. D. (D.N.)-125

Gopalpur block (VIII) 11/15 96)

S.O. No. 1863

Pages 2226 to 2331



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

32] नई दिल्ली, शनिवार, अगस्त 12, 1989/ श्रावण 21, 1911  
No. 32] NEW DELHI, SATURDAY, AUGUST 12, 1989/SRAVANA 21, 1911

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में  
रखा जा सके

Separate Paging is given to this Part in order that it may be filed as a  
separate compilation

भाग II—खण्ड 3—उप-खण्ड (ii)  
PART II—Section 3—Sub-Section (ii)

(रक्षा मंत्रालय को छोड़ कर) भारत सरकार के मंत्रालयों द्वारा जारी किए गए सार्वजनिक आदेश और अधिसूचनाएं  
Statutory Orders and Notifications issued by the Ministries of the Government of India (other than  
the Ministry of Defence)

विधि एवं न्याय मंत्रालय  
(विधि कार्य विभाग)

MINISTRY OF LAW AND JUSTICE

(Department of Legal Affairs)

सूचना

NOTICE

नई दिल्ली, 23 जून, 1989

New Delhi, the 23rd June, 1989

का. भा. 1836—नोटरीज नियम, 1956 के नियम 6 के  
अनुसरण में सक्षम प्राधिकारी द्वारा यह सूचना दी जाती है कि श्री.  
जगद्वर राम बंसी लाल दुग्गल के उक्त प्राधिकारी को उक्त  
नियम के नियम 4 के अधीन एक यावेन इस बात के लिए दिया है कि  
उसे पूना पंचमरी महाराष्ट्र राज्य में व्यवसाय करने के लिए नोटरी के  
रूप में नियुक्त किया जाए।

S.O. 1836.—Notice is hereby given by the Competent Authority in pursuance of rule 6 of the Notaries, 1956, that application has been made to the said Authority, under rule 4 of the said Rules, by Shri Jagadwar Bansilal Duggal, Advocate for appointment as a Notary to practise in Poona and Pimpri Chinchwad Area (M.S.).

उक्त व्यक्ति की नोटरी के रूप में नियुक्ति पर किसी भी  
प्रकार का आक्षेप इस सूचना के प्रकाशन के चौदह दिन के भीतर लिखित  
रूप में देना होगा।

2. Any objection to the appointment of the said person as a Notary may be submitted in writing to the undersigned within fourteen days of the publication of this Notice.

[सं. का 5 (35)/89 (सुडिल०)]

[No. P. 5(35)/89-Poll]

के. डी. सिन्हा, सक्षम प्राधिकारी

K. D. SINOH, Competent Authority

2061, 19-1

(2259)

Project Officer  
Siarnal OCP



3/4

पृष्ठ 11—खंड 3(ii)]

भारत का राजपत्र भाग 12, 1960/अप्रैल 21, 1911

2327

मैं मुद्रा (समूह ग्राम) में दर्ज किए जाने वाले प्लॉट

प्लॉट सं. 1 से 1478, 926/1479, 6/1480, 589/1481, 123/1482, 70/1483, 40/1484, 34/1485, 72/1486, 73/1487, 97/1488, 104/1489, 104/1490, 182/1491, 183/1492, 183/1493, 183/1494, 205/1495, 207/1496, 338/1497, 354/1498, 351/1499, 356/1500, 589/1501, 379/1502, 379/1503, 79/1504, 621/1505, 627/1506, 629/1507, 639/1508, 447/1509, 449/1510, 449/1511, 101/1512, 822/1513, 735/1514, 751/1515, 755/1516, 789/1517, 661/1518, 674/1519, 684/1520, 789/1521, 803/1522, 993/1526, 937/1524, 957/1525, 951/1526, 951/1527, 1123/1525, 1122/1529, 1185/1530, 1195/1531, 1224/1532, 1256/1533, 1286/1534, 1289/1535, 1325/1536, 1302/1537, 1307/1538, 1265/1539, 1169/1540, 1127/1541, 1521, 809/1522, 993/1526, 937/1524, 957/1525, 951/1526, 951/1527, 1123/1525, 1122/1529, 1185/1530, 1195/1531, 1224/1532, 1256/1533, 1286/1534, 1289/1535, 1325/1536, 1302/1537, 1307/1538, 1265/1539, 1169/1540, 1127/1541, 1127/1542, 1127/1543, 1126/1544, 1126/1545, 1251/1546, 1251/1548, 1253/1548, 1253/1549, 1234/1579, 1234/1551, 1234/1552, 1295/1263, 1102/1554, 1101/1553, 1108/1556, 1378/1557, 1402/1558, 1399/1559, 1399/1560, 1399/1561, 1459/1562, 1409/1563, 1409/1564, 1409/1565, 166/1569, 121/1567, 354/1568, 170/1569, 193/1570, 182/1571, 182/1572, 85/1573, 85/1574, 136/1575, 136/1576, 252/1577, 252/1578, 1002/1579, 1002/1580, 1002/1581, 1347/1582, 1347/1583, 1347/1584, 1347/1585, 1347/1586, 1356/1587, 1353/1588, 1353/1589, 1353/1590, 1346/1591, 1346/1592, 1346/1593, 1014/1594, 1014/1595, 1014/1596, 921/1597, 921/1598, 921/1599, 1017/1600, 1017/1601, 989/1606, 1010/1603, 1343/1604, 1150/1605, 1150/1606, 951/1607, 959/1608, 716/1609, 1016/1610, 1406/1611, 1360/1612, 1360/1613, 1354/1614, 1354/1615, 1471/1616, 1471/1617, 1471/1618, 1471/1619, 1471/1620, 1471/1621, 1471/1622, 1471/1623, 1471/1624, 1471/1625, 1471/1626, 1470/1627, 1470/1628, 1479/1629, 1479/1630, 1477/1631, 1477/1632, और 1421/1630

ग्राम गोवासपुर (ग्राम ग्राम) में दर्ज किए जाने वाले प्लॉट

1 से 81, 83 से 369, 362 से 364, 363 से 671, 675 से 692, 684 से 686, 690 से 697, 702 से 735, 737 से 747, 749 से 759, 761 से 1477, 1479 से 1493, 1485 से 1524, 1526 से 1530, 1532 से 1697, 597/1698, 749/1699, 1073/1700, 1321/1701, 1322/1702, 3317/1703, 1173/1704, 1173/1705, 10/1706, 32/1797, 35/1709, 55/1703, 55/1710, 73/1711, 73/1712, 79/1713, 87/1714, 92/1715, 94/1716, 98/1717, 109/1718, 103/1719, 109/1720, 119/1721, 119/1722, 120/1723, 1308/1724, 130/1725, 136/1726, 137/1727, 151/1728, 107/1729, 166/1739, 167/1731, 176/1732, 207/1733, 210/1734, 2243/1735, 325/1736, 234/1737, 353/1738, 335/1739, 345/1740, 338/1741, 329/1742, 307/1743, 319/1744, 316/1745, 269/1746, 326/1747, 304/1748, 389/1749, 390/1750, 390/1751, 282/1752, 474/1753, 507/1754, 518/1755, 520/1756, 534/1757, 536/1758, 540/1759, 548/1760, 549/1761, 613/1762, 606/1762, 614/1763, 615/1765, 627/1766, 634/1767, 634/1768, 651/1769, 659/1770, 663/1771, 654/1772, 657/1773, 628/1774, 663/1775, 670/1776, 670/1777, 663/1779, 554/1779, 569/1780, 776/1781, 980/1782, 674/1783, 800/1784, 301/1785, 803/1786, 804/1787, 810/1788, 619/1789, 620/1790, 820/1791, 820/1792, 851/1793, 857/1794, 808/1795, 808/1796, 874/1798, 963/1799, 888/1800, 618/1801, 947/1802, 1006/1804, 1012/1805, 1012/1806, 1025/1807, 1025/1808, 1055/1809, 1149/1810, 1149/1811, 1105/1812, 1165/1813, 1165/1814, 917/1815, 917/1816, 1191/1817, 1194/1818, 854/1819, 855/1820, 1250/1821, 1251/1822, 1260/1823, 1269/1824, 8260/1825, 1201/1826, 1273/1727, 1817/1828, 1262/1829, 1324/1830, 1376/1831, 1404/1832, 1408/1833, 1414/1824, 1451/1835, 1411/1837, 1075/1838, 720/1839, 720/1840, 740/1841, 1539/1842, 1541/1843, 1551/1844, 169/1845, 1610/1846, 1624/1847, 1631/1848, 1635/1849, 1635/1850, 1636/1851, 1644/1852, 1671/1853, 1671/1854, 1673/1855, 1657/1856, 1657/1857, 1607/1858, 1688/1859, 1699/1860, 1655/1861, 1656/1862, 1649/1863, 1643/1864, 1665/1865, 1493/1866, 1516/1867, 1525/1868, 1496/1869, 1631/1870, 1343/1871, 1609/1872, 425/1873, 431/1874, 357/1875, 350/1876, 350/1877, 430/1878, 480/1879, 492/1880, 482/1881, 482/1882, 482/1883, 485/1884, 486/1885, 486/1886, 487/1887, 493/1888, 597/1889, 597/1890, 639/1891, 634/1892, 637/1893, 640/1894, 638/1895, 645/1897, 1008/1898, 946/1899, 1156/1900, 987/1901, 1409/1902, 1409/1903, 674/1904, 886/1905, 1433/1906, 1436/1907, 1435/1908, 1436/1909, 1435/1910, 1435/1911, 1435/1912, 1086/1913, 1055/1914, 1212/1915, 1215/1916, 1635/1917, 1579/1918, 1695/1919, 249/1920 और 1242/1921.

ग्राम खनसरा (समूह ग्राम) में दर्ज किए जाने वाले प्लॉट

1 से 1947, 123/1948, 751/1949, 1024/1950, 1161/1951, 34/1952, 73/1953, 109/1954, 121/1955, 138/1956, 171/1957, 171/1958, 171/1959, 273/1960, 282/1961, 22/1962, 322/1963, 322/1964, 322/1965, 361/1966, 437/1967, 448/1968, 514/1969, 545/1970, 446/1971, 445/1972, 403/1973, 497/1974, 385/1975, 502/1976, 505/1977, 505/1978, 503/1979, 631/1980, 613/1981, 301/1982, 557/1983, 565/1984, 573/1985, 505/1986, 619/1987, 619/1988, 618/1989, 544/1990, 650/1991, 680/1992, 748/1993, 749/1994, 755/1995, 751/1996, 766/1997, 752/1998, 757/1999, 761/2000, 761/2001, 781/2002, 776/2003, 774/2004, 767/2005, 758/2006, 780/2007, 796/2008, 802/2009, 810/2010, 859/2011, 800/2012, 862/2013, 922/2014, 932/2015, 932/2016, 955/2017, 926/2018, 986/2019, 1064/2020, 897/2021, 894/2022, 1254/2023.

*[Signature]*  
Project Officer  
Sialmal OCP



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XI-1/5

दिनांक सं. बी (डी. एन.) 128/99

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# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं. 46]  
No. 46]

नई दिल्ली, शनिवार, नवम्बर 17, 1990/कार्तिक 26, 1912  
NEW DELHI, SATURDAY, NOVEMBER 17, 1990/KARTIKA 26, 1912

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में  
रखा जा सके

Separate Paging is given to this Part in order that it may be filed as  
a separate compilation

## भाग II—खण्ड 3—उप-खण्ड (II) PART II—Section 3—Sub-Section (ii)

(रक्षा मंत्रालय को छोड़ कर) भारत सरकार के मंत्रालयों द्वारा जारी किए गए सार्वजनिक आदेश और अधिसूचनाएँ  
Orders and Notifications Issued by the Ministries of the Government of India (other than  
the Ministry of Defence)

गृह मंत्रालय  
(सार्वजनिक सुरक्षा विभाग)  
(पुनर्वासि प्रभाग)

MINISTRY OF HOME AFFAIRS  
(Department of Internal Security)  
(Rehabilitation Division)

New Delhi, the 9th October, 1990

नई दिल्ली, 9 अक्टूबर, 1990

सं. पा. 3004.—निम्नलिखित अवधि अधिनियम, 1950  
(1950 का 31) की धारा 5 द्वारा प्रदत्त शक्तियों का प्रयोग करते  
हुए केन्द्रीय सरकार एतद्वारा गृह मंत्रालय पुनर्वासि प्रभाग में संयुक्त  
सचिव, श्री अरुण कुमार को उक्त अधिनियम के द्वारा प्रदत्त उनके अंतर्गत  
निर्वाह मंत्रालयों के महाभित्तक को सौंपिए कार्यों का निष्पादन करने  
के उद्देश्य से महाभित्तक नियुक्त करते हैं।

2. इस अधिसूचना द्वारा दिनांक 27-7-90 की अधिसूचना संख्या-1  
(13)/विदेश सेवा/90-एस. एस.-II (ग)/बन्दोबस्त (घ) का अधिपत्रण  
किया जाता है।

सं. (3)/विदेश सेवा/90—एस. एस.-II (ग)/बन्दोबस्त (घ)]

S.O. 3004.—In exercise of the powers conferred by Section 5 of the Administration of Evacuee Property Act, 1950 (31 of 1950), the Central Government hereby appoints Shri Arun Kumar, Joint Secretary in the Ministry of Home Affairs, Rehabilitation Division, as the Custodian General of Evacuee Property for the purpose of performing functions assigned to such Custodian General by or under the said Act.

2. This supersedes notification No. 1(3)/Spl. Cell/90-SS. II/(S(B) dated the 27th July, 1990.

[No. 1(3)/Spl. Cell/90 SS.II/(S(B)]

सं. पा. 3005.—विदेश सेवा अधिनियम (अधिनियम संख्या 30, 1954) की धारा 3 की शक्तियों (i) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए केन्द्रीय सरकार एतद्वारा गृह मंत्रालय, पुनर्वासि प्रभाग में संयुक्त सचिव श्री अरुण कुमार को उक्त अधिनियम के द्वारा प्रदत्त उनके अंतर्गत निष्पादन करने के उद्देश्य से महाभित्तक नियुक्त करते हैं।

(4877)

Project Officer  
Siarnal OCP

71-3/5

ग्राम सिदारम (संपूर्ण) में अर्जित किए गए प्लॉट संख्यांक :  
प्लॉट संख्यांक 1 से 815

ग्राम गोपालपुर (भाग) में अर्जित किए गए प्लॉट संख्यांक :  
82, 361, 365, 365, 367, 672, 673, 674, 683, 689, 699, 700, 701, 738, 748, 769, 1472,  
1484, 1525, 1531, 689/1803 और 699/1836

ग्राम तुमुलिया (संपूर्ण) में अर्जित किए गए प्लॉट संख्यांक :  
प्लॉट संख्यांक 1 से 2942

ग्राम करलीकरछार (संपूर्ण) में अर्जित किए गए प्लॉट संख्यांक :  
प्लॉट संख्यांक 1 से 510

ग्राम कुलडा (संपूर्ण) में अर्जित किए गए प्लॉट संख्यांक :  
प्लॉट संख्यांक 1 से 461

ग्राम कीमहल (संपूर्ण) में अर्जित किए गए प्लॉट संख्यांक :  
प्लॉट संख्यांक 1 से 657

ग्राम बलिया (संपूर्ण) में अर्जित किए गए प्लॉट संख्यांक :  
प्लॉट संख्यांक 1 से 1111

ग्राम गर्जनबहल (संपूर्ण) में अर्जित किए गए प्लॉट संख्यांक :  
प्लॉट संख्यांक 1 से 1166

ग्राम बगहेकला (संपूर्ण) में अर्जित किए गए प्लॉट संख्यांक :  
प्लॉट संख्यांक 1 से 832

ग्राम तिरिपलिया (संपूर्ण) में अर्जित किए गए प्लॉट संख्यांक :  
प्लॉट संख्यांक 1 से 1715

