

Bharat Coking Coal Limited  
( A Subsidiary of Coal India Limited)  
Office of the Project Officer  
P. B. Project Colliery

Ref. No. PBPC/PO/Environment/2012/ 1799

6<sup>th</sup> Dec'12  
20

To  
The Director(S),  
Ministry of Environment & Forests,  
Govt. of India, Eastern Regional Center,  
A/3, Chandra Sekharpur  
**Bhubaneswar – 751023.**

Sub: **Submission of half-yearly progress/compliance report of EMP of P. B. Project Colliery.**

Ref: **MOEF letter No. J-11015 / 18 / 89-IA-I dated 10<sup>th</sup> August'1990 of Scientist S.E.**

Dear Sir,

Progress report of the EMP for the last 06 (Six) months up to the Dec 2012 is given below :-

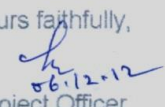
| Sl.No. | Conditions                                                                                                                                                                                                                             | Implementation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | The rehabilitation of the persons to be displaced due to this Project would be carried out on the basis of a comprehensive Rehabilitation Plan to be formulated as per the package approved by the Central Government                  | Rehabilitation is not required due to de-rating of the Project to 0.68. MTY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2.     | Reclamation of the subsided area would be carried out as per the action plan incorporated in the Environmental Management Plan (EMP)                                                                                                   | Presently there is no subsidence on the mine out Area. However P. B. Project Colliery has got several plantations Areas. There is adequate green cover in and around P. B. project Colliery. This year also there is programme for departmental plantation.                                                                                                                                                                                                                                                                                                                                                                  |
| 3      | The mine water samples shall be regularly analyzed for different parameters, especially for Total Suspended Solids (TSS). In case the TSS exceeds the prescribed limits, adequate measures for treating the mine water shall be taken. | Water analysis is being done at regular interval. Report of water analysis is enclosed for reference. TSS value are well below the tolerance limits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4      | All other pollution control measures listed in the EMP would be strictly implemented as per schedule.                                                                                                                                  | All other pollution control measures listed in the EMP are strictly being implemented as per schedule:-<br>i. Water sprinkling on all transportation roads are being done<br>ii. Tree plantation and creation of green belts in mining areas are being done<br>iii. Black topping of coal transportation roads has been done already.<br>iv. Covering of coal transportation has been implemented.<br>v. Mine water is being settled in mine sump. After settling sump water is pumped out and utilized for dust separation. Excess water is made available for the nearby tank and surrounding population for domestic use. |

|   |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                            |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                                                                                                                                                                                                             | vi. Septic tank and sock pits have been provided for treating waste water from township.<br>vii. Proper maintenance of Machines are being done to reduce noise pollution.<br>viii. Massive plantation has been done in the mining areas, vacant places, township, road side and around industrial complex through state forest Department. |
| 5 | A periodic progress report regarding implementation of the control measures shall be submitted to this Ministry every three months                                                                                                          | Periodical progress report regarding implementation of the control measures is being submitted to the ministry every six months.                                                                                                                                                                                                           |
| 6 | The effluent quality will confirm to the standards prescribed by the Central/State Pollution Board / Under Environment (Protection) Act, 1986. Sufficient number of air and water quality monitoring stations will be set up.               | Effluent quality confirms the standard prescribed by state / central pollution control board. Sufficient No. of air and water quality monitoring station have been set up.                                                                                                                                                                 |
| 7 | Regular monitoring of various environmental quality parameters would be carried out by the Project authorities and the results of the monitoring would also be included in the six monthly progress report to be submitted to this Ministry | Regular monitoring of various environmental quality parameters are being carried out by Project authorities and the result of the monitoring are being included in six monthly progressive report to be submitted to the Ministry.                                                                                                         |
| 8 | The Project will have an Environmental Cell for monitoring quality of water, air, solid waste, greening and other action plans for protection of environment.                                                                               | The Project is having an environmental Cell for monitoring quality of water, air, solid waste greening and other action plans for protection of environment.                                                                                                                                                                               |
| 9 | Adequate financial provision shall be made in the Project for implementation of environmental management programme (EMP) prepared by CMPDI for BCCL and submitted to us.                                                                    | Adequate financial provision has been made in the Project for implementation of environmental management programme.                                                                                                                                                                                                                        |

Environment monitoring : Organizational Chart is enclosed herewith.

This is for your kind information and necessary action please.

Yours faithfully,

  
06.12.12  
Project Officer  
P. B. Project Colliery  
BCCL, P. B. Area  
PO: Kusunda  
Dhanbad, ( Jharkhand)

**c.c.to:-**

1. CGM(Env.), BCCL, Koyla Bhawan
2. GM, P. B. Area – for kind information
3. Nodal Officer (Envr.), P. B. Area
4. Secretary, Ministry of Environment & Forests, CCO Complex, Lodi Road, New Delhi
5. Advisor of Coal, Shastri Nagar, New Delhi – 110003
6. Regional Officer, JSPCB, HIG-1, Housing Colony, Bartand, Dhanbad.



