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Form-I For PIPARWAR OCP

Application for one time 25% increase in capacity as per guidelines issued by MoEF vide letter number J-11015/30/2004-IA.II(M) dated 19.12.2012 within existing mining operation & lease area under clause 7(ii) of EIA Notification, 2006.

Lease Area (Ha)		Capacity (MTPA)			
Existing	Proposed	Normative		Peak	
		Existing	Proposed	Existing	Proposed
1120.25	1120.25	10.00	12.50	11.50	14.50

(Piparwar Area)
Central Coalfields Limited
(February, 2013)

Prepared at
Regional Institute – III
Central Mine Planning & Design Institute Ltd.
(A Subsidiary of Coal India Ltd.)
Gondwana Place, Kanke Road
Ranchi-834008, Jharkhand

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10	A copy of earlier Form-I and Summary EIA & EMP for inclusion of 11.5 MTPA peak capacity.	IX	-Do-
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FORM-I

(I) Basic Information

1	Name of the project	Piparwar OCP (12.50 MTPA normative capacity & 14.50 MTPA peak capacity), Piparwar Area, Central Coalfields Limited within the existing lease area of 1120.25 Ha.					
	Salient Features	<p>Piparwar OCP is an existing coal mining project in Piparwar Area of Central Coalfields Limited.</p> <p>Environmental clearance for Piparwar OCP was earlier granted vide letter No.J-11015/186/2007-IA.II(M) dated 11.06.2007 for expansion in normative production capacity from 6.5 MTPA to 10.0 MTPA without increase in lease area.</p> <p>The introduction of peak capacity @ 11.5 MTPA was granted vide letter No.J-11015/240/2011- IA. II(M) dt. 28.02.2012 without increase in lease area. Refer Annexure-I & II for copies of previous environmental clearance & forestry clearance respectively.</p> <p>The present proposal is being submitted for one time 25% increase in capacity as per guideline issued by MoEF vide letter number J-11015/30/2004- IA. II(M) dated 19.12.2012. The targeted normative capacity is 12.50 MTPA & peak capacity is 14.50 MTPA. No increase in lease area is proposed. Refer Annexure-III for the guideline.</p> <p>The infrastructure of the mine shall remain the same and higher production is proposed through better utilization of resources. Refer Annexure-IV for CCL Board Approval for Piparwar OCP.</p>					
2	S. No. in the schedule	1 (a)					
3	Proposed capacity/ area/length/tonnage to be handled/ command area/ lease area / number of wells to be drilled	Lease Area (Ha)		Capacity (MTPA)			
		Existing	Proposed	Normative		Peak	
		1120.25	1120.25	Existing	Proposed	Existing	Proposed
		10.00	12.50	11.50	14.50		
4	New / Expansion / Modernization	Expansion					
5	Existing Capacity/Area etc	10.0 MTPA normative capacity & 11.50 MTPA peak capacity within the existing lease area of 1120.25 Ha.					
6	Category of Project. i.e 'A' or 'B'	A					



Piparwar OCP (12.50 MTPA normative capacity & 14.50 MTPA peak capacity)
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7	Does it attract the general condition? If yes, Please specify	No
8	Does it attract the specific condition? If yes, Please specify	No
9	Location	
	Plot / Survey / Khasra No	Piparwar
	Villages	Piparwar
	Tehsil	Tandwa
	District	Chatra
	State	Jharkhand
10	Nearest railway station / airport along with distance in kms.	The nearest Railway Station 'Ray', on Gomoh- Dehrion-Sone loop line of Eastern Railway is located at 10 Km. The nearest airport is at Ranchi at 80 Kms accesable through metalled road via Khalari.
11	Nearest Town, city, District Headquarters along with distance in kms.	The nearest town is Khalari at a distance of about 10 Kms and district town is at Chatra at about 50 Kms towards through SH-7.
12	Village Panchayats Zilla Parishad Municipal Corporation, Local body (complete postal Addresses with telephone nos. to be given)	Kalyanpur Panchayat Post- Bachra, Dist.-Chatra, State- Jharkhand, PIN-829201
13	Name of the applicant	Project Officer Piparwar OCP, Piparwar Area, CCL
14	Registered Address	Project Officer Piparwar OCP, Piparwar Area, CCL Post- Bachra, Dist.-Chatra, State- Jharkhand, PIN-829201
15	Address for correspondence:	
	Name	Alok Kumar
	Designation (Owner / Partner / CEO)	Deputy General Manager (Env & Forest),
	Address	Central Coalfields Limited, Darbhanga House, PO- Ranchi, Dist- Ranchi, Jharkhand.



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Piparwar Area, Central Coalfields Limited

	Pin Code	834001
	E-mail	envccl@yahoo.com And cclforest@yahoo.com
	Telephone No.	0651-2360184
	Fax No.	0651-2360010
16	Details of Alternative Sites examined, if any. Location of these sites should be shown on a toposheet	Not Applicable. Coal mining project is site specific depending on favourable geo-mining conditions. Reserve proving operations have been completed and it is an existing project which started coal production from 1989-90.
17	Interlinked Projects	Nil
18	Whether separate application of interlinked Project has been submitted	Not Applicable
19	If yes, date of submission	Not Applicable
20	If no, reason	Not Applicable
21	Whether proposal involves approval / clearance under 1. The Forest (Conservation) Act, 1980 2. The Wildlife (Protection) Act, 1972 3. The CRZ Notification, 1991	Yes No No
22	Whether there is any Government Order/ Policy relevant/relating to the site	No
23	Forest land involved (hectares)	The total forest land in the lease area of 186.50 Ha has been diverted for mining. The clearance has been given vide letter nos; a) 8-172/89-FC, dated 2/12/1992, b) 8-172/89-FC, dated 3/1/1995, c) 8-48/98-FC, dated 21/09/2001, d) 8-54/2003-FC, dated 13/01/2004



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		Refer Annexure-II for copies of previous forestry clearance letters for 186.50 Ha of forest land.
24	Whether there is any litigation pending against the project and/or land in which the project is proposed to be set up? (a) Name of the Court (b) Case No. (c) Orders / directions of the Court, if any, and its relevance with the proposed project	No

Screening Category:

Screening is not applicable. This is a Category-A project.