ग्राम जप्तीजगल (संपूर्ण) में अर्जित किए गए प्लॉट संख्यांक

सीमा वर्णन

ए-ए1-ए2-ए3

ए4-ए5

ए6-ए7-ए8

ए9-ए10-ए11

ए12-ए13-ए14

ए15-ए16

ए16-ग-ख

ख-क-द-घ-त-ग

ग-ह-ड

ह-ड-र-

रेखा ग्राम धुपुवा, तुमुलिया, जप्तीजगल के तिराहे पर बिन्दु "ए" में प्रारंभ होती है और ग्राम तुमुलिया की दक्षिणी सीमा के साथ-साथ चलकर बिन्दु "ए-3" पर मिलती है।  
रेखा ग्राम बगहेकला की दक्षिणी सीमा के साथ-साथ चलकर बिन्दु "ए-5" पर मिलती है।  
रेखा ग्राम तिरिपलिया की पश्चिमी सीमा, भारत दक्षिणी पूर्वी सीमा और भारत उत्तरी सीमा के साथ-साथ चलती हुई बिन्दु "ए-10" पर मिलती है।  
रेखा ग्राम गर्जनबहल और बलिया की पूर्वी सीमा से होती हुई बिन्दु "ए-12" पर मिलती है।  
रेखा ग्राम बलिया, दकीबहल की उत्तरी सीमा के साथ-साथ चलती हुई सिदारमल और तिरिपलिया की भारत: पूर्वी सीमा से होती हुई ग्राम तिरिपलिया की उत्तरी सीमा से गुजर कर बिन्दु "ए-16" पर मिलती है।  
रेखा ग्राम तिरिपलिया की उत्तरी पश्चिमी, सीमा के साथ-साथ चलती हुई बिन्दु "ख" पर मिलती है।  
रेखा ग्राम सिदारमल की पूर्वी सीमा के साथ-साथ चलती हुई, ग्राम गोपालपुर के मध्य से और ताले की उत्तरी सीमा से होती हुई बिन्दु "ग" पर मिलती है।  
रेखा ग्राम गोपालपुर की पश्चिमी सीमा के साथ-साथ चलकर उमी ग्राम के मध्य से होती हुई ताले की दक्षिणी सीमा से होकर बिन्दु "घ" पर मिलती है।  
रेखा ग्राम सिदारमल, तुमुलिया की पश्चिमी सीमा के साथ-साथ चलती हुई प्रारंभ बिन्दु "ड" पर मिलती है।

[म. 47015/16/87-सी.ए.एन.एम.अ.अ.अ.]  
जी.बी. रावे, प्रबन्ध सचिव

Project Officer  
Siarnal OCP

(4575)



M-I-K line passes along the western boundary of village Siamet, Tumalia and meets at the starting point 'K'. (2014/12/81-GA15W)

पंढरीनाथ और प्राकृतिक. गैस संश्लेषण

नई दिल्ली, 1 फरवरी, 1950

आपका जन्म हुआ है।  
 आपका नाम क्या है? मैं जानता हूँ।  
 मैं जानता हूँ। मैं जानता हूँ। मैं जानता हूँ।  
 मैं जानता हूँ। मैं जानता हूँ। मैं जानता हूँ।

बतते कि उच्च भूमि में विप्लव को रोकने, उस भूमि के नीचे वायुमय वाहन विमान के लिए क्षमता बनाए रखनी होगी, इसलिए हमें कोरान्टिन को नियंत्रित करने के लिए वायु वाहन, 270 गुनाय वाहन, वायुमय को इन प्रतिस्पर्धा के कारणों में 21 दिनों के भीतर कार्रवाई करना है।

[illegible][illegible]

1	2	3	4	5	6
भदकाना	04	(51)	00	05	05
		00	00	00	00
		10/1	00	07	00
		10/2	00	01	50
		11	00	04	00
		(52)	00	00	00
		13/2	00	00	50
		14	00	10	60
		15	00	12	60
		17	00	02	20
		18/1	00	01	50
		18	00	04	50
		21	00	00	00
		15	00	05	50
		22	00	00	00
		10	00	06	00
		(71)	00	01	00
		(254)	00	00	00

1	2	3	4	5	6
प्रमूख	00	(27)	50	00	00
		3/1	00	00	11
		3/2	00	00	00
		4/1	00	01	01
		4/2	00	11	09
		05	00	04	55
		09	00	07	08
		(30)	00	01	26
सुप्रभा	02	(22)/1	00	05	31
		10	00	03	29
		(23)/5	00	00	25
		06	00	13	40
		07	00	12	14
		08	00	01	28
		11	00	03	54
		12	00	13	41
		13	00	11	07
		14	00	01	01
		20	00	02	6
		(24)/16	00	12	0
		17	00	05	5
		21/2	00	07	2
		22/21	00	02	0
		22/2	00	0	7
		23	00	13	4
		24	00	06	0
		(32)/15	00	04	0
		16	00	03	0
		17	00	13	0
		18	00	05	0
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		23	00	07	0
		(33)/4	00	01	0
		05	00	11	0
		(35)/6	00	01	0
		07	00	11	0
		08	00	13	0
		09	00	01	0
		11	00	13	0
		12	00	07	0
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		(31)/3	00	07	0
		1/2	00	04	0
		2/1	00	02	0
		2/2	00	00	0
		(44)/1	00	04	0
		(45)/3	00	00	0
		04/1	00	00	0
		4/2	00	03	0
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		07	00	03	0
		08	00	13	0

पञ्चमः ॥ इति श्रीमद्भगवद्गीतायां अष्टमोऽध्यायः ॥

1457

Project Officer  
Siarmal OCP

**COMPANY**[About Us](#)[Board](#)[Policies](#)[History](#)[Collaboration](#)[Structure](#)[Achievements](#)[Corporate Songs](#)**History****History and Formation of Coal India Limited**

With dawn of the Indian independence a greater need for coal production was felt in the First Five Year Plan. In 1951 the Working Party for the coal Industry was set up which included representatives of coal industry, labour unions and government which suggested the amalgamation of small and fragmented producing units. Thus the idea for a nationalized unified coal sector was born. Integrated overall planning in coal mining is a post-independence phenomenon. National Coal Development Corporation was formed with 11 collieries with the task of exploring new coalfields and expediting development of new coal mines.

**Factors which led up to Nationalization of Coal Industry in India**

Nationalization of coal industry in India in the early seventies was a fall out of two related events. In the first instance it was the oil price shock, which led the country to take up a close scrutiny of its energy options. A Fuel Policy Committee set up for this purpose identified coal as the primary source of commercial energy. Secondly, the much needed investment needed for growth of this sector was not forthcoming with coal mining largely in the hands of private sector. The objectives of Nationalization as conceived by late Mohan Kumaramangalam were; Conservation of the scarce coal resource, particularly coking coal, of the country by

- Halting wasteful, selective and slaughter mining.
- Planned development of available coal resources.
- Improvement in safety standards.
- Ensuring adequate investment for optimal utilization consistent with growth needs.
- Improving the quality of life of the work force.

Moreover the coal mining which hitherto was with private miners suffered with their lack of interest in scientific methods, unhealthy mining practices etc. The living conditions of miners under private owners were sub-standard.

**Formation of Coal India Limited**

With the Government's national energy policy the near total national control of coal mines in India took place in two stages in 1970s. The Coking Coal Mines (Emergency Provisions) Act 1971 was promulgated by Government on 16 October 1971 under which except the captive mines of IISCO, TISCO, and DVC, the Government of India took over the management of all 226 coking coal mines and nationalised them on 1 May, 1972. Bharat Coking Coal Limited was thus born. Further by promulgation of Coal Mines (Taking over of Management) Ordinance 1973 on 31 January 1973 the Central Government took over the management of all 711 non-coking coal mines. In the next phase of nationalization these mines were nationalized with effect from 1 May 1973 and a public sector company named Coal Mines Authority Limited (CMAL) was formed to manage these non coking mines.

A formal holding company in the form of **Coal India Limited** was formed in **November 1975** to manage both the companies.

**Major Events and Milestones :**

- 2019-20**
  - Coal Production: Coal India Limited produced 602.13 Million Tonnes (MTs) of coal, CIL breached the 600mt mark for the second year consecutively.
  - In the month of March' 20, CIL produced 84.36 MT, the highest so far in a month since the inception of the company.
  - Coal stock at power houses was its highest in a decade at 45 .01 Mts (28 days) as on 31.3.2020.
- 2018-19**
  - Coal India Limited for the first time, had breached the 600 Million Tonne (MT) mark in coal production and off-take ending FY 2019 by producing 606.89 MTs of coal and supplying 608.14 MTs, clocking growths of 6.97% and 4.8% over previous year respectively.
  - Coal India Limited aligned itself as corporate partner of International Solar Alliance (ISA), through a contribution of 1 Million US \$, a little over Rs. 6.75 Crores, to ISA's corpus fund.
- 2017-18** **WEB Based Online Monitoring System**
  - Monitoring of 69 coal-mining project costing more than Rs.150 Crores with Project monitoring software MS Project have been started in Coal India Limited during the year 2016-17.
  - CIL in association with CMPDI recently launched a portal MDMS (Mine Data Base Management System) to monitor the ongoing projects costing Rs. 20 Crores and above in CIL.
- 2016-17**
  - Coal India has been accredited with IS/ISO 9001:2015 (Quality Management System) and IS/ ISO 50001:2011 (Energy Management System) certification on 27th October 2016.
- 2015-16**
  - For the first time, Coal India's production and off-take have exceeded Half-a-Billion Tonne mark.



- During FY 2016 Coal India as a whole recorded coal production of 538.75 Million Tonnes (MTs).
- Registering nearly 44.51 MTs increase in coal production during FY 2016- the highest ever incremental increase in a single financial year since the inception of the Company.
- Coal India for the first time had surpassed the magical figure of Rs. 1 Lakh Crores in Gross Sales recording Gross Sales of Rs. 1,08,150.03 Crores during 2015-16.
- Coal India continued to be one of the highest contributors to the government ex-chequer in the country- federal and state governments. Coal India paid a corporate tax of Rs. 7,012.35 Crores to Government of India in FY 2016.

**2014-15**

- ECL came out of BIFR, BCCL was awarded Mini Ratna status.
- Coal India is one of the highest contributors to the government ex-chequer in the country both- federal and state governments. Coal India paid a corporate tax of Rs. 9,572.05 crores to Government of India in 2014-15, one of the highest cash payouts among the Indian corporate sector.

**2013-14**

- In 2013-14 CIL was hailed in the media as 'the jewel in the government's PSU Crown', a cash rich company that 'comes to government rescue and 'Coal India's special dividend payout to boost Govt coffers'. This was stated in the context of CIL declaring the highest interim dividend for 2013-14.

**2012-13**

- Coal India Limited was named 'Platts Top 250 Global Energy Company Rankings' for 2012 for having distinguished itself through its remarkable performance last year. Since, 2002 platts has ranked energy companies 'financial performance globally, regionally and by industry sector. For 2012 CIL's rank was 48 on overall global performance.
- CIL ranked No.2 in Coal and Consumable Fuels in Asia/Pacific Rim; also No.2 in Coal and Consumable Fuel globally and No. 11 in overall performance in Asia/Pacific Rim.
- Coal India Limited was conferred with 'Best Geospatial Application in an Enterprise' Award, on 22 January 2013 by Geospatial Media and Communications Pvt. Ltd.

**2011-12**

- Maharatna Status**

Coal India Limited was granted the 'Maharatna' status on 11 April, 2011 by the Government of India thus becoming only the 5th PSU in the country, of a total of 215 Central Public Sector Enterprises (CPSEs), to have been conferred with this status. Government of India has introduced the Maharatna scheme in February 2010 for Central Public Sector Enterprises, in order to empower the mega CPSEs to expand their operations and emerge as global giants. So far, the select club has only five members. The objective of Maharatna is to delegate enhanced powers to the Boards of the identified large Navratna CPSEs, fulfilling the specified criteria, to facilitate expansion of their operations both in domestic as well as global markets.

- Coal India joins SENSEX**

Coal India made it to the 30-stock Sensex, on 8 August 2011, globally considered to be the barometer of the Indian economy, in short span of nine months since its listing on 4 November 2010. No other company has made it to the index in such a short time. And then Coal India's raise to the top came in just seven trading sessions since its entry to SENSEX. This is considered to be a remarkable accomplishment.

- Most Valued Company in the country**

On 17 August 2011, Coal India emerged as the Most Valued Company in the country in terms of Market Capitalization - the pinnacle of success every business entity dreams of and aspires for. The company's value stood at a whopping Rs.2,51,296 Crores. What made the achievement all the more significant was that a public sector company could attain such lofty heights.

- CMPDI in a gas recovery project**

Central Mine Planning and Design Institute (CMPDI) the Ranchi based mine consultancy subsidiary of Coal India Limited has been identified for participation in a Green House Gas recovery from coal mines and un-mineable coal beds and conversion to energy (GHG2E) - an EU funded Research Project from India along with Indian Institute of Technology, Kharagpur.

The basic objective of the project is to contribute to global greenhouse gas reduction by controlling methane emission from coal mines and maximizing utilization of produced methane. Moonidih and Sudamdih mines of BCCL have been considered for taking up this research project. The total time schedule for the project is 42 months. Officials from CMPDI participated in the kick-off meeting held in Slovakia from 6th - 9th Oct.'11. A team comprising of Prof. Sevet Durucan of Imperial College of Engineering, London and Prof. K.Pathak of IIT, Kharagpur and other representatives of both the institutions visited CMPDI on 16th Nov 2011 and the matter was discussed in details regarding the implementation of the project. The team along with CMPDI officials also visited Moonidih mine and BCCL for detailed discussions. CMPDI has received an advance payment of EURO 47,867.35 for the Project.

- Finalizes National Coal Wage Agreement IX in record time**

Coal India Limited (CIL) on 31 January 2012, finalized the wage agreement for its 3.63 Lakh strong non-executive work force by giving a 25% increase on gross wages as of 30 June 2011. The wage hike that would be effective retrospectively from 1 July 2011 is for a five-year period. With the conclusion of the wage negotiation, Coal India for the second time becomes the first Central Public Sector Undertaking in the country to successfully finalize the wage pact. The NCWA IX was concluded in a record time of only 6 months since the formation of JBCCI in August 2011. Never in the history of CIL was a wage agreement concluded so swiftly.

*Signature*  
Project Officer  
Siarmal OCP



2010-11

- Coal India Limited signed a Memorandum of Understanding (MoU) Ministry of Coal on 31st March, 2011 - for its key performance areas for the fiscal 2011-12. As per the MoU for the fiscal 2011-12, CIL's targeted production and coal off-take have been fixed at 452.00 Million Tonnes (MTs) and 454.00 MTs respectively for attaining an 'Excellent' rating. Incidentally for previous three fiscal years i.e. 2007-08, 2008-09 & 2009-10 CIL was rated 'Excellent'.

Under the present MoU for 2011-12 special emphasis on Research & Development, Corporate Social Responsibility, Sustainable development & Corporate Governance have been made as major thrust areas. To attain the targeted off-take, CIL has sought 175 rakes/day for 2011-12 as against the average availability of 156.8 rakes/day & 161.9 rakes/day during previous and current fiscal years. Average growth of coal movement through Rail is only around 2 % during the last 3 years whereas CIL has envisaged a growth of around 13.5 % through rail for achieving above target.

Since last year (2010-11) expenditure on CIL R&D activities has taken a quantum jump from 2009-10 level of around Rs 15 Crores annually to Rs.30 crores. CIL has also stepped up its target for expenditure on CSR activities in line with DPE's guideline.

- Coal India Limited bagged a prestigious first ever international award in Geneva on 7 March 2011. CIL was conferred with the "Century International Quality ERA Award (CQE)" in the Gold Category in recognition of commitment to Quality, Leadership, Technology and Innovation. It was stated that Coal India represents success for India in the Business world. The awards were given by Business Initiative Directions (BID) - a leading private organization focused on the Quality Mix Plan.