7

**ENVIRONMENTAL MANAGEMENT DEPARTMENT (EMP CELL)  
ORGANISATION, P. B. PROJECT COLLIERY**

**GENERAL MANAGER  
SRI J. P. GUPTA**

**PROJECT OFFICER,  
SRI P. KUMAR**

**MANAGEMENT &  
MONITORING CELL,  
SRI S. B. SINGH,  
SUBODINATE ENGINEER**

**REHABILITATION  
(NOT REQUIRED)**

**RECLAMATION ,  
SRI S. B. SINGH,  
SUBODINATE ENGINEER**

**FIRE DEALING  
SRI R. K. SINGH,  
ASSTT. FOREMAN**

**NOISE/AIR/WATER  
SRI R.K.SINGH,  
ASSTT.FOREMAN**

**AFFORESTATION  
SRI S. B. SINGH,  
SUBODINATE ENGINEER**

**PLANTATION INCHARGE,  
SRI S. B.. SINGH,  
SUBODINATE ENGINEER**



**BHARAT COKING COAL LIMITED**  
(A Subsidiary of Coal India Ltd.)  
ENVIRONMENTAL LABORATORY  
JAGJIWAN NAGAR  
DHANBAD



RefNo. Env/Lab/Water/12/ 382

28-Apr-12

To,  
The Project Officer  
Colliery P.B. Project  
Area - P.B.

Sub: Water Analysis Report

Sir,  
Enclosed herewith please find the Water Analysis Report of your colliery of the sample collected  
on 04-Apr-12

Location:  
Date Of Collection:

Mine Water, 452 mtr  
04-Apr-12

| Sl.No. | PARAMETERS                  | Unit     | Results | Limiting Value as per IS-2490<br>(Industrial Effluent) |
|--------|-----------------------------|----------|---------|--------------------------------------------------------|
| 1      | Temperature                 | °C       | 26.8    | 40                                                     |
| 2      | pH                          |          | 7.5     | 5.5 - 9.0                                              |
| 3      | Specific Conductance@ 25 °C | µmhos/cm | 897     | Not Applicable                                         |
| 4      | Total Suspended Solids      | mg/l     | 15      | Not more than 100                                      |
| 5      | Chloride as Cl              | mg/l     | 47.1    | Not more than 1000                                     |
| 6      | Hardness as CO <sub>3</sub> | mg/l     | 424     | Not Applicable                                         |

Chemist/Sr. Chemist

Sr. Manager(Env.)

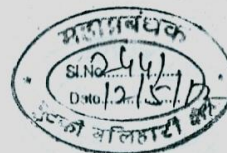
Copy: 1. G.M.(Env.)  
2. Area Manager Planning/Nodal Officer(Environment), P.B.  
3. Laboratory Copy

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**BHARAT COKING COAL LIMITED**  
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ENVIRONMENTAL LABORATORY  
JAGJIWAN NAGAR  
DHANBAD



RefNo. Env/Lab/Water/12/ 382

28-Apr-12

To,  
The Project Officer  
Colliery P.B.Project  
Area - P.B.

Sub: Water Analysis Report

Sir,

Enclosed herewith please find the Water Analysis Report of your colliery of the sample collected on 04-Apr-12

Location: Mine Water from 352 Meter  
Date Of Collection: 04-Apr-12

| Sl.No. | PARAMETERS                  | Unit     | Results | Limiting Value as per IS-2490<br>(Industrial Effluent) |
|--------|-----------------------------|----------|---------|--------------------------------------------------------|
| 1      | Temperature                 | °C       | 26.8    | 40                                                     |
| 2      | pH                          |          | 8.5     | 5.5 - 9.0                                              |
| 3      | Specific Conductance@ 25 °C | µmhos/cm | 804     | Not Applicable                                         |
| 4      | Total Suspended Solids      | mg/l     | 15      | Not more than 100                                      |
| 5      | Chloride as Cl              | mg/l     | 50.9    | Not more than 1000                                     |
| 6      | Hardness as CO <sub>3</sub> | mg/l     | 380     | Not Applicable                                         |

Chemist/Sr.Chemist

Sr. Manager(Env.)

Copy: 1. G.M.(Env.)

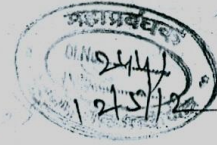
2. Area Manager Planning/Nodal Officer(Environment), P.B.

3. Laboratory Copy





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JAGJIWAN NAGAR  
DHANBAD



Ref.No. Env/Lab/Water/12/ 382

28-Apr-12

To,  
The Project Officer  
Colliery South Balihari  
Area - P.B.