Capacity corresponding to sectoral activity (such as production capacity for manufacturing, mining lease area and production capacity for mineral production, area for mineral exploration, length for linear transport infrastructure, generation capacity for power generation etc.,)



(II) Activity

1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	No	No Change for peak capacity.
1.2	Clearance of existing land, vegetation and buildings?	No	No Change for peak capacity.
1.3	Creation of new land uses?	No	No Change for peak capacity.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	No Change for peak capacity.
1.5	Construction works?	No	No Change for peak capacity.
1.6	Demolition works?	No	No Change for peak capacity.
1.7	Temporary sites used for construction works or housing of construction workers?	No	No Change for peak capacity.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	No	No Change for peak capacity.
1.9	Underground works including mining or tunneling?	No	Not applicable.
1.10	Reclamation works?	No	No Change for peak capacity.
1.11	Dredging?	No	Not applicable.
1.12	Offshore structures?	No	Not applicable.
1.13	Production and manufacturing processes?	Yes	Coal Production by opencast method as per already approved EC, only peak capacity of 25



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			% to be added.
1.14	Facilities for storage of goods or materials?	Yes	Already available. No change is required for peak capacity.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	Already available. No change required because of peak capacity. <u>Status:</u> The disposal of OB material by backfilling is already being done and very good reclamation work has been done in the backfilled reclaimed areas. The total backfilled area is 238 Ha which has been successfully planted. Till date 5.56 lakhs trees has been planted on backfilled area.
1.16	Facilities for long term housing of operational workers?	Yes	This is an existing approved project with colony outside core zone. No change is required for peak capacity.
1.17	New road, rail or sea traffic during construction or operation?	No	Not required for peak capacity.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	No new infrastructure is required for peak capacity other than given in the earlier Piparwar OCP which has already got environmental clearance. All infrastructure already exists except Piparwar Railway loading system along with Railway tracks & siding. Piparwar Railway loading system along with Railway tracks & siding is already under advance stage of completion and is likely to be completed by 2013-14.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	Not applicable.
1.20	New or diverted transmission lines or pipelines?	No	Not applicable.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	Not applicable.
1.22	Stream crossings?	No	Not applicable.



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1.23	Abstraction or transfers of water form ground or surface waters?	No	Not applicable.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	No change for peak capacity.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	No	No change for peak capacity.
1.26	Long-term dismantling or decommissioning or restoration works?	Yes	<p>Mine closure Plan shall be prepared.</p> <p>The closure activities form an integral part of mine. The residential quarters along with dispensary, sub-stations, pump house, filtration plant for providing basic amenities to workers will be maintained till the employees are required to stay.</p> <p>Service & infrastructural buildings namely, coal handling arrangement, workshop, stores, office building etc will be demolished, if redundant, after mine closure and all useable items will be shifted to area store. When a residential building is vacated, the same will be demolished to prevent any unauthorized occupation.</p>
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	Yes	Already covered in the existing EMP. Solid waste generated during demolition of service and residential buildings after cessation of industrial activity will have an impact on the environment. Care will be taken to dump the solid waste in mine voids.
1.28	Influx of people to an area in either temporarily or permanently?	Yes	This is an existing mine. Influx of people has taken place due to direct and indirect employment opportunities. This will continue throughout the life of the mine.
1.29	Introduction of alien species?	No	Not applicable.
1.30	Loss of native species or genetic diversity?	No	Not applicable.
1.31	Any other actions?	No	Not applicable.



2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

S.No.	Information/checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	No	No change for peak capacity.
2.2	Water (expected source & competing users) unit: KLD	No	No change for peak capacity.
2.3	Minerals (MT)	No	Not Applicable.
2.4	Construction material, stone, aggregates and soil (expected source – MT)	No	No change for peak capacity.
2.5	Forests and timber (source – MT)	No	Not Applicable
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	No	No change for peak capacity.
2.7	Any other natural resources (use appropriate standard units)	No	Not Applicable



3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	No	Not Applicable.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Not Applicable.
3.3	Affect the welfare of people e.g. by changing living conditions?	No	Not Applicable.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	Not Applicable.
3.5	Any other causes	No	Not Applicable.

4. Production of solid wastes during construction or operation or decommissioning (MT/month):

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	No	No change for peak capacity.
4.2	Municipal waste (domestic and or commercial wastes)	No	No change for peak capacity.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	No change for peak capacity.



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4.4	Other industrial process wastes	No	Not applicable
4.5	Surplus product	No	Not applicable
4.6	Sewage sludge or other sludge from effluent treatment	No	No change for peak capacity.
4.7	Construction or demolition wastes	No	No change for peak capacity.
4.8	Redundant machinery or equipment	No	No change for peak capacity.
4.9	Contaminated soils or other materials	No	Not applicable
4.10	Agricultural wastes	No	Not applicable
4.11	Other solid wastes	No	Not applicable

5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	No	No change for peak capacity.
5.2	Emissions from production processes	No	No change for peak capacity.
5.3	Emissions from materials handling including storage or transport	No	No change for peak capacity.
5.4	Emissions from construction activities including plant and equipment	No	Not required in the additional land area.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	No	Not applicable



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5.6	Emissions from incineration of waste	No	Not applicable
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Not applicable
5.8	Emissions from any other sources	No	Not applicable

6. Generation of Noise and Vibration, and Emissions of Light and Heat:

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	No	No change for peak capacity.
6.2	From industrial or similar processes	No	No change for peak capacity.
6.3	From construction or demolition	No	No change for peak capacity.
6.4	From blasting or piling	No	No change for peak capacity.
6.5	From construction or operational traffic	No	No change for peak capacity.
6.6	From lighting or cooling systems	No	Not applicable
6.7	From any other sources	No	Not applicable

7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	Not applicable
7.2	From discharge of sewage or other effluents to water	No	No change for peak capacity.