- Coal India Limited signed a Memorandum of Understanding with The Shipping Corporation of India Limited in December 2010 for promoting a Joint Venture Company (JVC) in order to create comprehensive end-to-end logistic solution from load port to consuming end. Currently imported coal is supplied by both private and PSU players at consuming ends, particularly to power stations, with comprehensive quality and quantity assurance, whereas, in case of indigenous coal, CIL's term of sale is Free on Rail at Colliery.

Primary objective of the JVC are

1. Owning/chartering of vessels
2. Draft surveying
3. Inspection of cargo
4. Stevedoring at unloading port in India including unloading of vessels, customs clearance, shore clearance, and stacking
5. Indenting wagons from railways, loading of wagons, quality analysis and delivery of coal at power stations

- 4th November was CIL share was listed at Rs.291/- and closed over Rs.342/- on the first day of trading. Most importantly, a national asset was offered to public as 'peoples' ownership' in PSUs.

- 21 October 2010, the day CIL's IPO closed, would be etched as a historic event in the annals of Coal India Limited. The day unraveled the value and the true potential of CIL. Innumerable road shows involving count less man hours of effort across the country and in US, Europe markets had resulted in the grand success of CIL's IPO.

CIL's IPO the largest so far in Indian capital market was over-subscribed 15.3 times. The resounding success of record shattering result of the company's public offer with the aggregate funds flowing amounted to Rs.2,35,276.55 crores which was so far unheard of in the Indian capital market. The over-subscription of the issue happened in all the three major segments i.e. Qualified Institutional Buyers (QIB), High Networth Individuals (HNI) and retail. The QIB for which there was a reservation to the extent of 50% of the net issue of the shares, the over-subscription was as much as 24.62 times. Around 784 QIB investors had put in over US dollar 38 billion i.e. Rs.1,71,469.64 crores which by itself is also an all time high in the history of Indian IPO. In the retail segment nearly 16.36 lakhs applications were received - the highest among all PSU IPOs so far amounting to Rs.63,639.26 Crores. This is also the highest so far in the Indian capital market. Interestingly, the foreign investors alone had put in around US \$ 27 Billion which is equal to first ten months of FII investment in India this year.

- CRISIL the leading credit rating agency in the country has assigned maximum grading of 5 to CIL's proposed IPO - the best for any public sector. The grading indicates that the fundamentals of the IPO are strong compared other listed securities in the country.

2009-10

Award of the Scope Excellence Award to our Company by the Standing Conference of Public Enterprises for the year 2007-08.

Establishment of Coal India Africana Limitada, a foreign subsidiary in Mozambique;  
Conversion of our Company into a public limited company.

Award of 'Mini Ratna' status by the Department of Public Enterprises, GoI, to CMPDIL.

Receipt by our Company of a composite score of 1.47 and rating as "excellent" for the year 2007-2008 by Department of Public Enterprises, Ministry of Heavy Industries & Public Enterprises, GoI.

2008-09

Award of 'Navratna' status to our Company by the Department of Public Enterprises, GoI, for our operational efficiency and financial strength, which affords greater operational freedom and autonomy in decision making.

Overall production of coal by our Company and our Subsidiaries, crossed 400 million tonnes.

2007-08

Award of 'Mini Ratna' status by the Department of Public Enterprises, GoI, to CCL.

2006-07

Award of 'Mini Ratna' status by the Department of Public Enterprises, GoI, to our Company and to MCL, NCL, SECL and WCL.

Decline in debt as a percentage of net worth from 66 % in 2001-2002 to 10 % in 2006 -2007.

2005-06

Rating of 'AAA/Stable', indicating highest degree of safety with regard to timely payment of interest and principal, awarded by CRISIL in respect of the Rs. 250 million bond programme of our Company.

Introduction of sale of coal through 'e-auction method';  
ECL and BCCL reported profit of Rs. 3,638 million and 2,026.67 million in Fiscal 2006.

2003-04

Overall production of coal by our Company and our Subsidiaries crosses 300 million tonnes.

2001-02

Laying down of a minimum internal rate of return of 12% at 85% capacity utilization as cut off for the development of a project.



- 1997-98** Corporatization of the financial flow between our Company and Subsidiaries, such that our Company is to receive only dividends under applicable policy from our Subsidiaries and the corpus of our Company was to be utilized to provide strategic support to a loss making entity only for, inter alia, maintaining their productive capital assets. Sanction of loan of USD 1.03 billion from the World Bank and the Japanese Bank for International Co-operation for implementing 24 highly viable open case projects with global sourcing of equipments, of which USD 484.40 million was availed during the period between Fiscal 1998 to Fiscal 2004.
- 1996-97** Rating of 'A+', indicating adequate safety with regard to timely payment of interest and principal, awarded by CRISIL in respect of the Rs. 4,000 million bond issue by our Company.  
Adoption of financial viability as the basis for approval of coal development projects.  
Discontinuation of retention prices scheme and the Coal Price Regulation Account (CPRA), with the deregulation in prices of certain grades of coal.
- 1995-96** Approval of a financial restructuring package by the Government, whereby Rs. 8,917 million of interest liability was waived, Rs. 9,041.8 million of plan loan repayment arrears was converted to preference equity and Rs. 4,326.4 million of non plan payment arrears were allowed a moratorium for repayment and interest accrual for a period of three years, to be repaid in three equal instalments.  
A profit of Rs. 6,116 million in Fiscal 1996 was earned by our Company.
- 1992-93** Formation of MCL as our Subsidiary to manage mines Talcher and IB valley in the state of Orissa.
- 1991-92** Uptrend of profit started in 1991 and our Company earned a profit of Rs. 1,670 million in Fiscal 1992.  
Overall production of coal by our Company and our Subsidiaries crossed 200 million tonnes.  
Fixing of coal prices once a year to compensate for increase in price of inputs on a normative cost basis, and adoption of the escalation formula prescribed by the Bureau of Industrial Cost and Prices ("BICP").
- 1987-88** 'Blasting Gallery Method' introduced at East Katras mine under BCCL and Chora mine under ECL.
- 1985-86** Formation of NCL and SECL as Subsidiaries of our Company, to manage certain mines managed by WCL and CCL.
- 1981-82** Introduction of retention prices of coal by amending the Colliery Control Order, 1945 by notification dated March 31, 1982, in respect of our Subsidiaries.
- 1980-81** Construction of five new washeries: Moonidih washery, Ramgarh washery, Mohuda washery, Barora washery, Kedla washery.  
Overall production of coal by our Company and our Subsidiaries crossed 100 million tonnes.
- 1979-80** Construction of the low temperature carbonized plant started in Dankuni Coal Complex.  
The pricing policy of CMPDIL was reviewed to ensure that the company was working on a commercial line instead of working on "no profit no loss" basis.
- 1975-76** Change of name of our Company to 'Coal India Limited'.  
Incorporation of CMPDIL, ECL and WCL, and formation of BCCL, CCL, CMPDIL, ECL and WCL, as our Subsidiaries.
- 1973-74** Nationalization of coal mines, in order to provide for a higher growth in coal sector to meet the growing energy needs of the country.  
Incorporation of our Company as 'Coal Mines Authority Limited'.

Maintained by System Division/CIL

Version: 19942198

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*Arp*  
Project Officer  
Starmal GGP

ମହାନଦୀ କୋଲ ଫିଲ୍ଡ୍‌ସ୍ ଲିମିଟେଡ୍  
महानदी कोलफील्ड्स लिमिटेड  
Mahanadi Coalfields Limited  
(A subsidiary of Coal India Limited)

Office of the Company Secretary  
At/Po. Jagruti Vihar, Burla, MCL  
Dist. Sambalpur - 768020 (Odisha)  
CIN: U10102OR1992GOI003038  
TeleFax No. 06632542977  
Email id: cosecymcl@gmail.com  
Website: www.mahanadicoal.in



Ref. No. MCL/SBP/CS/BD-198/ExcV/2018/ 201

Date: 13.02.2018

गोपनीय/CONFIDENTIAL

सेवा में,  
महाप्रबंधक (P&P)  
महानदी कोलफील्ड्स लिमिटेड

**Sub: Extract from the Minutes of the 198<sup>th</sup> Board meeting of MCL held at 10.30 AM on 31<sup>st</sup> January, 2018 at Registered Office of the Company, Jagruti Vihar, Burla, Sambalpur, Odisha-768020.**

प्रिय महोदय,

आप के सूचनार्थ एवं उचित कार्यवाही हेतु एम.सी.एल. निदेशक मण्डल की 198 वी बैठक का उद्धृत दिया जा रहा है। इसी के साथ आप को यह भी अनुरोध किया जा रहा है के इसका ATR यह कार्यालय में यथासिद्ध भेज दें।

- 198.C/9 Request of NLC India Limited (A Govt. of India Enterprise) to retain the daily utilization fee/rent at the same level as was being charged and extension of period of usage by another six months from 28.05.2018 for utilization of services of Deulbera Railway Siding of MCL located at Talcher Coalfield to NLC India Limited for transportation of washed coal to their NTPL Plant.
- 9.1 Deferred.
- 198.C/10 Approval of Mining Plan and Mine Closure Plan for Siarmal OCP (50 Mty) with total mine closure cost of Rs.61474.4870 lakh compounded @ 5% annually for 38 years.
- 10.1 The Board deliberated on the subject in detail and based on the facts brought out in the agenda note and clarification offered by GM (P&P), approved the Mining Plan and Mine Closure Plan for Siarmal OCP (Rated Capacity 50.0Mty) with total mine closure cost of Rs.61474.4870 lakh compounded @ 5% annually for 38 years as per the details brought out in the agenda note.
- 198.C/26 Approval of Completion Report of Ananta OC Expn. Project (12 Mty, up to Phase-II), Bharatpur Area for a total completion cost of Rs.316.875 Crore.
- 26.1 Deferred.
- It may be noted that above minutes supersedes the earlier minutes if issued against urgency note. Further, this is subject to confirmation in the next Board meeting as per prevailing practice.*

*Project Officer  
Siarmal OCP*

भवदीय,

*अमर*  
कंपनी सचिव





No. 34012/(9)/2012-CPAM  
Government of India  
Ministry of Coal

New Delhi, dated 31<sup>st</sup> May, 2012

To

1	Chairman, Coal India Limited, 10-Netaji Subash Road, Kolkata -700001 (W. B).
2	CMD, Eastern Coalfields Limited, Sanctoria, P.O. Dishergarh, Dist. Burdwan-713333, (W. B).
3	CMD, Central Coalfields Limited, Darbhanga House, Ranchi - 834001 (Jharkhand).
4	CMD, Northern Coalfields Limited, P.O. Singrauli, Distt. Sidhi 486889 (M. P).
5	CMD, Bharat Coking Coal Limited, Koyla Bhavan, Koyla Nagar, Dhanbad-826005 (Jharkhand).
6	CMD, Mahanadi Coalfields Limited, Jagriti Vihar, P.O. A. Katpali, Burla, UCE-768 020. Distt. Sambalpur (Orissa)
7	CMD, Western Coalfields Limited, Coal Estate, Civil Lines, Nagpur-440001 (Maharashtra).
8	CMD, South Eastern Coalfields Limited, Seepat Road, Bilaspur - 495001 (Chhasttisgarh).
9	CMD, Central Mine Planning & Design Institute Limited, Gondwana Place, Kanke Road, Ranchi (Jharkhand).

Subject	Approval of Mine Plans / Mine Closure Plans of Coal / Lignite Projects.
---------	---

Sir

I am directed to state that Mining Plans/Mine Closure Plans of Coal India Limited [CIL] and its subsidiaries are not required to be approved by the Standing Committee at Ministry of Coal under MMDR Act for obtaining lease in case of areas of Nationalized mines acquired under Coal Bearing Areas [Acquisition and Development] Act. 1957. Mining Plans of projects of CIL and its subsidiaries are thus prepared by CMPDIL and the project report subsequently prepared and approved by the Board of CIL / Coal companies or Ministry of Coal as per delegated powers.

CIL, its subsidiaries, Neyveli Lignite Corporations Limited [NLC] and Singareni Collieries Company Limited [SCCL] are required to prepare Mining Plans for obtaining leases/renewal of mining leases for areas acquired under LA Act. for non-nationalized areas under MC Rule, 1960 and obtaining the approval of Standing Committee at Ministry of Coal.

As per Guidelines for preparation of Mine Closure Plan [dated January 2012] in the case of projects / mines of Govt. Companies the competent authority to approve the Mine Closure Plan [MCP] will be the authority competent to approve the Mining Plan.

Yours faithfully,

[V.S. Rana]

Under Secretary to the Govt. of India  
Phone No. 23073934

Project Officer  
Siarmal QCP



File No. CPAM-34011/28/2019-CPAM  
Government of India  
Ministry of Coal

\*\*\*

Room No. 622-A, Shastri Bhawan,  
New Delhi, dated 9th September, 2020

To,

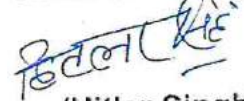
The Chairman,  
CIL, Kolkata

**Subject: Approving Authority for mining plan for projects of CIL and its subsidiary companies - reg.**

I am directed to refer to your letter No. CIL:CH:1307 dated 31.08.2020 on the subject cited above and to convey that there is no change in the existing provisions of approving authority of Mining Plan of CIL and its subsidiary companies which was issued vide this Ministry's letter No. 34012/(9)/2012-CPAM dated 31.05.2012.

This has the approval of competent authority.

Yours Sincerely,



(Hitlar Singh)

Under Secretary to the Govt. of India  
E-mail id: hitlar.singh85@nic.in



Project Officer  
Sarmal OCP

## Cost Benefit Analysis

Cost Benefit Analysis in respect of Diversion of 349.709 Ha of forest land for SiarmalOCP of Mahanadi Coalfields Limited having mine lease area of 2290.449 Ha for supply of coal produced from opencast coal mine (Proposal No. :FP/OR/MIN/32796/2018 State Serial No. OR-061/2019 dt. 07.09.2019).

Table – B Estimation of Cost of Forest Diversion

Sl.No.	Parameters	Remarks	Cost (in Lakh Rs)
1	Ecosystem Service loss due to proposed forest diversion.	Economic Value of loss of ecosystem Services due to proposed diversion of Forest – NPV amount of forest land being diverted as prescribed by Central Government (MoEF&CC).	Economic Value of loss of ecosystem Services due to proposed diversion of Forest shall be Rs 803000 / Ha ( NPV rate as per ECO value of Class III, Tropical Dry Deciduous Forest (DF) as per Handbook Guideline of MoEF& CC, Gol dated 28/03/2019) As prescribed by Central Government (MoEF&CC).  Total Forest area : 349.709 Ha Environment loss: 349.709 x Rs 8,03,000.00  = Rs. 2808.16 lakhs
2	Loss of animal husbandry productivity including loss offodder.	To be quantified and expressed in monetary term or 10% of NPV applicable whichever is maximum.	Rs. 280.82 lakhs
3	Cost of Human Resettlement.	To be quantified and expressed in monetary terms as per approved R & R Plan.	Budgeted Cost of human settlement for 2562 families : Rs. 67804.13 lakhs (Page no. 280 of DP – R&R Plan ) (Chapter – 9 Environmental Economics of EIA EMP of Siarmal OCP – copy enclosed as Annex-"a")
4	Loss of public facilities and administrative infrastructure (roads, building, schools, dispensaries, electric lines, railway etc.) on forest land, which would requires forest land if these facilities were diverted due to project.	To be quantified and expressed in monetary terms on actual cost basis at the time of diversion.	There is no public facilities and administrative infrastructure on the forest land to be diverted. Hence, there is no loss of public facilities.

