

**Letter No:** OCPL/313

**Date:** 07-05-2016

To  
The Member Secretary,  
State Pollution Control Board, Odisha  
Paribesh Bhawan, A/118  
Nilakantha Nagar, Unit-VIII  
Bhubaneswar-751012

**Sub:** Submission of Annual Environmental Statement in Form -V for the year 2015-2016 of M/s. Odisha Coal & Power Ltd

**Ref:** Environment Clearance transferred in favour of OCPL vide Letter No:J-11015/139/2008-IA-II(M) dated.30.12.2015.

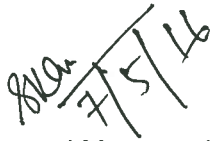
Sir,

Please find enclosed the Annual Environmental Statement in Form -V for the financial year 2015-2016 for Manoharpur Coal Mine Project of M/s. Odisha Coal & Power Ltd. (Clearance Letter No. : J-11015/ 139/ 2008- IA -II (M) dated.30.12.2015) situated at Village Manoharpur, Tehsil: Hemgir, IB Valley Coal Field in Sundargarh District, Odisha.

This is for your kind information.

Thanking you.

Yours faithfully,



Dy. General Manager (Mechanical)

**Encl:** As above.

**Copy to:** The Joint Director (s)  
Regional Office, Eastern Region  
Ministry of Environment & Forest and Climate Change  
A-3, Chandrasekharpur  
Bhubaneswar

**ENVIRONMENTAL STATEMENT  
IN FORM-V  
(Under Rule-14, Environmental protection Rules, 1986)  
(2015-2016)**

**FOR  
Manoharpur Opencast Coal Mine Project of  
Odisha Coal & Power Limited**



**OCPL**

**Odisha  
Coal and  
Power  
Limited**

Odisha Coal and Power Limited,  
Zone-A, Ground Floor, Fortune Tower,  
Chandrasekharpur, Bhubaneswar-751023, Odisha

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## EXECUTIVE SUMMARY

- E-1 Odisha Coal and Power Limited (OCPL) is a company incorporated under the Companies Act 2013, India. OCPL is a Government company as defined by Section 2(45) of the Companies Act, 2013, which was formed as a joint venture Company of Odisha Power Generation Corporation Limited (OPGC) and Odisha Hydro Power Corporation Limited (OHPC), with a shareholding pattern of 51% and 49% respectively. OCPL has been allocated with two coal blocks, namely Manoharpur and Dip-side of Manoharpur by Ministry of Coal, Government of India. The coal blocks are located in IB Valley Area in Sundargarh District, Odisha.
- E-2 In compliance with the Environment (Protection) Rules, 1986, Environmental statement of Manoharpur Opencast Coal Mine Project for the FY 2015-2016 has been prepared. This report is prepared with a view to fulfil the statutory obligations laid down by Ministry of Environment, Forests and Climate Change (MoEF &CC).
- E-3 The Environmental Monitoring as per the guideline of MoEF &CC has not started as the project is yet to be implemented.

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**CHAPTER – I**  
**INTRODUCTION**

**1.1. GENESIS:**

The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V is mandated to be submitted by the Project Proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 and as amended subsequently, and shall also be uploaded in the Company's web-site along with the compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF &CC by E-mail.

In compliance with the above, the work of Environmental Statement ending with 31<sup>st</sup> March, 2016 in Form-V for Manoharpur Opencast Coal Mine Project of OCPL has been prepared.

**1.2. COAL BLOCK/ PROJECT DESCRIPTION:**

OCPL has been allocated with two coal blocks, namely Manoharpur and Dip-side of Manoharpur by Ministry of Coal, Government of India. The coal blocks are located in IB Valley Coal Field in Sundargarh District, Odisha. Manoharpur and Dip side of Manoharpur blocks are contiguous blocks having a common boundary. Manoharpur block is fully explored and Dip side of Manoharpur block is regionally explored. The extractable coal reserve from Manoharpur is around 155 MT. Dip side of Manoharpur is an unexplored block and spreads over an area of 676Ha. The indicated coal reserve Dip-side Manoharpur is around 350 MT. The ultimate depth of the mine will be around 214m. The coal reserve quantitatively & qualitatively is to be established by detailed exploration, which is currently going on and expected to be completed shortly.

OCPL plans to mine the Manoharpur Coal Block by shovel Dumper combination for OB removal & surface miner for coal production. There is a plan to have IPCC (In Pit Crushing & conveying) system as a future technology upgradation.



### **1.2.1. COMMUNICATION:**

Manoharpur block is about 45km away from Sundargarh along Sundargarh-Hemgir road which passes near the block. It is also connected by black top road with two important towns of Odisha viz. Rourkela (145km) and Jharsuguda (75km). The nearest railway station is Hemgir, lying on the Mumbai-Howrah main line and is about 20 km. away from Manoharpur Block.

### **1.3. ENVIRONMENTAL SCENARIO:**

The Environmental monitoring will be carried out quarterly as per guideline of Ministry of Environment and Forests & Climate Change (MOEF &CC) after the start of mining operations. Accordingly, Ambient Air Quality and Noise levels will be monitored at four stations along with the Mine Discharge Water quality and Ground / Drinking Water quality. Ground water levels in designated dug wells will also be monitored.