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	or the land (expected mode and place of discharge)		
7.3	By deposition of pollutants emitted to air into the land or into water	No	No change for peak capacity.
7.4	From any other sources	No	Not applicable
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	Not applicable

8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment:

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	No	No change for peak capacity.
8.2	From any other causes	No	No change for peak capacity.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	No change for peak capacity.

9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality:

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
9.1	Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:	No	No change for peak capacity.



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	<ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • housing development • extractive industries • supply industries • other 		
9.2	Lead to after-use of the site, which could have an impact on the environment	No	No change for peak capacity.
9.3	Set a precedent for later developments	No	No change for peak capacity.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	No change for peak capacity.

(III) Environmental Sensitivity

S. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	None	Not applicable
2	Areas which are important or sensitive for ecological reasons -Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	None	Not applicable
3	Areas used by protected, important or sensitive species of flora or fauna for	None	Not applicable



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	breeding, nesting, foraging, resting, over wintering, migration		
4	Inland, coastal, marine or underground waters	None	Not applicable
5	State, National boundaries	None	Not applicable
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	None	Not applicable
7	Defence installations	None	Not applicable
8	Densely populated or built-up area	None	Not applicable
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	None	Not applicable
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	None	Not applicable
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	None	Not applicable
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	None	Not applicable



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I hereby give the undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any, to the project will be revoked at our risk and cost.

Signature of the applicant with full name, official seal &
address

Project Officer
Piparwar OCP, Piparwar Area, CCL
Post- Bachra
Dist.-Chatra, State- Jharkhand, PIN-829201



No.J-11015/186/2007-IA.II(M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
C.G.O.Complex, Lodi Road,
New Delhi -110003.

Dated: 11th June 2007

To
General Manager (Env. & F),
M/s Central Coalfields Ltd.,
Darbhanga House,
RANCHI - 834001.

Sub: Piparwar Opencast Coal Mine Project (from 6.5 MTPA to 10 MTPA) of M/s Central Coalfields Ltd. located in villages Mangardaha, Benti, Kichto, Bahera, Kanuada, Rajdhar, Kalyanpur, Karo, and Bijain, in Tehsil Tandwa, District Chatra, Jharkand - Environmental Clearance - reg.

Sir,

This has reference to letter No. 43011/05/2007 dated 15.01.2007 forwarding your application on the above-mentioned subject. The Ministry of Environment & Forests has considered your application. It has been noted that the **application is for expansion in production of coal in the Piparwar Opencast Coalmine project from 6.5 million tonnes per annum (MTPA) to 10 MTPA rated capacity. The total mine lease area is 1120.25 ha of which 163.6 ha is agricultural land, 186.5 ha is forestland, 490.80 ha is wasteland and 279.35 ha is settlements. A township is located at a distance of 10km from ML. Forestry clearance has been applied for. There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 10 km buffer zone. No endangered flora and fauna were reported in the study area. Of the total lease area, area for excavation is 540 ha, 25 ha is for OB dumps, 316.9 area for infrastructure which includes admn. buildings, workshop, CHP, roads, 182.35 ha is safety zone. The project involves modification of the natural drainage through construction of embankment along River Damodar and along Safi nala. for protection against flood. R&R for the Project involving 451 PAPs has been completed. A coal washery is located within the ML. The expansion of annual rated capacity of the mine is from 6.5 MTPA to 10 MTPA by opencast mining. Mineral transportation of 27400 TPD of coal is by road using about 1500 vehicles to nearby railhead at a distance of 8km. Ultimate working depth of the mine is 110m below ground level (bgl. Present working depth is 70m bgl. Water table is in the range of 3-12 m bgl in pre-monsoon and 1-6 m bgl in the post monsoon. Mining has intersected water table. Average water requirement is 7644 m³/d, which will be met from mine pit water (3000 m³/d) and water accumulated in abandoned pits (5000 m³/d). Of this, 2200 m³/d is for coal washery. No groundwater will be used. An estimated 209 Mm³ of OB will be generated in life of mine of which about 129 Mm³ has been already accumulated and 80 Mm³ would be generated over the balance life of mine An estimated 93 % of the accumulated OB and the entire OB to be generate din the balance life of min would be backfilled. OB has been dumped in one external dump of 90m max. height of 3 benches of 30m each. Life of the mine at the rated capacity is 13years. Public Hearing was held on 19.05.2006. NOC has been obtained on 29.01.2007. Project approval has been obtained on 09.09.2006. Capital cost of the project is **Rs. 775.91 crores.****

2. The Ministry of Environment & Forests hereby accords environmental clearance for the above-mentioned **Piparwar Opencast Coal Mine Project of M/s Central Coalfields Ltd. for production of coal at 10 MTPA rated capacity over a lease area of 1120.25 ha** under the provisions of the under Section 12 of the Environmental Impact Assessment Notification, 2006 and subsequent amendments thereto and under Para 2.1.1 of MOEF Circular dated 13.10.2006 subject to the compliance of the terms and conditions mentioned below:

A. Specific Conditions

- (i) No mining operations shall be undertaken in the forestland until forestry clearance has been obtained under the provisions of FC Act, 1980.
- (ii) Mining shall be carried out as per statuette at a safe distance from the Damodar River/Safi nala flowing adjacent to the lease boundary.
- (iii) The bund/embankment constructed alongside Damodar River/Safi nala shall be at least 3m higher than highest flood level, based on past data, so as to guard against mine inundation. The slope of the embankment shall be at least 2:1 towards the ML and the embankment stabilised with plantation.
- (iv) Topsoil, if any, should be stacked properly with proper slope at earmarked site(s) and should not be kept active and shall be used for reclamation and development of green belt.
- (v) No additional OB shall be dumped on the existing OB dump. The new OB generated shall be concurrently backfilled in the decoaled area. The already accumulated OB has been stacked at earmarked one external OB dumpsite(s) within ML of a maximum height of 90m and consisting of 3 benches of 30m each. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsite shall continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional office located at Bhubaneswar on a yearly basis.
- (vi) Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilised for watering the mine area, roads, green belt development, etc. The drains should be regularly desilted and maintained properly.
Garland drains (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also be provided adequate retention period to allow proper settling of silt material.
- (vii) Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.
- (viii) High efficiency bag filters/water sprinkling system should be provided to check fugitive emissions from the workshop, conveyor system, haulage roads, transfer points, etc.

- (ix) Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded. The road used for transportation to railway head shall be metal topped.
- (x) Railway siding under construction with Raid Loading System to replace transportation of coal by road, shall be constructed in a time bound manner and have adequate arrangements for dust suppression.
- (xi) Drills should be wet operated.
- (xii) Controlled blasting for OC operations should be practiced only during daytime with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.
- (xiii) Area brought under afforestation shall not be less than 976 ha and shall include reclaimed external OB dump, backfilled area, along ML boundary, along roads and green belt (426 ha) within the lease area by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.
- (xiv) A Progressive Closure Plan shall be implemented by reclamation of quarry area of 540 ha of which shall be backfilled, stabilised and afforested by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. The balance decoladed void of 15 ha being converted into a water body shall be gently sloped and the upper benches shall be stabilised with plantation.
- (xv) The company shall obtain prior approval of CGWA/CGWB Regional Office for use of groundwater if required, for mining operations.
- (xvi) Regular monitoring of groundwater level and quality should be carried out by establishing a network of exiting wells and construction of new peizometers. The monitoring for quantity should be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.
- (xvii) The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- (xviii) Wastewater from coal washery shall be treated to prescribed standards and recycled for mining operations to the maximum extent possible.
- (xix) ETP should also be provided for treating workshop effluents and excess mine water to meet prescribed standards and recycled for mining operations to the maximum extent possible.

- (xx) An STP shall be provided in the township for treating domestic wastewater to meet the prescribed standards and recycled for mining operations to the maximum extent possible.
- (xxi) For monitoring land use pattern and for post mining land use, a time series of landuse maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhubaneswar.
- (xxii) A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests for approval 5 years in advance of final mine closure for approval.
- (xxiii) Consent to Operate shall be obtained before starting mining operations after fulfilment of conditions imposed in NOC.

B. General Conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.
- (iii) Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO₂ and NO_x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.
- (iv) Fugitive dust emissions (SPM and RPM) from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintained.
- (v) Data on ambient air quality (SPM, RPM, SO₂ and NO_x) should be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and to the State Pollution Control Board and to the Central Pollution Control Board once in six months.
- (vi) Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc should be provided with ear plugs/muffs.
- (vii) Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.

- (viii) Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.
 - (ix) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.

Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.
 - (x) A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the company.
 - (xi) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to this Ministry and its Regional Office at Bhubaneswar.
 - (xii) The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
 - (xiii) A copy of the will be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
 - (xiv) State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
 - (xv) The Project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at <http://envfor.nic.in/>.
3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.
5. The above conditions will be enforced *inter-alia*, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution)

Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules.

(Dr.T.Chandini)
Director

Copy to:

1. Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. Secretary, Department of Environment & Forests, Government of Jharkand, Secretariat, Ranchi.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, A/3 Chandrashekarapur, Bhubaneswar - 751023.
4. Chairman, Jharkand State Pollution Control Board, TA Building, HEC Complex, PO Dhurwa, Ranchi.
5. Chairman, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
6. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. District Collector, Chatra, Government of Jharkand.
8. Monitoring File 9. Guard File 10. Record File

(Dr.T.Chandini)
Director

3-11

तार :

Telegram : PARYAVARAN,
NEW DELHI

दूरभाष :

Telephone :

टेलिक्स :

Telex : W 86185 DOE IN

FAX : 4360678

भारत सरकार

पर्यावरण-एवं वन मंत्रालय

GOVERNMENT OF INDIA

MINISTRY OF ENVIRONMENT & FORESTS

पर्यावरण भवन, सी. जी. ओ. कॉम्प्लेक्स

PARYAVARAN BHAWAN, C.G.O. COMPLEX

लोदी रोड, नई दिल्ली-110003

LODI ROAD, NEW DELHI-110003

No. 8-172/89 FC
Dt. 03.01.95

To,
The Secretary Forests,
Govt. of Bihar
Patna.

Sub: Diversion of 43.30 ha. of forest land for coal mining
in Piparwar Open Cast Project of CCL in Hazaribagh
district.

Sir,

I am directed to refer to your letter no. Van-Bhu-Ha-mining
:2:8/92-01-E dated 1.1.92 on the above mentioned subject
seeking prior approval of the Central Government in accordance
with Section-2 of the Forest (Conservation) Act, 1980 and to
say that the proposal has been examined by Advisory Committee
constituted by Central Government under Section 3 of the Act.

After careful consideration of the proposal of the State
Government and on the basis of the recommendations of above
mentioned Advisory Committee, the Central Government hereby
conveys its approval under section 2 of the Forest
(Conservation) Act, 1980 for diversion of 43.3 ha. of forest
land for Coal Mining in Piparwar Open Cast Project of CCL in
Hazaribagh district, subject to the following conditions:-

- i) Legal status of forest land shall remain unchanged.
- ii) The compensatory afforestation shall be raised over
equivalent non-forest land at project cost. The non-forest
land identified for compensatory afforestation will be notified
as protected forest under the Indian Forest Act, 1927.
- iii) Fencing, protection and regeneration of the safety zone
area shall be carried out at the project cost. Further,
enrichment plantation over degraded forest land equivalent in
extent to one and a half times of safety zone area will be
carried out at the project cost.
- iv) Lease period shall remain for 10 years.
- v) Reclamation of the mined area shall be done at the project
cost as per the plan furnished.
- vi) Labourers working at the project site shall be supplied
with free fuelwood/other energy sources.