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5	Possession Value of the forest land diverted.	30% of environment cost (NPV) due to loss of forest or circle rate of adjoining area in the district should be added as a cost component as possession value of forest land whichever is maximum.	<b>Rs 842.45 lakhs</b>
6	Cost of suffering to oustees.	The social cost of rehabilitation of oustees (in additional to the cost likely to be incurred in providing residence, occupation, and social services as per R & R plan) be worked out as 1.5 times of what oustees should have earned in two years had he not been shifted.	The average earning of each family is around Rs 92400.00 per annum considering wages @ Rs. 308/- per day for 300 working days. The total earning of 2562 PAFS will be Rs 2367.288 Lakhs/Years {2562 x Rs. 0.924 Lakhs}. The social of rehabilitation is considered at 1.5 times of what the person should have earned in two years, had the family had not been shifted. <b>Therefore, the suffering of the PAF's is estimated at Rs 2367.288 Lakhs x 2 x 1.5= Rs 7101.86 lakhs</b>
7	Habitat Fragmentation Cost.	While the relation between fragmentation and forest goods and services is complex, for the sake of simplicity the cost due to fragmentation has been pegged at 50% of NPV applicable as a thumb rule.	<b>Rs 1404.08 lakhs</b>
8	Compensatory afforestation and soil & moisture conservation cost.	The actual cost of compensatory afforestation and soil & moisture conservation and its maintenance in future at present discounted value.	The actual cost is taken for compensatory Afforestation and soil & moisture conservation. Amount will be: <b>Rs 1351.76 lakhs</b>

**Total cost due to diversion of forest land:**  
(Rs 2808.16 + Rs 280.82 + Rs 67804.13 + Rs 842.45 + Rs 7101.86 + 1404.08 + 1351.76)

**B. Total Cost to the Society = Rs. 81593.26 lakhs**

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**Table – C Existing guidelines for estimating benefits of forest - diversion**

Sl.No.	Parameters	Remarks	Benefits (in Rs.)
1	Increase in productivity attribute to the specific project.	To be quantified & expressed in monetary terms avoiding double counting.	The NPV obtained from selling of coal as per Project Report of the project at 100 % production level : <b>Rs. 347764 lakhs</b> (As per DP page no. 278)
2	Benefits to economy due to the specific project.	The incremental economic benefit in monetary terms due to the activities attributed to the specific project.	Royalty @ Rs 135.10/ton for 1547820000 T (Total Reserve of Coal) <b>Rs. 2091104.82 lakhs</b> NMET Fund. i.e., 2% of royalty <b>41822.09 lakhs</b> DMF, i.e., 30% of royalty <b>627,331.44 lakhs</b> CGST @ 2.5% of Rs. 965.00/ton x 1547820000 T tons <b>373411.57 lakhs</b> SGST @ 2.5% of Rs. 965.00/ton x 1547820000 T tons <b>373411.57 lakhs</b> <b>Total : 3507081.49 lakhs</b>
3	No. of population benefited due to specific project.		The average No. of population benefited due to this project is about 20000. Assuming a family of four, total numbers of family benefited: 20000/4: 5000 Benefit=5000 x Rs. 5252/month x 12 month x 49 years(Life of Mine) <b>=154408.80 lakhs (As per MGNREGA rates)</b>
4	Economic benefits due to of direct and indirect employment due to the project		The employment potential of the project is 2995 persons per day. The average wages to the employees @ Rs. 1186200.00 (EMS Rs.3954.00 per person * 26 days per month * 12

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			months) per year will be Rs. 39079.36 Lakhs/Year. <b>Total for life of mine (49 years) :</b> <b>Rs.1914888.64 lakhs</b>
5	Economic benefits due to Compensatory afforestation	Benefits from such compensatory forestation accruing over next 50 years monetized and discounted to the present value should be included as benefits of compensatory afforestation	Compensatory afforestation of 691.558 Ha of land @ 800nos of sapling = survival rate @80%. The sapling/691.558 Ha = 553,246 trees Survival trees @ 80% = 442,597 trees Economic benefits of one tree accruing over next 50 years monetized in terms of providing oxygen, water, soil, moisture conservation, etc, timber & firewood = Rs 200000. Future benefits of 442597 nos of trees @ Rs200000 <b>= Rs. 885194.00 lakhs</b>

Total benefits due to diversion of forest land for non – forest activity:  
(Rs 347764.00 + Rs 3507081.49 + Rs 154408.80 + Rs 1914888.64 + Rs 885194.00)

C. Total Benefit to the Society = Rs 6809336.93 lakhs

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## Cost Benefit Analysis

Based on value of products:

1. Total Benefit to the Society	= Rs 6809336.93 lakhs
2. Total Cost to the Society	= Rs 81593.26 lakhs
Cost Benefit Ratio	= $\frac{\text{Total Benefit}}{\text{Total Cost}}$
Cost Benefit Ratio	= $\frac{6809336.93}{81593.26} = 83.45$

Hence Cost Benefit Ratio

for the project is **1 : 83**

For Siarmal OCP, MCL

**Satish Chandra Tripathi**  
Project Officer

  
Project Officer  
Siarmal OCP





## Chapter – 9

## ENVIRONMENTAL ECONOMICS

## 9.1 INTRODUCTION

The cost estimate for EIA-EMP of this project is given below along with the break-up:

Sl. No.	Particulars	Capital Investment (Departmental) (Rs.lakh)
1.	Resettlement & rehabilitation cost	67804.13
2.	Dust suppression cost	597.39
3.	ETP & STP	1105.22
4.	Garland and storm water drainage	1464.43
5.	Compensatory afforestation cost	2391.61
6.	Arboriculture including avenue plantation	374.67
7.	Rain water harvesting	30.75
8.	Peripheral village community development	30.75
9.	Environment Data generation	27.06
	<b>Total :</b>	<b>73826.01</b>

## 9.2 EXPENDITURE TO BE INCURRED TOWARDS CSR

Estimated CSR cost - Rs.30956.4 Lakhs @ Rs.2/te of coal produced.  
(Revenue Expenditure)

However , fund for CSR will be allocated based on 2% of the average net profit of the company for the three immediate preceding financial years or Rs. 2.00 per tonne of coal production of the previous year whichever is higher.

## 9.3 COMPENSATORY AFFORESTATION AND WILD LIFE MANAGEMENT COST

Out of the proposed mining lease area of 2290.45 Ha, forest land is 349.709 Ha. An amount of Rs. 2391.61 Lakhs has been provided for Compensatory Afforestation cost.



As per guideline, Govt. of Orissa, Forest & Environment Dept. Vide letter No.10F (Cons.) 6/2013-20693/F&E dated 05-10-13 have issued instruction to release @ Rs.43000/- per Ha of mining lease area basis towards the cost of wild life management plan. An amount of Rs. 984.89 lakh has been proposed for wild life conservation plan which will be met from revenue budget.

#### 9.4 RAIN WATER HARVESTING

Due emphasis has been given for rain water harvesting. A lump sum amount Rs. 30.75 lakhs has been kept for the infrastructural facilities for storage of rain water for harvesting which will be made from revenue budget.

#### 9.5 COMMUNITY DEVELOPMENT FOR PERIPHERAL VILLAGES

A lump sum amount towards Community Development for Peripheral Villages is Rs. 30.75 Lakh.

#### 9.6 BIOLOGICAL RECLAMATION COST

A provision of Rs. 6218.05 lakhs has been made for biological reclamation, block and avenue plantation.

#### 9.7 MINE CLOSURE COST

As per the guidelines, the cost of mine closure is to be computed based on the quantity of total leasehold area (Total project area) involved in the project. The updated cost of mine closure on November 2017 cost base (WPI: 116.3) is estimated to be Rs. 8.4048287 lakh/Ha (considering Rs.6.0 lakh/ha on Aug.2009 ( WPI : 129.6) cost base as per the guidelines and base year 2004-05=100)

Total Project area involved	: 2580.45 Ha
Mine closure cost/Ha (November 2017 cost base)	: Rs 8.4048287 lakh
Total Mine closure cost (November 2017 cost base)	: Rs 61474.4870 lakh
Fund already deposited in Escrow Account	: Rs 0
Balance mine Closure Cost	: Rs 61474.4870 lakh
Total estimated mine closure cost compounded @ 5% annually is	
<b>Rs. 61474.4870 lakh.</b>	

## 9.8 REVENUE COST FOR EIA & EMP

The revenue cost for EIA & EMP has been worked out. This comes to about **Rs.29.59 per ton of coal** produced. The break-up of revenue cost is given below:

### Revenue Cost for EIA & EMP

Cost Base : June'18

Sl.No.	Particulars	Annual operating cost / tonne Rs.
1.	Salaries, Wages & Benefits	2.27
2.	Stores (as per project costing norms)	3.05
3.	Power	4.00
4.	Biological reclamation	0.11
5.	CSR cost	2.00
6.	Mine closure planning	3.97
7.	Misc. exp. (as per project costing norms)	3.11
8.	Administrative charges	1.48
9.	Int. on working capital @ 14.50%	0.97
10.	Depreciation	8.64
<b>Sub-Total :</b>		<b>29.59</b>
Annual coal Production: (50.0 Mty)		

*Signature*  
Project Officer  
Sarmal OCP





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HEMIGIR

Project Officer  
Shrihari Uchi



# Summary - Land Schedule for Forest land under Siarmal OCP, Mahalaxmi Area, MCL

Village	Mining Area (Ac.)	(In Mining Lease Boundary) Safety Zone (7.5 Mtr. inside from Ac.)	(In Embankment, OB dump, Blasting Zone & Others Area	Total
Siarmal	170.15	2.43	25.09	197.67
Gopalpur	194.23	4.56	33.93	232.72
Ratansara	118.45	0.20	1.12	119.77
Kuida	7.70	0.25	14.68	22.63
Jhupunga	8.23	2.18	122.56	132.97
Tumulia	145.60	0.09	12.68	158.37
(Total Area in Ac.)	644.36	9.71	210.06	864.13
(Total Area in Ha.)	260.769	3.930	85.010	349.709

Certified that status of total land involved in the project (both forest and non-forest) as given in the table above is as per Government records as on 25.10.1980

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Siarmal OCP

Village - Siarmal						
Khata No	Plot No	Kissam	Area as per ROR (In Ac.)	Mining (In Ac.)	Safety Zone (7.5 mtr from Lease Boundary) (In Ac.)	Embankment, OB Zone, Blasting Zone & Others (In Ac.)
51	35	Gramya Jungle	21.75	12.62	0.80	8.33
51	37	Gramya Jungle	4.92	2.40	0.18	2.34
51	42	Gramya Jungle	11.22	10.36	0.10	0.76
51	71	Gramya Jungle	12.65	12.65		
51	97	Gramya Jungle	0.98	0.98		
51	175	Gramya Jungle	2.25	2.25		
51	201	Gramya Jungle	0.10	0.10		
51	203	Saala Jungle	0.50	0.50		
51	671	Saala Jungle	0.27	0.27		
51	694	Saala Jungle	0.14	0.14		
51	695/855	Saala Jungle	0.08	0.08		
51	619/873	Jungle	1.39	1.39		
53	13	Jungle	10.75	0.86	0.60	9.29
53	19	Jungle	0.30	0.30		
53	27	Saala Jungle	0.98	0.98		
53	29	Jungle	6.95	6.95		
53	32	Saala Jungle	1.46	1.46		
53	33	Jungle	0.50	0.50		
53	38	Saala Jungle	0.42	0.42		
53	39	Saala Jungle	0.18	0.18		
53	41	Saala Jungle	0.50	0.50		
53	44	Saala Jungle	1.50	1.50		
53	45	Saala Jungle	0.05	0.05		
53	46	Saala Jungle	0.68	0.68		
53	49	Saala Jungle	0.20	0.20		
53	50	Saala Jungle	1.82	1.82		
53	54	Saala Jungle	0.62	0.62		
53	55	Saala Jungle	0.08	0.08		
53	64	Saala Jungle	0.10	0.10		
53	65	Jungle	0.80	0.80		
53	68	Jungle	0.86	0.86		
53	70	Saala Jungle	0.54	0.54		
53	72	Saala Jungle	0.70	0.70		
53	74	Jungle	0.54	0.54		
53	87	Saala Jungle	0.10	0.10		
53	88	Saala Jungle	0.61	0.61		
53	89	Saala Jungle	0.25	0.25		
53	93	Saala Jungle	0.20	0.20		
53	96	Saala Jungle	0.21	0.21		
53	99	Jungle	3.38	2.25	0.14	0.99
53	101	Jungle	0.20	0.20		
53	102	Saala Jungle	0.44	0.44		
53	103 P	Jungle	9.20	7.54	0.25	0.20
53	150	Saala Jungle	0.15	0.15		
53	152	Saala Jungle	0.25	0.25		
53	153	Saala Jungle	0.50	0.50		

Certified that status of total land involved in the project (both forest and non-forest) as given in the table above is as per Government records as on 25.10.1980

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Project Officer  
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Record Keeper

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53	154	Saala Jungle	0.46	0.46		
53	155	Saala Jungle	0.09	0.09		
53	158	Saala Jungle	0.27	0.27		
53	159	Saala Jungle	0.37	0.37		
53	160	Saala Jungle	0.03	0.03		
53	171	Saala Jungle	0.05	0.05		
53	172	Saala Jungle	0.88	0.88		
53	177	Saala Jungle	6.14	6.14		
53	178	Saala Jungle	2.28	2.28		
53	179	Saala Jungle	0.08	0.08		
53	181	Saala Jungle	0.94	0.94		
53	182	Saala Jungle	0.30	0.30		
53	187	Saala Jungle	0.62	0.62		
53	188	Saala Jungle	2.12	2.12		
53	190	Jungle	0.40	0.40		
53	191	Saala Jungle	0.13	0.13		
53	192	Jungle	0.30	0.30		
53	193	Patraa Jungle	0.17	0.17		
53	196	Jungle	0.13	0.13		
53	197	Saala Jungle	0.30	0.30		
53	198	Jungle	1.20	1.20		
53	200	Saala Jungle	1.75	1.75		
53	202	Saala Jungle	2.82	2.82		
53	204	Saala Jungle	0.32	0.32		
53	206	Saala Jungle	0.21	0.21		
53	208	Jungle	0.16	0.16		
53	209	Jungle	1.30	1.30		
53	210	Saala Jungle	0.15	0.15		
53	212	Saala Jungle	0.11	0.11		
53	228	Jungle	0.12	0.12		
53	229	Jungle	0.11	0.11		
53	244	Saala Jungle	0.25	0.25		
53	246	Saala Jungle	0.19	0.19		
53	247	Saala Jungle	0.50	0.50		
53	248	Saala Jungle	0.20	0.20		
53	249	Saala Jungle	0.06	0.06		
53	250	Saala Jungle	0.05	0.05		
53	253	Saala Jungle	0.14	0.14		
53	255	Saala Jungle	0.19	0.19		
53	256	Saala Jungle	0.16	0.16		
53	257	Saala Jungle	0.10	0.10		
53	262	Saala Jungle	0.96	0.96		
53	267	Saala Jungle	1.66	1.66		
53	269	Saala Jungle	0.06	0.06		
53	271	Saala Jungle	0.11	0.11		
53	274	Saala Jungle	0.04	0.04		
53	278	Saala Jungle	3.24	3.24		
53	281	Saala Jungle	0.25	0.25		
53	286	Saala Jungle	0.70	0.70		
53	287	Saala Jungle	0.21	0.21		
53	301	Jungle	0.11	0.11		
53	568 P	Saala Jungle	0.17	0.05	0.04	
53	570	Jungle	11.87	11.56	0.01	0.30

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Project Officer  
Siarnal OCP

