ENVIRONMENTAL STATEMENT

(FORM – V)

Under Rule-14 of Environment Protection Rules, 1986 and amendment 1993
of

MANOHARPUR OPENCAST COAL MINE PROJECT

For the year 2013-14

Odisha Power Generation Corporation Ltd.

Odisha power Generation Corporation Ltd, Zone-A, 7th Floor,
Fortune Towers, Bhubaneswar – 751023, Odisha,
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FORM - V

ENVIRONMENT STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending the 31st March 2014

PART – A

i.	Name and address of the owner/occupier of the industry operation or process.	Dr. Kshirod Chandra Brahma General Manager (Mines) Manoharpur Opencast Coal Mine Project P.O Durubaga, Dist Sundargarh
ii.	Industry category Primary(STC code) Secondary(SIC Code)	Primary (Coal Mining Operation)
iii.	Production capacity	8.00 Mty
iv.	Year of establishment	Not in Operation now.
v.	Date of the last environmental statement submitted	Submitting for the first time

PART – B
Water and Raw Material Consumption

i. Water consumption kl/day:

1.	Industrial / Mining	Consumption in kl/day
a.	Water required for dust suppression and other industrial premesis.	NIL The mine has not yet commenced operation.
b.	Fire fighting	
c.	Workshop	
d.	Others (Road watering, Floor washing, Green Belt)	
2.	Domestic	
3.	Coal washery	
4.	Loss and wastage	

Name of Products	Process water consumption per unit of product output
Coal	Nil The mine has not yet been in operation

ii. Raw Material Consumption

Name of raw materials	Unit	Consumption of raw material per tonne of coal produced	
		during the previous financial	during the current financial
H S Diesel petrol	Lit/tonne	Nil The mine has not yet been in operation.	
Lubricant	Lit/tonne		
Petrol	Lit/tonne		
Electricity	Units/tonne		
Explosives	Kg/tonne		

PART - C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

1) Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)			Percentage of variation from prescribed standards with reasons
		Mine Effluents	OGT Outlet	STP Outlet	
a. Water(Annual Average)					
• TSS	-	Nil			-
• BOD					
• COD					
• pH					
• O&G					
b. Air (Ambient air quality of one station-Annual average)					
• NO_X	-	Nil			-
• PM2.5					
• PM10					
• SO2					

PART – D
Hazardous Wastes

(As specified under Hazardous Waste Management and Handling Rules, 1989)

Hazardous Wastes	Total Quantity (Kg.)	
	During the previous financial Year	During the current Financial year
a) From process (Burnt oil recovered from workshop) b) From pollution control facilities. (Oil recovery for oil & grease trap and oily sludge)	Nil	Nil

PART – E
Solid Wastes (Other than Hazardous)

Solid Wastes	Total Quantity (Kg.)	
	During the previous Financial Year	During the current Financial year
a) From process (Top soil and overburden)	Nil	
b) From pollution control facilities. (STP & Sedimentation pond)	Nil	
c) Quantity recycled or reutilized within the unit. (OB Backfilled)	Nil	

PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

i. Hazardous Waste

Name of Hazardous Waste	Quantity Generated	Disposal Practices
Burnt Oil (from Workshop)	NIL	-
Oil and Grease (from ETP/ OGT)	NIL	-
Oily Sludge (from ETP / OTG)	NIL	-
Battery (nos)	NIL	-

ii. Solid Waste

Solid Waste	Quantity Generated	Disposal Practices
Top Soil (m^3)	NIL	-
OB (m^3)	NIL	-
STP and Sedimentation Pond Sludge	NIL	-

iii. Land Reclamation & OB Disposal

Sl No.	Details	Area (Ha)	Volume/No. of Plants
1.	External OB dump	NIL	-
2.	Excavated Land	NIL	-
3.	Land affected (1+2)	NIL	-
4.	Backfilled (out of 2)	NIL	-
5.	Land physically reclaimed (out of 3)	NIL	-
6.	Land biologically reclaimed (out of 3)	NIL	-

PART – G

Impact of the pollution abatement measures taken on conservation of Natural resources and on the cost of production.

In order to carry out mining in an eco friendly manner detailed Environmental management Plan (EMP) has been prepared.
The pollution control measures suggested in EMP will be implemented.

Air Pollution control Measures

Sl No	EMP Provisions	Whether provided or not	Remarks
1.	Watering and grading of all roads to minimize air-borne dust from vehicles	NIL	The mine has not yet been in operation
2.	Biological reclamation of land	NIL	
3.	Green belt around mine & infrastructure	NIL	
4.	Drills fitted with dust control devices	NIL	
5.	Dust suppression/dust extraction system to be provided in CHP	NIL	
6.	Improved maintenance of plant & machinery	NIL	
7.	Mechanized coal transportation system	NIL	

Water Pollution Control Measures

Sl No	EMP Provisions	Whether provided or not	Remarks
1.	Mine Water is to be collected in a sump on. This will act as sedimentation lagoon.	-	The mine has not yet been in operation
2.	Run off (OB dump) and coal stock rainfall run off will be collected in a settling pond.	-	
3.	Domestic waste water will be treated. Sanitary waste to be disposed off into septic tank & soak pit.	-	
4.	Workshop effluents will be treated in oil & grease trap & sedimentation tank.	-	

Land Reclamation

Sl No	EMP Provisions	Whether provided or not	Remarks
1.	**Top soil Management**: Proper stripping, storage and Relocation of top soil.	-	The mine has not yet been in operation
2.	**Physical Reclamation of OB Dump:** proper reshaping and regarding of top surface. Providing drainage arrangement and top soil spreading for external and internal dumps.	-	
3.	**Biological Reclamation:** Plantation of suitable species of herbs, shrubs & indigenous trees over technically reclaimed dumps.	-	

PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

Head wise	Amount Rs.	
Plantation	NIL	Mine has not yet been in operation
Dust Suppression	NIL	
Environmental Monitoring	NIL	
ETP/STP operation & Maintaining	NIL	
Cleaning	NIL	
Physical Reclamation	NIL	
Total	NIL	

PART – I

Any other particulars for improving the quality of the environment.