3-11

तार :

Telegram : PARYAVARAN,
NEW DELHI.

दूरभाष :

Telephone :

टेलिक्स :

Telex : W 86185 DOE IN

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भारत सरकार

पर्यावरण एवं वन मंत्रालय

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS

पर्यावरण भवन, सी. जी. ओ. कॉम्प्लेक्स

PARYAVARAN BHAWAN, C.G.O. COMPLEX

लोदी रोड, नई दिल्ली-110003

LODI ROAD, NEW DELHI-110003

No. 8-172/89 FC
Dt. 03.01.95

To,
The Secretary Forests,
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Patna.

Sub: Diversion of 43.30 ha. of forest land for coal mining
in Piparwar Open Cast Project of CCL in Hazaribagh
district.

Sir,

I am directed to refer to your letter no. Van-Bhu-Ha-mining
:2:8/92-01-E dated 1.1.92 on the above mentioned subject
seeking prior approval of the Central Government in accordance
with Section-2 of the Forest (Conservation) Act, 1980 and to
say that the proposal has been examined by Advisory Committee
constituted by Central Government under Section 3 of the Act.

After careful consideration of the proposal of the State
Government and on the basis of the recommendations of above
mentioned Advisory Committee, the Central Government hereby
conveys its approval under section 2 of the Forest
(Conservation) Act, 1980 for diversion of 43.3 ha. of forest
land for Coal Mining in Piparwar Open Cast Project of CCL in
Hazaribagh district, subject to the following conditions:-

- i) Legal status of forest land shall remain unchanged.
- ii) The compensatory afforestation shall be raised over
equivalent non-forest land at project cost. The non-forest
land identified for compensatory afforestation will be notified
as protected forest under the Indian Forest Act, 1927.
- iii) Fencing, protection and regeneration of the safety zone
area shall be carried out at the project cost. Further,
enrichment plantation over degraded forest land equivalent in
extent to one and a half times of safety zone area will be
carried out at the project cost.
- iv) Lease period shall remain for 10 years.
- v) Reclamation of the mined area (iii) be done at the project
cost as per the plan furnished.
- vi) Labourers working at the project site shall be supplied
with free fuelwood/other energy sources.

- vii) Environmental safeguards stipulated by Environment Wing of the Ministry shall be strictly followed.
- viii) Oustees will be rehabilitated as per the plan furnished.

Yours faithfully,

(MUNINDRA)

Under Secretary to the Government of India.

Copy to:-

1. The Principal Chief Conservator of Forests, Government of Bihar, Ranchi.
2. The Nodal Officer, Office of the Principal Chief Conservator of Forests, Govt. of Bihar, Ranchi.
3. The CCF(C), Regional office, Bhubneshwar.
4. RO(HQ), New Delhi.
5. Guard file.

(MUNINDRA) 314

Under Secretary to the Government of India.

No. 8-17/89-FC
 Government of India
 Ministry of Environment & Forests
 (FC Division)

Paryavaran Bhawan
 CGO Complex, Lodhi Road
 New Delhi - 110 003.

Dated : 2-12-1992.

To

The Secretary (Forests)
 Government of Bihar,
 Patna.

Subject:- Diversion of 13.11 ha. of Forest land for
 Piparwar coal project of C.C.L. in Hazaribagh
 district.

Sir,

I am directed to refer to your letter No. (2)8/92-1581 E/V.P. dated 26-10-1992 on the above mentioned subject seeking prior approval of the Central Government in accordance with Section-2 of the Forest (Conservation) Act, 1980 and to say that the proposal has been examined by the Advisory Committee constituted by the Central Government under Section-3 of the aforesaid Act.


2. After careful consideration of the proposal of the State Government and on the basis of the recommendation of the above mentioned Advisory Committee, the Central Government hereby conveys its approval under Section-2 of the Forest (Conservation) Act, 1980 for diversion of 13.11 ha. of forest land for piparwar coal project of C.C.L. in Hazaribagh district subject to the following conditions:-

- i) legal status of the forest land will remain unchanged.
- ii) Compensatory afforestation shall be done in equivalent non-forest land at the project cost.

A.K.C.


- iii) Tree plantation is to be done on both the sides of Excavation for Nallahs at the cost of user agency.
- iv) No tree should be felled outside the excavation area and sump construction area.

Yours faithfully,


(MUNINDRA)
Under Secretary to the Government of India

Copy to:-

1. Principal Chief Conservator of Forests, Govt. of Bihar, Ranchi.
2. Nodal Officer, Office of PCCF, Govt. of Bihar, Ranchi.
3. The CCF (Central), Regional Office, Bhubaneswar.
4. RO (HQ), New Delhi.
5. Guard File.


(MUNINDRA)
Under Secretary to the Government of India

G.M. (ENV) CCL.

20-II

P:02

FROM - M.K. SHUKLA

CIL (ND) 21.09.01

①/2

200-29

No. 8-48/98-FC
Government of India
Ministry of Environment & Forests
(F.C. Division)

Parvavaran Bhavan, CGO Complex,
Lodhi Road, New Delhi - 110003.
Dated: 21st September, 2001

To
The Secretary (Forests),
Government of Jharkhand,
Ranchi.

Sub: Diversion of 28.22 ha. of forest land for Piparwar Project in favour of CCL in district Chatra, Jharkhand.