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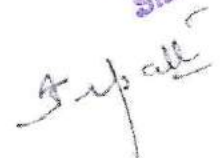
53	582	Saala Jungle	0.12	0.12		
53	585	Jungle	0.60	0.54		0.06
53	587 P	Jungle	2.50	0.40	0.12	1.70
53	588 P	Jungle	0.40	0.03		0.17
53	619	Jungle	7.05	7.05		
53	669	Jungle	13.05	13.05		
53	670	Saala Jungle	0.21	0.21		
53	696	Jungle	18.40	18.40		
53	713	Jungle	0.48	0.48		
53	717	Saala Jungle	0.25	0.25		
53	718	Saala Jungle	0.84	0.84		
53	723	Jungle	1.35	1.35		
53	724	Saala Jungle	0.13	0.13		
53	728	Jungle	2.22	2.22		
53	731	Jungle	1.89	1.89		
53	786 P	Jungle	0.78		0.04	0.20
53	786 P	Jungle	3.24			0.24
53	16/819	Saala Jungle	0.05			
53	98/821	Saala Jungle	0.65		0.14	0.51
53	47/830	Saala Jungle	0.04	0.04		
53	47/831	Saala Jungle	0.10	0.10		
53	47/832	Saala Jungle	0.08	0.08		
53	52/833	Saala Jungle	0.15	0.15		
53	59/834	Saala Jungle	0.14	0.14		
53	69/835	Saala Jungle	0.05	0.05		
53	80/837	Saala Jungle	0.07	0.07		
53	85/839	Saala Jungle	0.05	0.05		
53	90/840	Saala Jungle	0.12	0.12		
53	290/848	Saala Jungle	0.12	0.12		
53	18	Saala Jungle	0.09	0.09		
Total Area (In Ac.)			203.02	170.15	2.43	25.09
Total Area (In Ha.)			82.161	68.859	0.982	10.154

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Project Officer  
Siarnai CCR

  
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Village - Gopalpur						
Khata No	Plot No	Kissam	Area as per ROR (In Ac.)	Mining (In Ac.)	Safety Zone (7.5 mtr from Lease Boundary) (In Ac.)	Embankment, OB Zone, Blasting Zone & Others (In Ac.)
184	362	Jungle	11.42	3.03	0.92	7.47
184	364	Jungle	1.32		0.19	1.13
184	705	Jungle	7.38	7.38		
184	711	Jungle	7.23	7.23		
183	763	Jungle	5.78	1.33	0.58	3.87
184	773	Jungle	2.35	2.35		
184	783	Jungle	0.65	0.65		
184	784	Jungle	2.70	2.70		
184	954	Jungle	0.22	0.22		
184	955	Jungle	5.20	3.10	0.37	1.73
184	975	Jungle	4.62	4.62		
184	982	Jungle	2.62	2.62		
182	1011	Jungle	12.74	12.74		
184	1023	Jungle	3.30	3.30		
184	1066	Jungle	0.50	0.50		
184	1128	Jungle	10.85	10.85		
184	1136	Jungle	4.95	4.95		
184	1193	Jungle	0.72	0.72		
184	1209	Jungle	0.76	0.76		
182	1451	Jungle	4.87	4.87		
184	1459	Jungle	2.18	2.18		
184	1466	Jungle	1.57	1.57		
184	1477	Jungle	17.60	10.52	0.85	6.23
184	1485	Jungle	21.65	11.99	0.95	8.71
184	1492	Jungle	2.26	2.26		
184	1494	Jungle	2.52	2.52		
184	1498	Jungle	7.90	7.90		
184	1501	Jungle	12.87	12.87		
184	1511	Jungle	1.52	1.52		
184	1514	Jungle	2.13	2.13		
184	1523	Jungle	5.30	4.59		0.71
184	1526	Jungle	5.40	0.99	0.40	4.01
184	1536	Jungle	3.04	2.67	0.30	0.07
184	1547	Jungle	2.98	2.98		
184	1549	Jungle	5.00	5.00		
182	1553	Jungle	2.06	2.06		
184	1561	Jungle	2.64	2.64		
184	1568	Jungle	1.28	1.28		
184	1600	Jungle	1.48	1.48		
184	1602	Jungle	2.27	2.27		
184	1613	Jungle	2.00	2.00		
184	1616	Jungle	3.30	3.30		
184	1619	Jungle	3.00	3.00		
182	1621	Jungle	11.37	11.37		
184	1632	Jungle	4.03	4.03		
184	1680	Jungle	0.55	0.55		
184	1689	Jungle	2.24	2.24		

Certified that status of total land involved in the project (both forest and non-forest) as given in the table above is as per Government records as on 25.10.1980

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Record Keeper

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Project Officer  
Siarnal OGR

184	1697	Jungle	12.40	12.40		
Total Area (In Ac.)			232.72	194.23	4.56	33.93
Total Area (In Ha.)			94.180	78.604	1.845	13.731

Certified that status of total land involved in the project (both forest and non-forest) as given in the table above is as per Government records as on 25.10.1980

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HEMGIR

Spall  
Project Officer  
Siarnal OC?



Village - Ratansara						
Khata No	Plot No	Kissam	Area as per ROR (In Ac.)	Mining (In Ac.)	Safety Zone (7.5 mtr from Lease Boundary) (In Ac.)	Embankment, OB Zone, Blasting Zone & Others (In Ac.)
193	935	Jungle	0.76	0.37	0.12	
193	1092	Patraa Jungle	3.26	2.52		0.74
193	1094	Patraa Jungle	0.91	0.91		
193	1095	Jungle	0.07	0.07		
193	1097	Jungle	2.20	2.20		
191	1143	Sal Jungle	0.08	0.08		
193	1131	Jungle	2.44	2.44		
191	1132	Sal Jungle	0.73	0.73		
193	1140	Patraa Jungle	0.32	0.32		
191	1141	Sal Jungle	0.06	0.06		
191	1143	Sal Jungle	0.08	0.08		
193	1144	Patraa Jungle	1.07	1.07		
193/191	1145	Sal Jungle	0.11	0.11		
191	1146	Sal Jungle	0.26	0.26		
193	1148	Patraa Jungle	0.36	0.36		
193	1160	Patraa Jungle	0.12	0.12		
191	1167	Sal Jungle	0.11	0.04		0.07
191	1198	Sal Jungle	0.47	0.47		
191	1199	Sal Jungle	0.12	0.12		
191	1200	Sal Jungle	0.16	0.16		
191	1201	Sal Jungle	0.58	0.58		
191	1202	Sal Jungle	0.50	0.50		
191	1203	Sal Jungle	0.27	0.27		
191	1204	Gramya Jungle	27.50	27.50		
193	1206	Patraa Jungle	2.33	2.33		
193	1207	Patraa Jungle	0.08	0.08		
193	1209	Patraa Jungle	0.08	0.08		
193	1210	Patraa Jungle	4.56	4.56		
191	1212	Sal Jungle	0.18	0.18		
193	1216	Patraa Jungle	0.06	0.06		
193	1217	Patraa Jungle	1.75	1.75		
193	1218	Patraa Jungle	0.06	0.06		
193	1220	Jungle	1.61	1.61		
193	1222	Jungle	0.11	0.11		
193	1225	Jungle	6.62	6.62		
193	1236	Jungle	0.16	0.16		
193	1237	Jungle	0.23	0.23		
191	1238	Sal Jungle	0.12	0.12		
191	1240	Sal Jungle	0.20	0.20		
193	1781	Jungle	5.22	5.22		
193	1782	Jungle	0.26	0.26		
193	1784	Jungle	0.31	0.31		
191	1790	Gramya Jungle	28.82	28.82		
193	1791	Jungle	13.49	13.49		
193	1793	Jungle	0.51	0.51		
191	1795	Bada Jungle	0.33	0.33		
193	1796	Jungle	0.05	0.05		

Certified that status of total land involved in the project (both forest and non-forest) as given in the table above is as per Government records as on 25.10.1980

*[Signature]*  
Record Keeper

*[Signature]*  
TAHASILDAR  
HEMGIR

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*  
Project Officer  
Siarnal OCP.

193	1798	Jungle	4.66	4.66		
193	1802	Jungle	0.22	0.22		
193	1835	Jungle	0.130	0.13		
193	1839	Jungle	0.25	0.25		
193	1841	Jungle	0.18	0.18		
193	1865	Jungle	2.77	2.77		
193	1867	Jungle	0.09	0.09		
193	986/2018 P	Patraa Jungle	2.17	1.67	0.08	0.31
Total Area (In Ac.)			120.15	118.45	0.20	1.12
Total Area (In Ha.)			48.624	47.936	0.081	0.453

"Certified that status of total land involved in the project (both forest and non-forest) as given in the table above is as per Government records as on 25.10.1980"

AS.

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Record Keeper

TAHASILDAR

HEMGIR

Spull  
Project Officer  
Siarnal GCH



Village - Kulda						
Khata No	Plot No	Kissam	Area as per ROR (In Ac.)	Mining (In Ac.)	Safety Zone (7.5 mtr from Lease Boundary) (In Ac.)	Embankment, OB Zone, Blasting Zone & Others (In Ac.)
32	1	Patra Jungle	0.25			0.25
32	56	Patra Jungle	1.23		0.25	0.98
32	28	Patra Jungle	0.82			0.82
32	32	Patra Jungle	1.24	0.62		0.62
32	34	Patra Jungle	0.15			0.15
32	26	Patra Jungle	0.58			0.58
32	36	Patra Jungle	2.45	1.70		0.75
32	463	Patra Jungle	0.77			0.77
32	42	Jungle	1.24			1.24
32	40	Patra Jungle	5.95	4.92		1.03
32	44	Jungle	3.78			3.78
32	46	Jungle	2.32			2.32
32	48	Patra Jungle	0.52	0.46		0.06
32	54	Patra Jungle	1.23			1.23
22	386	Jungle	0.10			0.1
Total Area (In Ac.)			22.63	7.70	0.25	14.68
Total Area (In Ha.)			9.158	3.116	0.101	5.941

Certified that status of total land involved in the project (both forest and non-forest) as given in the table above is as per Government records as on 25.10.1980

AS

CC

Project Officer  
Siarnal O.C.

Record Keeper

TAHASILDAR  
HEMGIR

Village - Jhupruna						
Khata No	Plot No	Kissam	Area as per ROR (In Ac.)	Mining (In Ac.)	Safety Zone (7.5 mtr from Lease Boundary) (In Ac.)	Embankment, OB Zone, Blasting Zone & Others (In Ac.)
240	363	Jungle	1.32			1.32
238	389	Jungle	2.70			2.70
240	457	Jungle	4.45			4.45
240	460	Jungle	1.41			1.41
240	462	Jungle	1.27			1.27
240	660	Jungle	4.53			4.53
240	676	Jungle	1.05		0.15	0.90
238	668	Gramya Jungle	3.85		0.46	3.39
240	693	Jungle	1.08		0.10	0.98
240	695	Jungle	1.05		0.12	0.93
240	734	Jungle	1.95			1.95
240	750	Jungle	0.36			0.36
240	772	Jungle	0.25		0.13	0.12
238	795	Gramya Jungle	15.00		0.98	14.02
240	801	Jungle	0.27			0.27
238	803	Jungle	3.00			3.00
240	815	Jungle	2.31			2.31
238	880	Gramya Jungle	4.73			4.73
238	885	Gramya Jungle	8.84	0.73		8.11
238	1036	Gramya Jungle	4.00			4.00
240	1203	Jungle	1.27	0.27		1.00
240	1303	Jungle	2.92	2.92		0.00
238	1321	Jungle	3.66	3.66		0.00
240	1349	Jungle	0.65	0.65		0.00
238	1392	Gramya Jungle	14.86			14.86
238	1405	Gramya Jungle	18.30		0.17	18.13
238	1415	Gramya Jungle	2.13			2.13
238	1418	Gramya Jungle	3.65			3.65
238	1423	Gramya Jungle	2.09			2.09
238	1426	Gramya Jungle	6.62			6.62
238	1428	Gramya Jungle	2.71			2.71
240	1435	Jungle	1.62			1.62
238	1440	Gramya Jungle	5.73			5.73
238	1442	Gramya Jungle	2.08			2.08
240	766	Jungle	1.26		0.07	1.19
Total Area (In Ac.)			132.97	8.23	2.18	122.56
Total Area (In Ha.)			53.812	3.331	0.882	49.599

Certified that status of total land involved in the project (both forest and non-forest) as given in the table above is as per Government records as on 25.10.1980

TAHASILDAR  
HEMGIR

Record Keeper

Project  
Slam



Village - Tumulia						
Khata No	Plot No	Kissam	Area as per ROR (In Ac.)	Mining (In Ac.)	Safety Zone (7.5 mtr from Lease Boundary) (In Ac.)	Embankment, OB Zone, Blasting Zone & Others (In Ac.)
260	156	Jungle	0.62		0.09	0.53
260	940	Jungle	10.00			10.00
260	1081	Jungle	2.90	2.90		
260	1090	Jungle	4.95	4.95		
260	1093	Jungle	1.08	1.08		
260	1095	Jungle	1.13	1.13		
260	1097	Jungle	7.72	7.72		
260	1102	Jungle	13.42	13.42		
260	1109	Jungle	0.60	0.60		
260	1115	Jungle	3.54	3.54		
260	1117	Jungle	8.12	8.12		
260	1128	Jungle	0.77	0.77		
260	1131	Jungle	0.92	0.92		
260	1156	Jungle	0.70	0.70		
260	1171	Jungle	16.07	16.07		
260	1182	Jungle	8.30	8.30		
260	1209	Jungle	0.98	0.54		
260	1214	Jungle	3.62	3.62		
260	1218	Jungle	0.80	0.80		
260	1221	Jungle	1.97	1.97		
260	1227	Jungle	4.64	4.64		
260	1235	Jungle	0.71	0.71		
260	1244	Jungle	12.11	12.11		
260	1273	Jungle	0.78	0.78		
260	1276	Jungle	6.78	6.78		
260	1323	Jungle	0.60	0.60		
260	1342	Jungle	1.62	1.62		
260	1348	Jungle	5.20	5.20		
260	1409	Jungle	0.54	0.49		
260	1417	Jungle	0.45	0.45		0.05
260	1425	Jungle	0.12			
258	1430	Gramya Jungle	37.05	35.07		0.12
Total Area (In Ac.)			158.81	145.60	0.09	1.98
Total Area (In Ha.)			64.270	58.924	0.036	5.132

Certified that status of total land involved in the project (both forest and non-forest) as given in the table above is as per Government records as on 25.10.1980

  
Record Keeper

  
TAHASILDAR  
HEMGIR

  
  
Project Officer  
Slamat Officer

**Supplementary Land schedule of Siarmal OCP, Mahalaxmi Area, MCL**

Village	Khata No	Plot No	Kissam	Area as per ROR (In Ac.)	Area Required (In Ac.)	Remarks
Gopalpur	185	361	Nadi	13.12	13.12	Govt.
Gopalpur	185	367	Nadi	29.06	22.47	Govt.
Gopalpur	185	736	Nalla	12.36	12.36	Govt.
Gopalpur	185	748	Nalla	3.14	3.14	Govt.
Gopalpur	185	749	Nalla	2.28	2.28	Govt.
Gopalpur	185	1525	Nadi	5.39	5.39	Govt.
Gopalpur	185	1531	Nadi	2.46	2.46	Govt.
Gopalpur	184	793	GB	0.07	0.07	Govt.
Gopalpur	184	794	GB	0.1	0.1	Govt.
Gopalpur	182	1794	Gochar	0.16	0.16	Govt.
Gopalpur	184	1868	Besa	0.1	0.1	Govt.
Gopalpur	180/225	1355	GB	0.06	0.06	Tenancy
Gopalpur	113	1370	GB	0.38	0.38	Tenancy
Gopalpur	54	1879	G-I	0.33	0.33	Tenancy
Siarmal	53	103	Jungle	9.2	7.99	Forest
Siarmal	53	568	Saala Jungle	0.17	0.09	Forest

Certified that status of total land involved in the project (both forest and non-forest) as given in the table above is as per Government records as on 25.10.1980

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Record Keeper

TAHASILDAR  
HEMGIR

Spall  
Project Officer  
Siarmal OCP

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# INDEX MAP SHOWING FOREST LAND PROPOSED FOR DIVERSION FOR MCL-SIARMAL OCP PROJECT IN SUNDARGARH DISTRICT.



Disclaimer: DGPS Surveyed Coordinates have been generated at pillars/points as shown by Lessee/User Agency on the ground.