Sub: Water Analysis Report

Sir,

Enclosed herewith please find the Water Analysis Report of your colliery of the sample collected on 06-Apr-12

Location: Mine Water from #11/12 Seam  
Date Of Collection: 06-Apr-12

| Sl.No. | PARAMETERS                  | Unit     | Results | Limiting Value as per IS-2490<br>(Industrial Effluent) |
|--------|-----------------------------|----------|---------|--------------------------------------------------------|
| 1      | Temperature                 | °C       | 26      | 40                                                     |
| 2      | pH                          |          | 8.3     | 5.5 - 9.0                                              |
| 3      | Specific Conductance@ 25 °C | µmhos/cm | 502     | Not Applicable                                         |
| 4      | Total Suspended Solids      | mg/l     | 10      | Not more than 100                                      |
| 5      | Chloride as Cl              | mg/l     | 26.4    | Not more than 1000                                     |
| 6      | Hardness as CO <sub>3</sub> | mg/l     | 182     | Not Applicable                                         |

Chemist/Sr.Chemist

Sr. Manager(Env.)

Copy: 1. G.M.(Env.)

2. Area Manager Planning/Nodal Officer(Environment), P.B.

3. Laboratory Copy



BCCL

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## BHARAT COKING COAL LIMITED

(A Subsidiary of Coal India Ltd.)  
ENVIRONMENTAL LABORATORY  
JAGJIVAN NAGAR  
DHANBAD

Ref No. Env/Lab/Air/12/ 383

Dated: 02-May-12

To,  
The Project Officer  
Colliery/Project - P.B. Project  
Area - P.B.

Sub: Ambient Air Analysis Report

Sir,

Enclosed herewith please find the Ambient Air Analysis Report of your colliery of the sample collected & monitored on : 03-Apr-12

Location: Near Project Office

| DATE                             | PERIOD              | Hrs. | RPM<br>(-10 micron)<br>µg/m <sup>3</sup> | SPM<br>(+10 micron)<br>µg/m <sup>3</sup> | TSPM<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>µg/m <sup>3</sup> | NOx<br>µg/m <sup>3</sup> | Wea-<br>ther | Wind-<br>Direction |
|----------------------------------|---------------------|------|------------------------------------------|------------------------------------------|---------------------------|--------------------------------------|--------------------------|--------------|--------------------|
| 03-Apr-12<br>to<br>04-Apr-12     | 12:45pm-<br>12:20pm | 23.0 | 352.6                                    | 378.5                                    | 731.1                     | 43.6                                 | 41.6                     | Clear        | West to<br>East    |
| LIMITING<br>VALUE AS PER<br>CPCB | -                   | -    | 300                                      | -                                        | 700                       | 120                                  | 120                      | -            | -                  |

Chemist/Sr.Chemist

Sr.Manager(Env)

Copy: 1. G.M.(Env.)  
Area Manager Planning/Nodal Officer (Environment),  
3. Laboratory Copy

P.B.

Area

RPM as well as TSPM level is very high. Project Officer is requested to take necessary action in this regard to control pollution level. An ATR in this regard should be sent to G.M.(Env.)



BCCL

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**BHARAT COKING COAL LIMITED**  
(A Subsidiary of Coal India Ltd.)  
ENVIRONMENTAL LABORATORY  
JAGJIWAN NAGAR  
DHANBAD

Ref No.

Env/Lab/Air/12/383

Dated: 02-May-12

To,  
The Project Officer  
Colliery/Project - South Balihari  
Area - P.B.

Sub: Ambient Air Analysis Report

Sir,  
Enclosed herewith please find the Ambient Air Analysis Report of your colliery of the sample collected & monitored on : 06-Apr-12

Location: Near Sub Station

| DATE                             | PERIOD              | Hrs  | RPM<br>(-10 micron)<br>µg/m <sup>3</sup> | SPM<br>(+10 micron)<br>µg/m <sup>3</sup> | TSPM<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>µg/m <sup>3</sup> | NO <sub>x</sub><br>µg/m <sup>3</sup> | Weather | Wind-<br>Direction |
|----------------------------------|---------------------|------|------------------------------------------|------------------------------------------|---------------------------|--------------------------------------|--------------------------------------|---------|--------------------|
| 06-Apr-12<br>to<br>07-Apr-12     | 11.35am-<br>11.45am | 23.0 | 221.4                                    | 172.1                                    | 393.5                     | 31.6                                 | 32.6                                 | Clear   | West to<br>East    |
| LIMITING<br>VALUE AS PER<br>CPCB |                     | -    | 300                                      | -                                        | 700                       | 120                                  | 120                                  | -       | -                  |

Chemist/Sr.Chemist

Sr.Manager(Env)

Copy:

1. G.M.(Env.)
2. Area Manager Planning/Nodal Officer (Environment),
3. Laboratory Copy

P.B.

Area



9916659