Sir,

I am directed to refer to Govt. of Bihar, Deptt. of Forests and Environment's letter no. VAN BIHU KHANAN 6/98-290 E/VP dated 3.4.98, your letter no. VAN BIHU KHANAN 6/98-3381 dated 10.09.2001 enclosing therewith PCCF, Jharkhand's letter no. 22P 2(2)21/97-103 dated 10.01.2001 and 2738 dated 13.07.2001 on the above mentioned subject seeking prior approval of the Central Government in accordance with Section-2 of the Forest (Conservation) Act, 1980 and to say that the proposal has been examined by the Advisory Committee constituted by the Central Government under Section-3 of the aforesaid Act.

2. After careful consideration of the proposal of the State Government and on the recommendations of the above mentioned Advisory Committee, the Central Government hereby conveys its approval under Section-2 of the Forest (Conservation) Act, 1980 for diversion of 28.22 ha. of forest land for Piparwar Project in favour of CCL in district Chatra, Jharkhand subject to fulfillment of following conditions:-

- i) Legal status of forest land shall remain unchanged.
- ii) Compensatory afforestation shall be carried out over double the degraded forest land at the project cost.
- iii) Penal compensatory afforestation shall be carried out over 18.08 ha. of degraded forest land at the project cost.
- iv) Mining shall be done as per the approved mining plan. The reclamation of mined out areas will be done concurrently as per Plan and in consultation with the State Forest Department at the project cost. The approved/agreed upon Reclamation Plan shall be submitted to this Ministry as well as to the Regional Office, Bhubaneswar immediately. The progress of reclamation shall be assessed by the State Forest Department and the Regional Office, Bhubaneswar periodically.
- v) Fencing, protection and regeneration of the safety zone area will be done at the project cost. Besides this, enrichment plantation over one and half times of safety zone area in degraded forest land elsewhere will be done at the project cost.

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2/2

- vi) Demarcation of mining lease area will be done on the ground at the project cost using four feet high reinforced cement concrete pillars with serial numbers, forward & back bearings and distance from pillar to pillar.
- vii) No felling of trees shall be done within the lease area unless it is really warranted for mining and such felling should be done with the prior permission and the conditions imposed by the concerned DFO.
- viii) The user agency will make arrangements for free supply of fuel wood preferably alternate energy source to labourers and staff working on the project site so as to avoid any pressure on the adjacent forest areas.
- ix) The period of permission under the Forest (Conservation) Act, 1980 will be for 30 years w.e.f. the date of issue of this order subject to Environmental Clearance under the Environment (Protection) Act, 1986, if applicable.
- x) The area will not be used for any other purpose other than that specified in the proposal.
- xi) Any other condition that the State Government or the Chief Conservator of Forests (Central), Regional Office, Bhubaneswar may impose from time to time in the interest of afforestation, conservation and management of flora and fauna of the area.

Yours faithfully,

(J.P. Misra)

Assistant Inspector General of Forests

Copy to:-

- 1. The Principal Chief Conservator of Forests, Government of Jharkhand, Ranchi.
- 2. The Nodal Officer, Department of Forests, Government of Jharkhand, Ranchi.
- 3. The Chief Conservator of Forests (Central), Regional Office, Bhubaneswar.
- 4. The Regional Office (HQ), New Delhi
- 5. The User Agency.
- 6. Guard file.

J.P. Misra
21.5.2011
(J.P. Misra)

Assistant Inspector General of Forests

21-11

148

F.No.8-54/2003-FC
Government of India
Ministry of Environment & Forests
(FC Division)

Paryaranvaran Bhawan
CGO Complex, Lodhi Road
New Delhi-110 003

Dated: 13th January, 2004

To,
The Secretary (Forests)
Government of Jharkhand
Ranchi.

Sub: Diversion of 101.87 ha of forest land for Piparwar Open cast mining in favour of Central Coal fields Ltd. District Chatra, Jharkhand.

Sir,

I am directed to refer to your letter no. Vanbhumi-31/2003-1627 dated 31-3-03 on the above mentioned subject seeking prior approval of the Central Government in accordance with Section 2 of the Forest (Conservation) Act, 1980, and to say that the proposal has been examined by the Forest Advisory Committee constituted by the Central Government under section 3 of the aforesaid Act.

2. After careful consideration of the proposal of the State Government and on the basis of the recommendation of the above mentioned Advisory Committee, the Central Government hereby conveys its approval under Section 2 of Forest (Conservation) Act, 1980 for diversion of 101.87 ha of forest land for Piparwar Open cast mining in favour of Central Coal fields Ltd. District Chatra, Jharkhand, subject to fulfillment of following conditions:-

1. Legal status of the forest shall remain unchanged.
2. Compensatory afforestation shall be raised over double the degraded forest land i.e. 203.74 ha. of degraded forest land and shall be maintained at the project cost.
3. This diversion will be co-terminus with the current lease granted under MMRD Act, 1957.
4. The State Government shall transfer these and other funds to Compensatory Afforestation Management and Planning Agency (CAMPA) as and when created.
5. RCC pillars of 4 feet height shall be erected to demarcate the area by the User Agency at the project cost and will be marked with forward and back bearings.
6. The User Agency shall raise, fence and maintain a Safety Zone around the mining area and will also raise and maintain the plantation over an area one and half times in extent of the safety zone at the project cost.
7. The User Agency should implement the reclamation works as per the reclamation plan and monitoring of the reclamation works should be done continuously by the User Agency and the State Forest Department.