General Manager  
Mahasamari Area  
Mahasamari Forest Division

TAHASILDAR  
HEMGI

Sub Divisional Officer  
Ropalpur

Sub Divisional Officer  
Ropalpur

ODISHA SPACE APPLICATIONS CENTRE  
(Dept. of Science & Technology, Govt. of Odisha)  
45/48 (part), Jayadev Vihar,  
Bhubaneswar





OFFICE OF THE COLLECTOR & DISTRICT MAGISTRATE, SUNDARGARH  
(Revenue Section)

No. 6217 VIII-05/2021 / Dt. 14.07.2021

To

The Divisional Forest Officer,  
Sundargarh Forest Division, Sundargarh

Sub: Diversion of forest land measuring an area 349.709 Ha. for non-forest purpose in favour of Siarmal OCP of M/s. MCL, Hemgir.

Ref: This Office letter No. 5411 dt. 28.06.2021

Sir,

With reference to the letter on the subject cited above, I am to furnish herewith the revised certificate regarding compliance of Scheduled Tribes and other traditional forest dwellers (Recognition of forest Right) Act-2006 in respect of diversion of forest land measuring an area 349.709 Ha. for non-forest purpose in favour of Siarmal OCP of MCL in concerned villages Kulda, Gopalpur, Jhupurunga, Siarmal, Tumulia and Ratansara under Hemgir Tahasil for taking further course of action at your end.

Yours faithfully,

Collector, Sundargarh

Memo No. 6218 /Rev. Dt. 14.07.2021

Copy to General Manager, MCL, Basundhara Area for information and necessary action.

Project Officer  
Siarmal OCP

Collector, Sundargarh



FORM NO. II  
( for projects other than linear projects)  
Government of Odisha  
Office of the District Collector, Sundargarh

No. 6216 Dt. 14.07.2021

(REVISED CERTIFICATE)

TO WHOMSOEVER IT MAY CONCERN


In compliance of the Ministry of Environment and Forests (MoEF), Government of India's letter No. 11-9/98-FC(Pt) dt. 3rd August, 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 ('FRA' for short) on the forest land proposed to be diverted for non-forest purposes, it is certified that 349.709 hectares of forest land proposed to be diverted in favour of Siarmal OCP of M/s Mahanadi Coalfields Limited (MCL) for mining purpose in Sundargarh District falls within jurisdiction of village(s) Kulda 9.158 ha., Gopalpur 94.180 ha, Jhupurunga 53.812 ha., Siarmal 79.996 ha., Tumulia 64.091 ha. & Ratansara 48.470 ha. total 349.709 ha. in Hemgir Tehsil.

It is further certified that;

- The complete process for identification and settlement of rights under the FRA has been carried out for the entire 349.709 hectares of forest land proposed for diversion. A copy of records of all consultation and meetings of the Forest Rights Committee(s), Gram Sabha(s), Sub-Division Level Committee(s) and the District Level Committee are enclosed as annexure 1 to annexure 10
- The proposal for such diversion (with full details of the project and its implications, in vernacular/ local language) have been placed before each concerned Gram Sabha of forest-dwellers, who are eligible under the FRA.
- The each of concerned Gram Sabha(s), has certified that all formalities/ processes under the FRA have been carried out, and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any, having understood the purpose and details of proposed diversion. A copy of certificate issued by the gram sabha of villages(s) Kulda, Gopalpur, Jhupurunga, Siarmal, Tumulia & Ratansara is enclosed as annexure 1 to annexure 6.
- The discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50% of the members of Gram Sabha present.
- The diversion of forest land for facilities managed by the Government as required under section 3 (2) of the FRA have been completed and the Grama Sabhas have given their consent to it.
- The rights of Primitive Tribal Groups and pre-Agricultural Communities, where applicable have been specifically safeguarded as per section 3 (1) (e) of the FRA.

Encl.: As above

  
**Project Officer  
Siarmal OCP**

  
Signature  
(Full name and official seal of the District Collector)



## OFFICE OF THE TAHSILDAR, HEMGIR

(Revenue & Disaster Management Deptt., Govt of Odisha)  
e-mail id: tah.hemgiri-od@nic.dot.in. Phone: 06621-287124. PIN: 770013

No. 1043 / Date: 06/07/2021

To  
The Additional District Magistrate,  
Sundargarh

Subject : Proposal for diversion of 349.709 Ha. of Revenue forest kism land of village Kulda, Gopalpur, Jhupurunga, Siarmal, Tumulia & Ratansara under Hemgir Tahsil for Siarmal Opencast Project of M/s.Mahanadi Coalfields Limited, Basundhara Area.

Ref. : Your letter No.472-VIII-05/2021, dated.18.01.2021.

Dear Sir,

With reference to the subject cited above & in continuation of this office letter No.176, dtd.28.01.2021 & 872 dt. 03.06.2021, I am hereby submitting a land schedule of plot no. 1209 of Khata no. 260 of Tumulia Village which has somehow been excluded in the earlier submitted land schedule of Siarmal Project of MCL. The same may please be included for FRA purpose.

Sl.no.	Khata no.	Plot no.	Kisam	Area (Ac)	Area Required (Ac)	Remarks
01.	260	1209	Jungle	0.98	0.54	

The said land is coming under Jungle kism and no one is in possession of the said land and so far no claim has been received.

This is for your kind information and needful action.

Yours faithfully,

Tahsildar  
Hemgir

TAHSILDAR  
HEMGIR

Memo No. 1044 / Date 06/07/2021

Copy submitted to the Sub-Collector, Sadar, Sundargarh for favour of information and necessary action.

Project Officer  
Siarmal OCP

Tahsildar  
Hemgir

TAHSILDAR  
HEMGIR



LAND SCHEDULE OF FOREST LAND PROPOSED FOR DIVERSION							
Sl. No.	Name of the Tehsil	Name of the village	Khata No.	Plot No.	Kisam	Required Area in Ac.	Total required area in Ac. Or Ha.
1	2	3	4	5	6	8	9
1	Hemgir	Kulda	32	1	Patra Jungle	0.25	22.63 or 9.158
2			32	56	Patra Jungle	1.23	
3			32	28	Patra Jungle	0.82	
4			32	32	Patra Jungle	1.24	
5			32	34	Patra Jungle	0.15	
6			32	26	Patra Jungle	0.58	
7			32	36	Patra Jungle	2.45	
8			32	463	Patra Jungle	0.77	
9			32	42	Jungle	1.24	
10			32	40	Patra Jungle	5.95	
11			32	44	Jungle	3.78	
12			32	46	Jungle	2.32	
13			32	48	Patra Jungle	0.52	
14			32	54	Patra Jungle	1.23	
15			22	386	Jungle	0.10	
16	Hemgir	Gopalpur	184	362	Jungle	11.42	232.72 or 94.180
17			184	364	Jungle	1.32	
18			184	705	Jungle	7.38	
19			184	711	Jungle	7.23	
20			183	763	Jungle	5.78	
21			184	773	Jungle	2.35	
22			184	783	Jungle	0.65	
23			184	784	Jungle	2.70	
24			184	954	Jungle	0.22	
25			184	955	Jungle	5.20	
26			184	975	Jungle	4.62	
27			184	982	Jungle	2.62	
28			182	1011	Jungle	12.74	
29			184	1023	Jungle	3.30	
30			184	1066	Jungle	0.50	
31	Hemgir		184	1128	Jungle	10.85	
32			184	1136	Jungle	4.95	
33			184	1193	Jungle	0.72	
34			184	1209	Jungle	0.76	
35			182	1451	Jungle	4.87	
36			184	1459	Jungle	2.18	
37			184	1466	Jungle	1.57	
38			184	1477	Jungle	17.60	
39			184	1485	Jungle	21.65	
40			184	1492	Jungle	2.26	
41			184	1494	Jungle	2.52	
42			184	1498	Jungle	7.90	
43			184	1501	Jungle	12.87	
44			184	1511	Jungle	1.52	

Project Officer  
Siarnal OCP

45						
46						
47			184	1514	Jungle	2.13
48			184	1523	Jungle	5.30
49			184	1526	Jungle	5.40
50			184	1536	Jungle	3.04
51			184	1547	Jungle	2.98
52			184	1549	Jungle	5.00
53			182	1553	Jungle	2.06
54			184	1561	Jungle	2.64
55			184	1568	Jungle	1.28
56			184	1600	Jungle	1.48
57			184	1602	Jungle	2.27
58			184	1613	Jungle	2.00
59			184	1616	Jungle	3.30
60			184	1619	Jungle	3.00
61			182	1621	Jungle	11.37
62			184	1632	Jungle	4.03
63			184	1680	Jungle	0.55
64			184	1689	Jungle	2.24
65			184	1697	Jungle	12.40
66			240	363	Jungle	1.32
67			238	389	Jungle	2.70
68			240	457	Jungle	4.45
69			240	460	Jungle	1.41
70			240	462	Jungle	1.27
71			240	660	Jungle	4.53
72			240	676	Jungle	1.05
73			238	668	Gramya Jungle	3.85
74			240	693	Jungle	1.08
75			240	695	Jungle	1.05
76			240	734	Jungle	1.95
77			240	750	Jungle	0.36
78			240	772	Jungle	0.25
79			238	795	Gramya Jungle	15.00
80			240	801	Jungle	1.27
81			238	803	Jungle	3.00
82			240	815	Jungle	2.31
83			238	880	Gramya Jungle	4.73
84			238	885	Gramya Jungle	8.84
85			238	1036	Gramya Jungle	4.00
86			240	1203p	Jungle	0.27
87			240	1303	Jungle	2.92
88			238	1321	Jungle	3.66
89			240	1349	Jungle	0.65
90			238	1392	Gramya Jungle	14.86
91			238	1405	Gramya Jungle	18.30
92			238	1415	Gramya Jungle	2.13
93			238	1418	Gramya Jungle	3.65
94			238	1423	Gramya Jungle	2.09
			238	1426	Gramya Jungle	6.62
			238	1428	Gramya Jungle	2.71

132.97 or  
53.812

*Agarwal*  
Project Officer  
Siarnal OCP



95			240	1435	Jungle	1.62
96			238	1440	Gramya Jungle	5.73
97			238	1442	Gramya Jungle	2.08
98	Hemgir		240	766	Jungle	1.26
99			51	35	Gramya Jungle	21.75
100			51	37	Gramya Jungle	4.92
101			51	42	Gramya Jungle	11.22
102			51	71	Gramya Jungle	12.65
103			51	97	Gramya Jungle	0.98
104			51	175	Gramya Jungle	2.25
105			51	201	Gramya Jungle	0.10
106			51	203	Saala Jungle	0.50
107			51	671	Saala Jungle	0.27
108			51	694	Saala Jungle	0.14
109			51	695/855	Saala Jungle	0.08
110			51	619/873	Jungle	1.39
111			53	13	Jungle	10.75
112			53	19	Jungle	0.30
113	Hemgir		53	27	Saala Jungle	0.98
114			53	29	Jungle	6.95
115			53	32	Saala Jungle	1.46
116			53	33	Jungle	0.50
117			53	38	Saala Jungle	0.42
118			53	39	Saala Jungle	0.18
119			53	41	Saala Jungle	0.50
120			53	44	Saala Jungle	1.50
121			53	45	Saala Jungle	0.05
122		Slarmal	53	46	Saala Jungle	0.68
123			53	49	Patra Jungle	0.20
124			53	50	Saala Jungle	1.82
125			53	54	Saala Jungle	0.62
126			53	55	Saala Jungle	0.08
127			53	64	Saala Jungle	0.10
128	Hemgir		53	65	Jungle	0.80
129			53	68	Jungle	0.86
130			53	70	Saala Jungle	0.54
131			53	72	Saala Jungle	0.70
132			53	74	Jungle	0.54
133			53	87	Saala Jungle	0.10
134			53	88	Saala Jungle	0.61
135			53	89	Saala Jungle	0.25
136			53	93	Saala Jungle	0.20
137			53	96	Saala Jungle	0.21
138			53	99	Jungle	3.38
139			53	101	Jungle	0.20
140			53	102	Saala Jungle	0.44
141			53	103p	Jungle	7.13
142			53	150	Saala Jungle	0.15
143	Hemgir		53	152	Saala Jungle	0.25
144			53	153	Saala Jungle	0.50

Project Officer  
Slarmal OCP

145		53	154	Saala Jungle	0.46
146		53	155	Saala Jungle	0.09
147		53	158	Saala Jungle	0.27
148		53	159	Saala Jungle	0.37
149		53	160	Saala Jungle	0.03
150		53	171	Saala Jungle	0.05
151	Hemgir	53	172	Saala Jungle	0.88
152		53	177	Saala Jungle	6.14
153		53	178	Saala Jungle	2.28
154		53	179	Saala Jungle	0.08
155		53	181	Saala Jungle	0.94
156		53	182	Saala Jungle	0.30
157		53	187	Saala Jungle	0.62
158		53	188	Saala Jungle	2.12
159		53	190	Jungle	0.40
160		53	191	Saala Jungle	0.13
161		53	192	Jungle	0.30
162		53	193	Patraa Jungle	0.17
163		53	196	Jungle	0.13
164		53	197	Saala Jungle	0.30
165		53	198	Jungle	1.20
166	Hemgir	53	200	Saala Jungle	1.75
167		53	202	Saala Jungle	2.82
168		53	204	Saala Jungle	0.32
169		53	206	Saala Jungle	0.21
170		53	208	Jungle	0.16
171		53	209	Jungle	1.30
172		53	210	Saala Jungle	0.15
173		53	212	Saala Jungle	0.11
174		53	228	Jungle	0.12
175		53	229	Jungle	0.11
176		53	244	Saala Jungle	0.25
177		53	246	Saala Jungle	0.19
178		53	247	Saala Jungle	0.50
179		53	248	Saala Jungle	0.20
180		53	249	Saala Jungle	0.06
181	Hemgir	53	250	Saala Jungle	0.05
182		53	253	Saala Jungle	0.14
183		53	255	Saala Jungle	0.19
184		53	256	Saala Jungle	0.16
185		53	257	Saala Jungle	0.10
186		53	262	Saala Jungle	0.96
187		53	267	Saala Jungle	1.66
188		53	269	Saala Jungle	0.06
189		53	271	Saala Jungle	0.11
190		53	274	Saala Jungle	0.04
191		53	278	Saala Jungle	3.24
192		53	281	Saala Jungle	0.25
193		53	286	Saala Jungle	0.70
194		53	287	Saala Jungle	0.21

Siarmal

*Approved*  
Project Officer  
Siarmal OCP

197.67 or  
79.996



195				
196				
197				
198				
199				
200				
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202				
203	Hemgir			
204				
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207				
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217				
218	Hemgir			
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228				
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231				
232				
233	Hemgir			
234				
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243				
244				

53	301	Jungle	0.11
53	568p	Saala Jungle	0.50
53	570	Jungle	11.87
53	582	Saala Jungle	0.12
53	585	Jungle	0.60
53	587p	Jungle	2.09
53	588p	Jungle	0.29
53	619	Jungle	7.05
53	669	Jungle	13.05
53	670	Saala Jungle	0.21
53	696	Jungle	18.40
53	713	Jungle	0.48
53	717	Saala Jungle	0.25
53	718	Saala Jungle	0.84
53	723	Jungle	1.35
53	724	Saala Jungle	0.13
53	728	Jungle	2.22
53	731	Jungle	1.89
53	786p	Jungle	0.49
53	788P	Jungle	0.44
53	16/819	Saala Jungle	0.05
53	98/821	Saala Jungle	0.65
53	47/830	Saala Jungle	0.04
53	47/831	Saala Jungle	0.10
53	47/832	Saala Jungle	0.08
53	52/833	Saala Jungle	0.15
53	59/834	Saala Jungle	0.14
53	69/835	Saala Jungle	0.05
53	80/837	Saala Jungle	0.07
53	85/839	Saala Jungle	0.05
53	90/840	Saala Jungle	0.12
53	290/848	Saala Jungle	0.12
53	18	Saala Jungle	0.09
260	156	Jungle	0.62
260	940	Jungle	10.00
260	1081	Jungle	2.90
260	1090	Jungle	4.95
260	1093	Jungle	1.08
260	1095	Jungle	1.13
260	1097	Jungle	7.72
260	1102	Jungle	13.42
260	1109	Jungle	0.60
260	1115	Jungle	3.54
260	1117	Jungle	8.12
260	1128	Jungle	0.77
260	1131	Jungle	0.92
260	1156	Jungle	0.70
260	1171	Jungle	16.07
260	1182	Jungle	8.30
260	1209	Jungle	0.54