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**CHAPTER – II**

**ENVIRONMENTAL STATEMENT**

**FORM – V**

Environmental Statement for the financial year ending March, 2016

**PART – A**

**a. NAME AND ADDRESS OF THE OWNER/ OCCUPIER**

Name : Dr. Kshirod Chandra Brahma, Chief Executive Officer

Address : -

Place : Manoharpur Opencast Coal Mine Project

Tahasil : Hemgir

District : Sundargarh

State : Odisha

b. INDUSTRY CATEGORY : Primary

c. PRODUCTION CAPACITY : 8 MTY

d. YEAR OF ESTABLISHMENT : Yet to Start operation

e. DATE OF THE LAST ENVIRONMENTAL STATEMENT SUBMITTED : Submitting for the second time



**PART – B**  
**WATER AND RAW MATERIAL CONSUMPTION**

**(I) WATER CONSUMPTION (Cu. m/day):**

		<b>During Current financial year (2015-2016)</b>
<b>A.</b>	<b>MINING</b>	NIL The mine has not yet commenced operation
i.	Dust suppression	
ii.	Fire fighting	
iii.	Workshop	
iv.	Others (service building etc.)	
<b>B.</b>	<b>COOLING</b>	
<b>C.</b>	<b>DOMESTIC</b>	
i.	Colony	
ii.	Others (service building etc.)	
	<b>TOTAL</b>	

**WATER CONSUMPTION PER UNIT OF PRODUCT**

<b>Name of product</b>	<b>Water consumption per unit of product</b>
	<b>During current financial year (2015-2016)</b>
ROM Coal	NIL The mine has not yet commenced operation

Note- Only for Production Purpose

**(II) RAW MATERIAL CONSUMPTION:**

<b>Sl.</b>	<b>Name of raw material</b>	<b>Name of products</b>	<b>Consumption of raw material (per unit of output)</b>
			<b>During current FY (2015-2016)</b>
1.	Explosive	Coal and OB	NIL The mine has not yet commenced operation
2.	Diesel		
3.	Lubricants		

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**PART – C**

**POLLUTION GENERATED**

<b>Pollution</b>	<b>Quantity of pollution generated</b>	<b>Percentage variation from prescribed standards with reasons</b>
<b>WATER</b>	NIL The mine has not yet commenced operation	NIL The mine has not yet commenced operation
<b>AIR</b>	NIL The mine has not yet commenced operation	NIL The mine has not yet commenced operation

**PART – D**

**HAZARDOUS WASTE**

**(As specified under Hazardous waste management and handling Rules, 1989)**

	<b>Hazardous waste</b>	<b>Total quantity</b>
		<b>During current financial year (2015-2016)</b>
A.	From process i)Used oil ii)Automobile batteries	NIL
B.	From pollution control facilities	The mine has not yet commenced operation

**PART – E**

**SOLID WASTE**

<b>Sl</b>	<b>Particulars</b>	<b>Total quantity (In Million Cu.m)</b>
		<b>During current financial year (2015-2016)</b>
a.	From process (Mining)	NIL The mine has not yet commenced operation
b.	From pollution control facilities	
c.	Quantity recycled or reutilized	



## **PART – F**

**PLEASE SPECIFY THE CHARACTERISTICS (IN TERMS OF CONCENTRATION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTE AND INDICATE THE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTE.**

NIL

The mine has not yet commenced operation. No Hazardous waste likely to be produced from Mining operation. Overburden produced during the mining will be used in backfilling of the quarry as a reclamation process.

## **PART – G**

**IMPACT OF POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON COST OF PRODUCTION**

In order to carry out mining in an eco-friendly manner the following pollution control measures will be implemented.

### **1. AIR POLLUTION CONTROL MEASURES:**

The following measures will be taken to control air pollution.

- i) Water sprinkling will be done on haul roads and coal transportation roads with the help of water sprinklers.
- ii) Regular sprinkling of water at coal transfer and loading points.

### **2. WATER POLLUTION CONTROL MEASURES:**

The following measures will be taken to control water pollution from mine:

- i) Most of the parameters of mine water conform to General Standard of MOEF & CC for Class- A effluent as mentioned earlier. The mine water will be discharged to Nala after passing through the settling tank.
- ii) Some portions of mine water will be also used for different purposes in dust suppression and for industrial use after passing it through slow sand filtration plant.



- iii) Sewerage Treatment Plant (STP), septic tanks & soak pits will be provided appropriately in residential quarters of mine colony.

### **3. NOISE POLLUTION CONTROL MEASURES:**

The following measures will be taken to control noise pollution from mine:

- i) Regular maintenance of machines and other equipment at workshop.
- ii) Providing green belt around core activity area, along road side in colony and in other vacant space.

### **4. LAND DEGRADATION CONTROL MEASURES**

Overburden will be backfilled in the de-coaled area and adequate plantation measures will be taken up, land will be restored as per approved mine closure plan.

## **PART – H**

### **ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION**

OCPL will do the necessary investment as per the Environment Management Plan and Environment Clearance issued by MoEF &CC.

## **PART – I**

### **ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION AND ABATEMENT OF POLLUTION**

The Environmental Monitoring will be carried out quarterly by OCPL as per the guideline of MoEF &CC and based on the result there of, company will take necessary action if needed.