- 8. Trees shall be felled only when it becomes necessary and that should be done under strict supervision of State Forest Department.
- 9. No labour camps shall be established on the forest land.
- 10. Sufficient firewood shall be provided by the User Agency to the labourers at the project cost after purchase from the State Forest Department/Forest Development Corporation.
- 11. The user Agency shall ensure that there should be no damage to the available wildlife.
- 12. The approval under the Forest (Conservation) Act, 1980 is subject to the clearance under the Environment (Protection) Act, 1986, if applicable.
- 13. The forest land shall not be used for any purpose other than that specified in the proposal.
- 14. The User Agency shall submit a report regarding various issues discussed in the meeting on 31.03.2003 in the chamber of Inspector General of Forests (FC) related to setting up of a committee to look in to rehabilitation of mines, afforestation, declaration of afforested non-forest areas as reserve forest, creation of reservoirs, lakes etc.
- 15. Any other condition that the State Government as well as CCF (Central), Regional Office, Bhubaneswar may impose from time to time for the protection and improvement of flora and fauna in the forest area.

Yours faithfully,

(Pankaj Asthana)
Asstt. Inspector General of Forests

Copy to:

- 1. ✓ Principal Chief Conservation of Forests, Government of Jharkhand, Ranchi.
- 2. ✓ The Nodal Officer, O/o the PCCF, Government of Jharkhand, Ranchi.
- 3. CCF(Central), Regional Office, Bhubaneswar.
- 4. R.O. (Hq.), New Delhi.
- 5. User Agency.
- 6. PA to IGF(FC).
- 7. Guard file.


(Pankaj Asthana)
Asstt. Inspector General of Forests

Dated, New Delhi, the December 19, 2012

OFFICE MEMORANDUM

Sub: Guidelines for granting Environment Clearance for expansion of Coal Mining Projects involving one time Production Capacity Expansion of up to 25% in the existing operation -reg.

The OM of even number dated 15th April, 2010 contains the guidelines for granting Environment Clearance (EC) for expansion of coal mining sector projects.

2. Now, it has been decided that in respect of existing coal mining projects which apply for one time capacity expansion of up to 25% in the existing mining operation, within the existing mine lease area, the guidelines stated in this OM will be applicable in supersession of the guidelines of 15th April, 2010.

3. Expansion projects for Coal Sector mining fall in two categories-(i) projects that have obtained an EC under the EIA Notification 1994 and (ii) projects that have obtained EC under the EIA Notification, 2006. The EAC may consider exempting Public Hearing for the capacity expansion proposals of existing coal mining projects, which have obtained EC under any one of these Notifications, which are for one time capacity expansion of up to 25% in the existing mining operation, within the existing mine lease area, under clause 7(ii) of the EIA Notification 2006 subject to the following conditions:-

- (i) Such an exemption would be considered for those expansion projects which have obtained prior EC and have undergone Public Hearing during the process of obtaining EC.
- (ii) The proposal is for one time capacity expansion of up to 25% in the existing coal mining operation.
- (iii) There is no additional mine lease area involved.
- (iv) There is no change in mining method (underground to opencast).
- (v) Application for the expansion project shall include a certified report of the Regional Office of the MoEF on the issues of compliance of EC conditions stipulated for the existing project for which EC for the expansion is being sought and necessary action taken there upon by the EAC, in terms of the MoEF Circular No. J-11011/618/2010-IA.II (1) dated 30.5.2012.
- (vi) Details of the court cases, if any, pending in any Court of Law against the project as well as directions passed by any Court relating to the project shall be furnished by the proponent directly to the Environment Appraisal Committee (EAC). The EAC will deliberate upon the same and the gist of the discussion will be reflected in the minutes of the EAC meeting.
- (vii) Details of notices, if any, issued to the project under Section 5 of the Environment (Protection) Act, 1986 will be reported by the proponent directly to the EAC. The EAC will deliberate upon the same and the gist of the discussion will be reflected in the minutes of the EAC meeting.

...contd.2/-

- (viii) If the project falls in a Critically Polluted Area (CPA) wherein the moratorium has been lifted, the EAC shall examine the measures required to be implemented by the project proponent under the Environment Action Plan prepared by the State Pollution Control Board concerned and status of their implementation. In such cases, the EAC shall also examine the monitoring data furnished by the project proponent of the environmental quality of the study area/CPA in which the project falls and after due diligence, decide if any additional mitigative measures are required for the expansion.
- (ix) 25% expansion in production capacity is subject to a ceiling of 2 MTPA of additional production where the transportation of the additional production is proposed by road and of 5 MTPA of additional production if such transportation is proposed by means of a conveyor and/or rail transport.

This issues with the approval of the Competent Authority.


(Dr. Manoranjan Hota)
Director

To

- 1 PS to MEF
- 2 PPS to Secretary (E&F)
- 3 PPS to JS(AT)
- 4 All Officers of IA Division
- 5 PMO
- 6 Ministry of Coal

CENTRAL COALFIELDS LIMITED
DARBHANGA HOUSE: RANCHI

Sub: Forwarding Minutes of the 333rd (No. 6 of 2006)
Meeting of the Board of Directors held on 09.09.2006.

Extracts from the minutes of the above meeting in respect of following item is appended below:

Item No.4(1): Proposal for completion of Jharkhand OC(1 MTY).

With permission of the Chair, RD,RI-III, CMPDIL, was invited to make a presentation on the Project Reports submitted for consideration of the Board.

Following the presentation, the Board deliberated on the details brought out in the agenda note and noted that the Project achieved coal production of 0.80 MT in the year 2003-04. The Board directed that the year 2003-04 be taken as the year for project completion. Since the project achieved 80% production level in 2003-04 and major construction activities were complete, the Board directed that the year 2003-04, be taken as the year of completion and a Revised Cost Estimate be prepared comparing the notional sanctioned capital cost vis-à-vis expenditure already incurred and the same be submitted to Govt. for approval.

Item No.4(2): Proposal for de-rating-cum-completion of PR of Churi Re-organisation UG (0.84 MTY).

A presentation was made by RD, RI-III, CMPDIL.

After deliberation at length, the Board approved fore-closure of the PR of Churi Re-organization UG (0.84 MTY) at a production level of 0.16 MTY as brought out in the agenda note. The Board, however, directed that since the original PR was approved by the Govt., the proposed fore-closure be informed to the Govt. The Board also directed that a Revised Cost Estimate (RCE) reflecting the notional approved capital cost vis-à-vis actual expenditure incurred against the approved item be informed to the Board as well as to the Govt.