Project Officer  
Siarmal OCP

158.37 or  
64.091

245	Hemgir	Tumulia	260	1214	Jungle	3.62	
246			260	1218	Jungle	0.80	
247			260	1221	Jungle	1.97	
248			260	1227	Jungle	4.64	
249			260	1235	Jungle	0.71	
250			260	1244	Jungle	12.11	
251			260	1273	Jungle	0.78	
252			260	1276	Jungle	6.78	
253			260	1323	Jungle	0.60	
254			260	1342	Jungle	1.62	
255			260	1348	Jungle	5.20	
256			260	1409	Jungle	0.54	
257			260	1417	Jungle	0.45	
258			260	1425	Jungle	0.12	
259			258	1430	Gramya Jungle	37.05	
260			Ratansara	193	935	Jungle	0.76
261				193	1092	Patra Jungle	3.26
262				193	1094	Patra Jungle	0.91
263				193	1095	Jungle	0.07
264				193	1097	Jungle	2.20
265	191	1143		Sal Jungle	0.08		
266	193	1131		Jungle	2.44		
267	191	1132		Sal Jungle	0.73		
268	193	1140		Patra Jungle	0.32		
269	191	1141		Sal Jungle	0.06		
270	191	1143		Sal Jungle	0.08		
271	193	1144		Patra Jungle	1.07		
272	191	1145		Sal Jungle	0.11		
273	191	1146		Sal Jungle	0.26		
274	193	1148		Patra Jungle	0.36		
275	193	1160		Patra Jungle	0.12		
276	191	1167		Sal Jungle	0.11		
277	191	1198		Sal Jungle	0.47		
278	191	1199		Sal Jungle	0.12		
279	191	1200		Sal Jungle	0.16		
280	191	1201		Sal Jungle	0.58		
281	191	1202		Sal Jungle	0.50		
282	191	1203		Sal Jungle	0.27		
283	191	1204		Gramya Jungle	27.50		
284	193	1206		Patra Jungle	2.33		
285	193	1207		Patra Jungle	0.08		
286	193	1209		Patra Jungle	0.08		
287	Hemgir	193		1210	Patra Jungle	4.56	
288		191		1212	Sal Jungle	0.18	
289		193		1216	Patra Jungle	0.06	
290		193		1217	Patra Jungle	1.75	
291		193		1218	Patra Jungle	0.06	
292		193		1220	Jungle	1.61	
293		193		1222	Jungle	0.11	
294		193		1225	Jungle	6.62	


  
 Project Officer  
 Siarnal OCP

119.77 or  
48.470



295	Heragir	Ratansara	193	1236	Jungle	0.16
296			193	1237	Jungle	0.23
297			191	1238	Sal Jungle	0.12
298			191	1240	Sal Jungle	0.20
299			193	1781	Jungle	5.22
300			193	1782	Jungle	0.26
301			193	1784	Jungle	0.31
302			191	1790	Gramya Jungle	28.82
303			193	1791	Jungle	13.49
304			193	1793	Jungle	0.51
305			191	1795	Bada jungle	0.33
306			193	1796	Jungle	0.05
307			193	1798	Jungle	4.66
308			193	1802	Jungle	0.22
309			193	1835	Jungle	0.13
310			193	1839	Jungle	0.25
311			193	1841	Jungle	0.18
312			193	1865	Jungle	2.77
313			193	1867	Jungle	0.09
314			193	986/2018(Part)	Patra Jungle	1.79
		Total area in Ac.				864.13
		Total area in Ha.				349.709

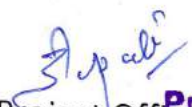
  
**Project Officer**  
**Siarnal OCP**

  
 Signature  
 (Full name and official seal of the District Collector)

Annexure - IX

**UNDERTAKING FOR SUBMISSION OF FRA CERTIFICATE**

It is hereby undertaken that FRA certificate in lieu of the complete forest land of 349.709 Ha, proposed for diversion in respect of Siarmal OCP of Mahanadi Coalfields Limited will be submitted as soon as it is obtained.

  
Project Officer  
Siarmal OCP  
Mahalaxmi Area

Project Officer  
Siarmal OCP



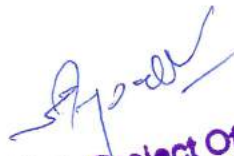


Annexure- X

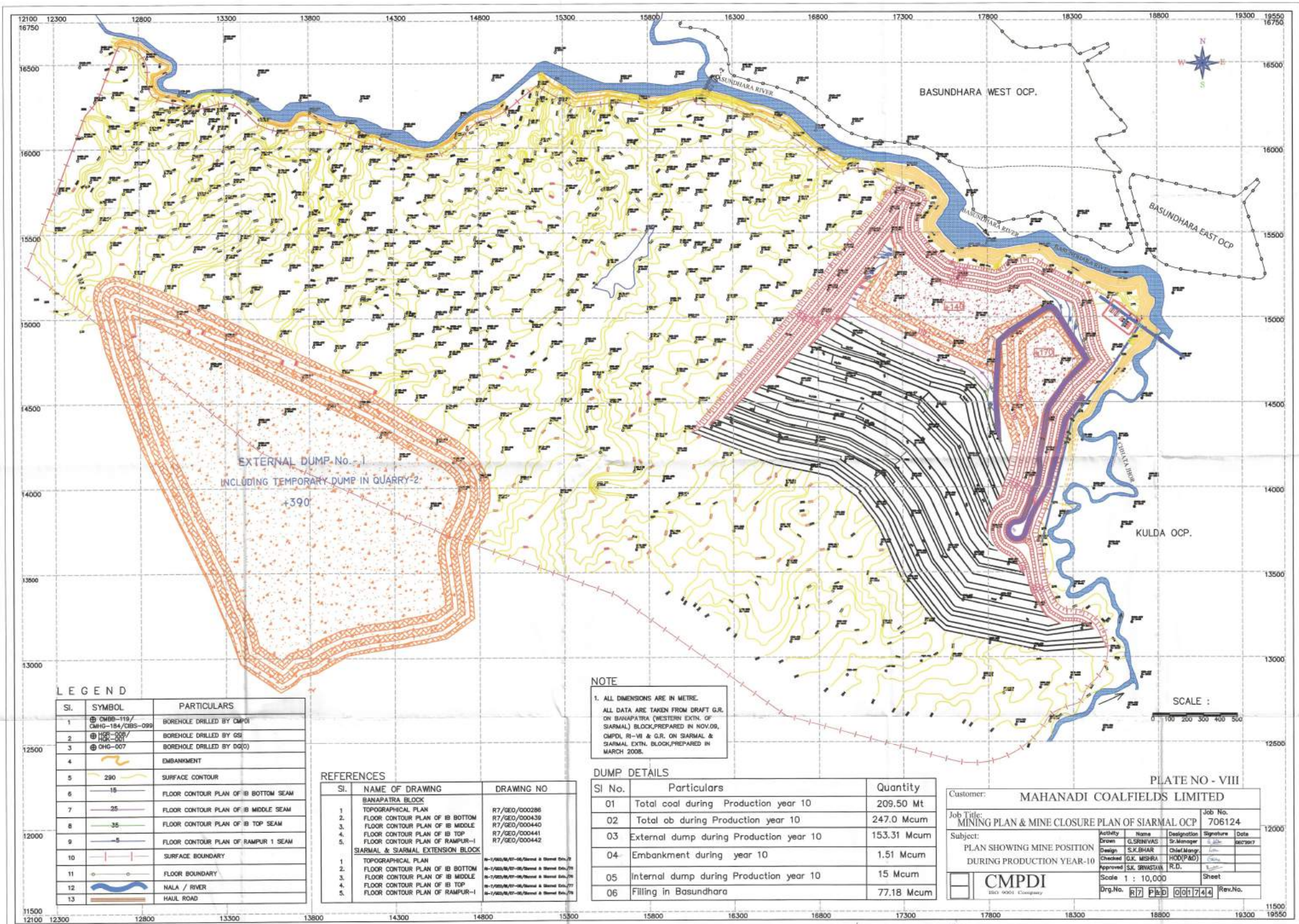
**UNDERTAKING**

We hereby undertake that the process of obtaining Environment Clearance (EC) from MoEF&CC for the project Siarmal OCP of MCL is in progress against application ref.no. : IA/OR/CMIN/24164/2014 , J-11015/230/2014-IA-II (I) the status of which is as mentioned below :

- ToR issued vide letter dtd 09.07.18.
- Public Hearing held on 03.01.2019.
- Final EIA-EMP submitted to MoEF&CC through its portal on 15.02.2019.
- Considered in EAC held on 22.08.2019 & EAC meeting held on 17.08.2020.
- Additional information sought on 11 points .
- Reply likely to be submitted in Aug'21.

  
Project Officer  
Siarmal OCP, Mahalaxmi Area





# LEGEND

Sl.	SYMBOL	PARTICULARS
1	⊕ CMR-119/ CMR-184/CBS-099	BOREHOLE DRILLED BY CMR
2	⊕ HGS-006/ HGS-007	BOREHOLE DRILLED BY GSI
3	⊕ OHG-007	BOREHOLE DRILLED BY DQ(O)
4	—	EMBANKMENT
5	—	SURFACE CONTOUR
6	— 15	FLOOR CONTOUR PLAN OF IB BOTTOM SEAM
7	— 25	FLOOR CONTOUR PLAN OF IB MIDDLE SEAM
8	— 35	FLOOR CONTOUR PLAN OF IB TOP SEAM
9	— 5	FLOOR CONTOUR PLAN OF RAMPUR 1 SEAM
10	—	SURFACE BOUNDARY
11	—	FLOOR BOUNDARY
12	—	NALA / RIVER
13	—	HAUL ROAD

## NOTE

1. ALL DIMENSIONS ARE IN METRE.  
ALL DATA ARE TAKEN FROM DRAFT G.R. ON BANAPATRA (WESTERN EXTN. OF SARMAL) BLOCK, PREPARED IN NOV.08, CMPDI, RI-VI & G.R. ON SARMAL & SARMAL EXTN. BLOCK, PREPARED IN MARCH 2008.

## REFERENCES

Sl.	NAME OF DRAWING	DRAWING NO
1.	BANAPATRA BLOCK	
2.	TOPOGRAPHICAL PLAN	R7/GEO/000286
3.	FLOOR CONTOUR PLAN OF IB BOTTOM	R7/GEO/000439
4.	FLOOR CONTOUR PLAN OF IB MIDDLE	R7/GEO/000440
5.	FLOOR CONTOUR PLAN OF IB TOP	R7/GEO/000441
	FLOOR CONTOUR PLAN OF RAMPUR-I	R7/GEO/000442
	SARMAL & SARMAL EXTENSION BLOCK	
1.	TOPOGRAPHICAL PLAN	R-1/GEO/RI-VI-08/Normal & Special Dwg./78
2.	FLOOR CONTOUR PLAN OF IB BOTTOM	R-1/GEO/RI-VI-08/Normal & Special Dwg./79
3.	FLOOR CONTOUR PLAN OF IB MIDDLE	R-1/GEO/RI-VI-08/Normal & Special Dwg./79
4.	FLOOR CONTOUR PLAN OF IB TOP	R-1/GEO/RI-VI-08/Normal & Special Dwg./79
5.	FLOOR CONTOUR PLAN OF RAMPUR-I	R-1/GEO/RI-VI-08/Normal & Special Dwg./79

## DUMP DETAILS

Sl No.	Particulars	Quantity
01	Total coal during Production year 10	209.50 Mt
02	Total ob during Production year 10	247.0 Mcum
03	External dump during Production year 10	153.31 Mcum
04	Embankment during year 10	1.51 Mcum
05	Internal dump during Production year 10	15 Mcum
06	Filling in Basundhara	77.18 Mcum

SCALE :

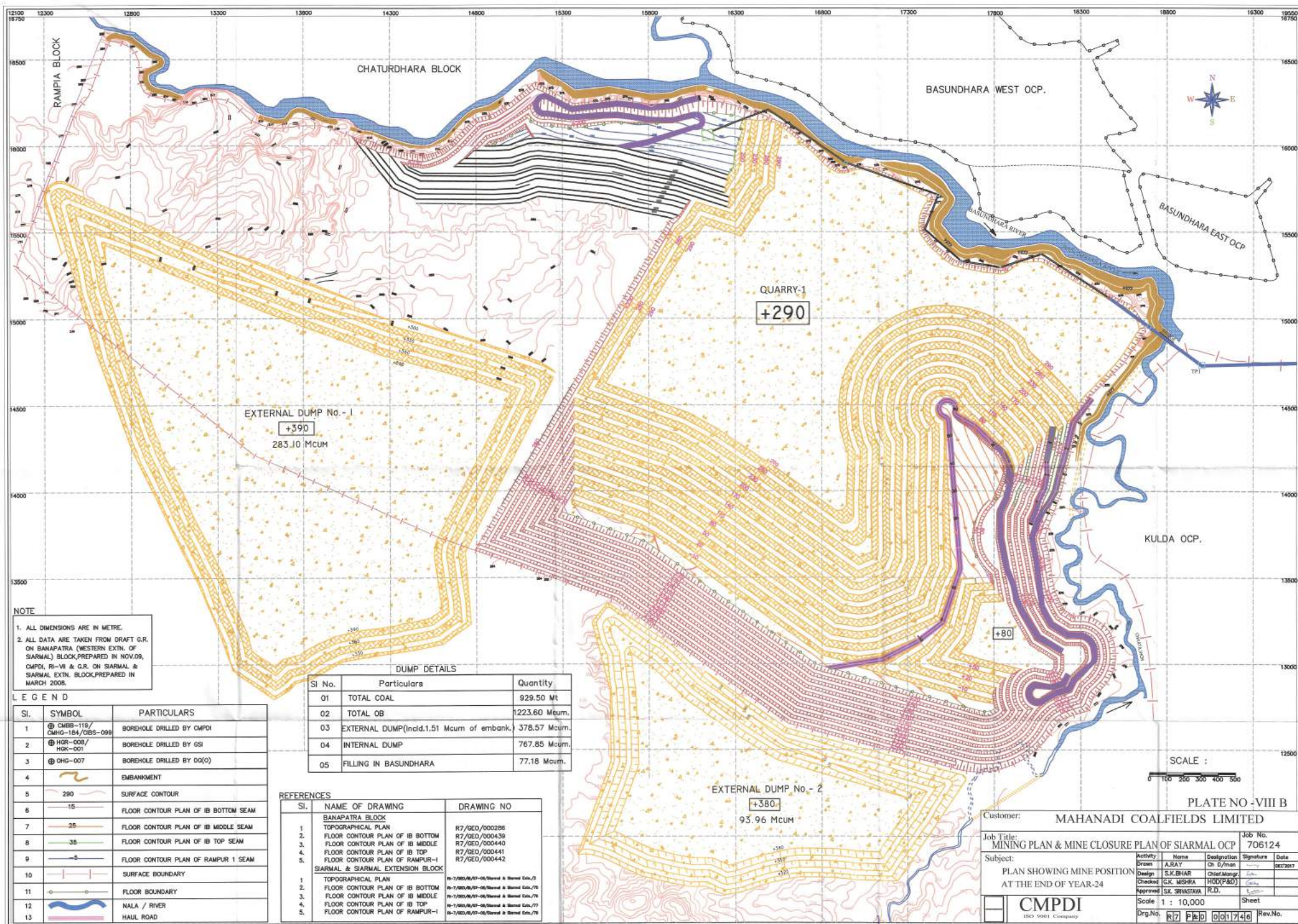
PLATE NO - VIII

Customer: MAHANADI COALFIELDS LIMITED			
Job Title: MINING PLAN & MINE CLOSURE PLAN OF SARMAL OCP		Job No. 706124	
Subject: PLAN SHOWING MINE POSITION DURING PRODUCTION YEAR-10	Authority: G.SRINIVAS	Designation: Sr. Manager	Signature: [Signature]
	Design: S.K.BHAR	Chief Manager	Signature: [Signature]
	Checked: G.K. MISHRA	HOD(P&O)	Signature: [Signature]
	Approved: S.K. SRIVASTAVA	R.D.	Signature: [Signature]
Scale 1 : 10,000		Sheet	
Org.No. R7 P&O 0101744		Rev.No.	

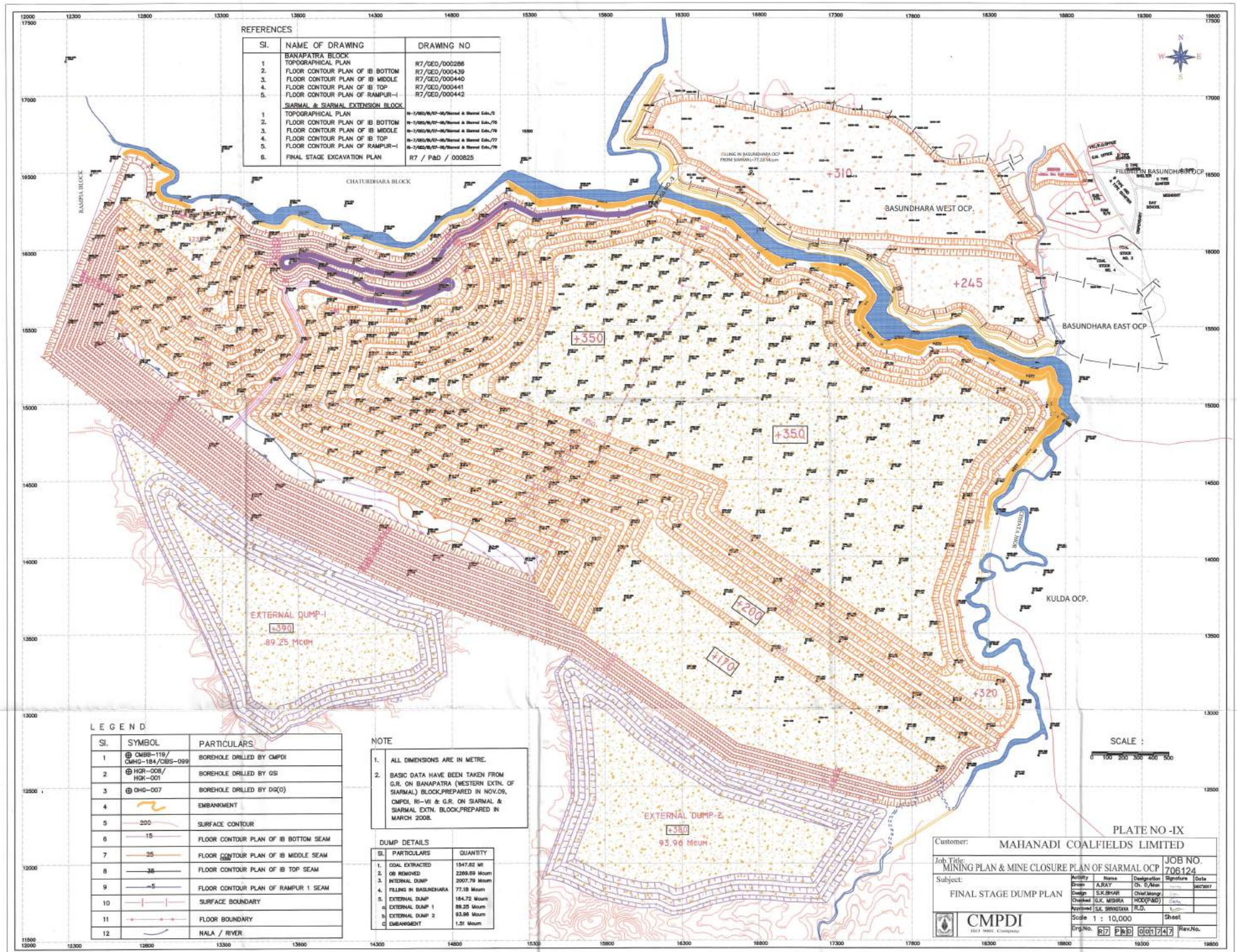
General Manager  
Mahanadi Coal Fields Limited

Project Officer  
Mahanadi Coal Fields Limited









# REFERENCES

Sl.	NAME OF DRAWING	DRAWING NO
1.	BANAPATRA BLOCK TOPOGRAPHICAL PLAN	R7/GE0/000286
2.	FLOOR CONTOUR PLAN OF IB BOTTOM	R7/GE0/000439
3.	FLOOR CONTOUR PLAN OF IB MIDDLE	R7/GE0/000440
4.	FLOOR CONTOUR PLAN OF IB TOP	R7/GE0/000441
5.	FLOOR CONTOUR PLAN OF RAMPUR-I	R7/GE0/000442
<b>SIARNAL &amp; SIARNAL EXTENSION BLOCK</b>		
1.	TOPOGRAPHICAL PLAN	R-1/80/R/01-06/Normal & Special Edn./7
2.	FLOOR CONTOUR PLAN OF IB BOTTOM	R-1/80/R/01-06/Normal & Special Edn./7b
3.	FLOOR CONTOUR PLAN OF IB MIDDLE	R-1/80/R/01-06/Normal & Special Edn./7b
4.	FLOOR CONTOUR PLAN OF IB TOP	R-1/80/R/01-06/Normal & Special Edn./7b
5.	FLOOR CONTOUR PLAN OF RAMPUR-I	R-1/80/R/01-06/Normal & Special Edn./7b
6.	FINAL STAGE EXCAVATION PLAN	R7 / P&D / 000625

## LEGEND

Sl.	SYMBOL	PARTICULARS
1.	⊕ CMBB-119/CMHG-184/CBS-099	BOREHOLE DRILLED BY CMPDI
2.	⊕ HGR-006/HGR-001	BOREHOLE DRILLED BY GS
3.	⊕ OHG-007	BOREHOLE DRILLED BY DG(O)
4.	—	EMBANKMENT
5.	— 200	SURFACE CONTOUR
6.	— 15	FLOOR CONTOUR PLAN OF IB BOTTOM SEAM
7.	— 25	FLOOR CONTOUR PLAN OF IB MIDDLE SEAM
8.	— 35	FLOOR CONTOUR PLAN OF IB TOP SEAM
9.	— 5	FLOOR CONTOUR PLAN OF RAMPUR 1 SEAM
10.	—	SURFACE BOUNDARY
11.	—	FLOOR BOUNDARY
12.	—	NALA / RIVER

## NOTE

- ALL DIMENSIONS ARE IN METRE.
- BASIC DATA HAVE BEEN TAKEN FROM G.R. ON BANAPATRA (WESTERN EXTN. OF SIARNAL) BLOCK PREPARED IN NOV.09, CMPDI, R-VI & G.R. ON SIARNAL & SIARNAL EXTN. BLOCK PREPARED IN MARCH 2008.

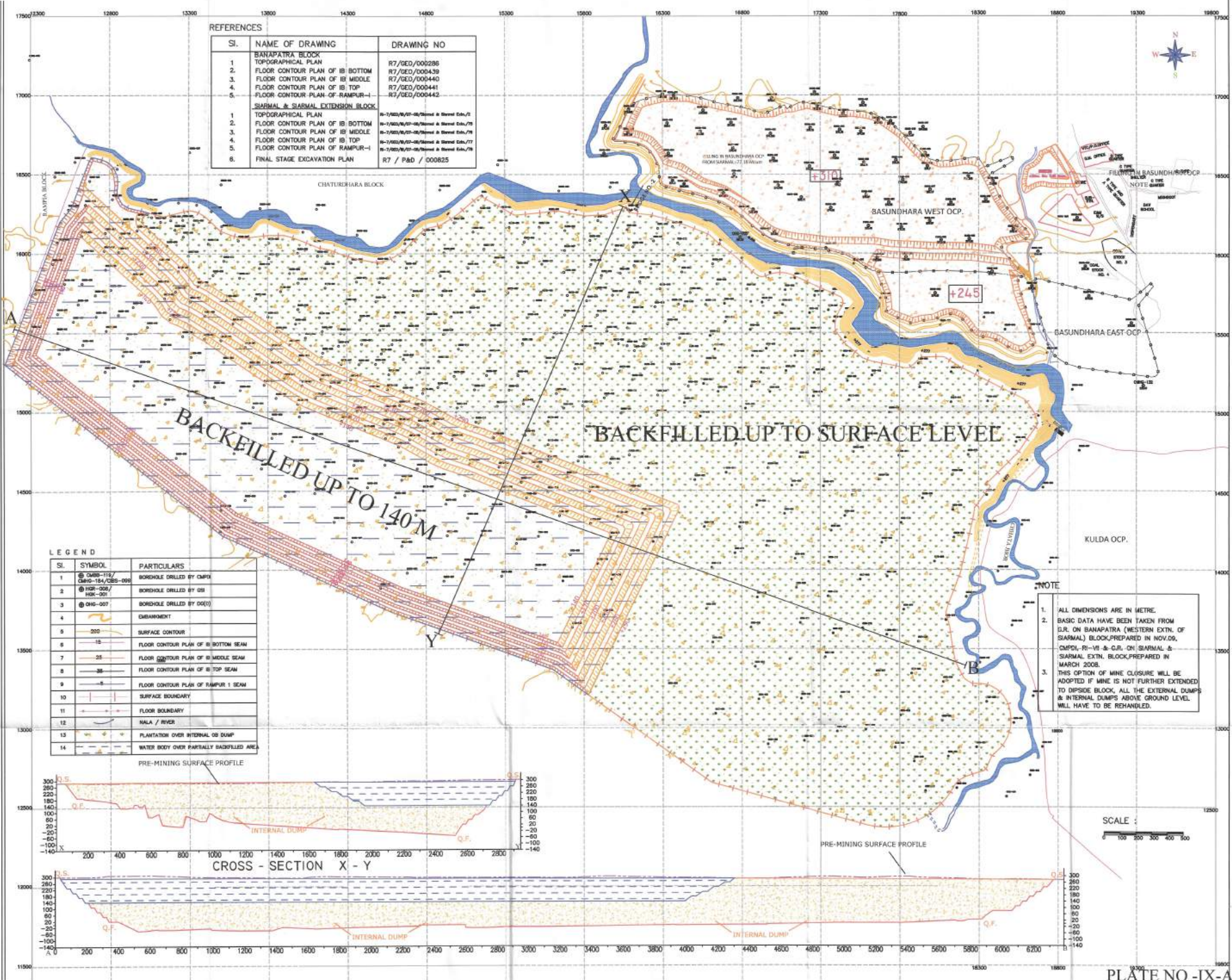
## DUMP DETAILS

Sl.	PARTICULARS	QUANTITY
1.	COAL EXTRACTED	1547.82 Mt
2.	OR REMOVED	2269.59 Moun
3.	INTERNAL DUMP	2007.79 Moun
4.	FILLING IN BASUNDHARA	77.18 Moun
5.	EXTERNAL DUMP	184.72 Moun
6.	EXTERNAL DUMP 1	86.35 Moun
7.	EXTERNAL DUMP 2	93.96 Moun
8.	EMBANKMENT	1.51 Moun

PLATE NO-IX

Customer: MAHANADI COALFIELDS LIMITED		JOB NO. 706124	
Job Title: MINING PLAN & MINE CLOSURE PLAN OF SIARNAL OCP		Date: 01/11/2009	
Subject: FINAL STAGE DUMP PLAN		Sheet: 1 of 1	
Scale: 1 : 10,000		Rev.No. 001/147	
<p>CMPDI Coalfields Company</p>		<p>Activity: Design Drawn: S.K.BHAR Checked: S.K. BHAR Approved: S.K. BHAR Scale: 1 : 10,000 Sheet: 1 of 1 Rev.No. 001/147</p>	





REFERENCES

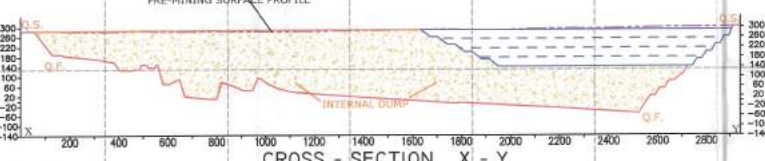
Sl.	NAME OF DRAWING	DRAWING NO
1.	BANAPATRA BLOCK TOPOGRAPHICAL PLAN	R7/GE0/000286
2.	FLOOR CONTOUR PLAN OF IB BOTTOM	R7/GE0/000439
3.	FLOOR CONTOUR PLAN OF IB MIDDLE	R7/GE0/000440
4.	FLOOR CONTOUR PLAN OF IB TOP	R7/GE0/000441
5.	FLOOR CONTOUR PLAN OF RAMPUR-I	R7/GE0/000442
1.	SARMAL & SARMAL EXTENSION BLOCK TOPOGRAPHICAL PLAN	B-1/GE0/01-02/01/01 & Sarmal Extn./76
2.	FLOOR CONTOUR PLAN OF IB BOTTOM	B-1/GE0/01-02/01/01 & Sarmal Extn./76
3.	FLOOR CONTOUR PLAN OF IB MIDDLE	B-1/GE0/01-02/01/01 & Sarmal Extn./76
4.	FLOOR CONTOUR PLAN OF IB TOP	B-1/GE0/01-02/01/01 & Sarmal Extn./76
5.	FLOOR CONTOUR PLAN OF RAMPUR-1	B-1/GE0/01-02/01/01 & Sarmal Extn./76
6.	FINAL STAGE EXCAVATION PLAN	R7 / P&D / 000825

LEGEND

Sl.	SYMBOL	PARTICULARS
1.	CHD-116/CHD-154/CHD-099	BORHOLE DRILLED BY CMPI
2.	HCR-006/HCR-001	BORHOLE DRILLED BY OSI
3.	CHD-007	BORHOLE DRILLED BY DDO(S)
4.		EMBANKMENT
5.	300	SURFACE CONTOUR
6.	15	FLOOR CONTOUR PLAN OF IB BOTTOM SEAM
7.	35	FLOOR CONTOUR PLAN OF IB MIDDLE SEAM
8.	35	FLOOR CONTOUR PLAN OF IB TOP SEAM
9.	5	FLOOR CONTOUR PLAN OF RAMPUR-1 SEAM
10.		SURFACE BOUNDARY
11.		FLOOR BOUNDARY
12.		NALA / RIVER
13.		PLANTATION OVER INTERNAL O/D DUMP
14.		WATER BODY OVER PARTIALLY BACKFILLED AREA

NOTE

1. ALL DIMENSIONS ARE IN METRE.
2. BASIC DATA HAVE BEEN TAKEN FROM S.P. ON BANAPATRA (WESTERN EXTN. OF SARMAL) BLOCK, PREPARED IN NOV.08, SARMAL-RI-VI & G.R. ON SARMAL & SARMAL EXTN. BLOCK, PREPARED IN MARCH 2008.
3. THIS OPTION OF MINE CLOSURE WILL BE ADOPTED IF MINE IS NOT FURTHER EXTENDED TO DIPSIDE BLOCK, ALL THE EXTERNAL DUMPS & INTERNAL DUMPS ABOVE GROUND LEVEL WILL HAVE TO BE REHANDLED.



CROSS - SECTION X - Y