Item No.4(3): Proposal seeking approval of Project Report of Piparwar Expansion OC (10 Mty).

A presentation was made by RD, RI-III, CMPDI.

Piparwar Expansion OCP (10 MTY) under emergency coal production plan of CIL, with an incremental production of 3.5 MTY over the approved PR of 6.5 MTY, was presented before CCL Board.

APR

The Board was apprised that the project was completed in November, 1998 at a capital investment of Rs. 851.07 crore, excluding foreign exchange variation, which was less than 5% of the original approved cost within approved project time cycle. The Board noted that the audited existing assets as on 31.3.05 were Rs. 1071.42 crore.

After deliberation at length, the Board approved the proposal for outsourcing of both coal and OB at an additional capital expenditure of Rs. 21.87 crore as brought out in the Agenda Note.

In view of the approval of outsourcing of both coal and OB, the Board directed that procurement action for 2 no. of 10 cum Shovels and 14 no. 85T Rear Dumpers should not be taken up and the corresponding quantity be outsourced.

Item No.4(19): Proposal seeking approval of Project Report of Ashok Expansion OC (10 MTY).

A presentation was made by the RD, RI-III, CMPDIL.

The Board noted that the PR of Ashoka Expansion, with a rated capacity of 10 MTY, has been reviewed and re-cast in compliance of its directives given at the 332nd meeting held on 12.08.06 by incorporating one more option, i.e. total outsourcing of coal and OB with a proposal to transfer redundant HEMM and manpower to other mines of CCL for gainful utilization.

The Board was apprised that the Govt. approved Ashoka (6.5 MTY) Project Report with the option of coal being outsourced and OB removed by departmental means. Both outsourcing of coal and OB has been approved considering the transfer of existing HEMM to other mines of CCL for gainful utilization and the balance existing assets which have been considered for Ashoka are worth Rs. 24.21 crore.

After deliberation at length, the Board approved the proposal for outsourcing of both coal and OB at an additional capital expenditure of Rs. 312.89 crore and existing assets of Rs.24.21 crore aggregating to Rs.337.10 crore with the directive to place the proposal for approval to PIB at an early date.

It is requested kindly to take necessary action on the decision, wherever necessary, under intimation to this office.

A. Kapoor
15/09/06
(A. Kapoor)
M.M., Co. Sectt.

CGM(P&P)

RD, RI-III, CMPDIL

U.O.No. CS/BM/333/2006/ 524 Dated: 15.09.2006



CCL

(A Miniratna Cat-1 Company)

सेन्दूल कोलफील्ड्स लिमिटेड

(भारत सरकार का एक उपक्रम)

दरभंगा हाउस, राँची - 834 029

CENTRAL COALFIELDS LIMITED

(Govt. of India Undertaking)

Darbhangha House, Ranchi- 834 029

फोन/Phone: (0651) 236060 (10 lines), 2360123 (5lines)

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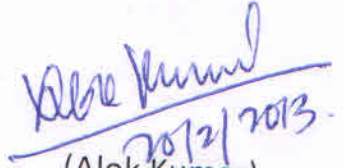
Ref. No: DGM/HOD(E&F)/2013/418

Date: 20.02.13

Certificate

This is to certify that the PR of Piparwar expansion OCP was approved by CCL Board vide 333rd meeting of Board of director held on 9.9.2006.

As per the revised production program the target for Piparwar expn OCP from 2013-14 onwards is 12.5 MTPA nominal and 14.5 MTPA Peak.



(Alok Kumar)

DGM/HOD (Env. & Forest)



**EMP CLEARANCE
(J-11015/186/2007- IA.II(M))**

PERIOD : April -12 to Sep -12

Piparwar Project



(ISO 9001 & ISO 14001-CERTIFIED)

(PIPARWAR AREA)

CENTRAL COALFIELDS LIMITED

Status of compliance of the terms and conditions given in the Environmental clearance letter No. J-1105/186/2007- IA. II (M) dt. 11.06.2007 issued by MOEF , Govt. of India, New Delhi for expansion of production capacity of Piparwar OCP from 6.5 MTPA to 10 MTPA with a peak capacity of 11.50 MTPA (J-1105/240/2011- IA. II (M) dt. 28.02.2012)

Sl. No.	Condition	Status of compliance
(i)	No mining operations shall be under taken in the forest land until forest land forestry clearance has been obtained under the provisions of FC Act-1980.	The total forest land in the lease area of 186.50 Ha has been diverted for mining. The clearance has been given vide letter nos; a) 8-172/89-FC, dated 2/12/1992, b) 8-172/89-FC, dated 3/1/1995, c) 8-48/98-FC, dated 21/09/2001, d) 8-54/2003-FC, dated 13/01/2004. (copy enclosed at Annex I)
(ii)	Mining shall be carried out as per statute at a safe distance from the Damodar river/ Safi Nala flowing adjacent to the lease boundary	Mining is being done as per statute and the Project Report. At the starting point the quarry was 1.72 km away from the bank of Damodar river. Gradually the quarry is moving away from Damodar river in north-east direction and the working place is about 2 to 3 KM away from the river bank. The quarry is moving away from the Damodar.
(iii)	The bond/ embankment constructed alongside Damodar River / Safi nala shall be it least 3 m higher that highest flood level, based on past data so as to guard against mine inundation. The slope of the embankment shall at least 21 towards the ML and the embankment stabilized with plantation.	The embankment along Damodar river already been constructed. The embankment is 3 m more than the HFL. There is no danger of inundation due to Damodar river The length of the embankment is : 1.7 Km and the top RL 417 m which is more than HFL ie 414 m , along the embankment the plantation was taken in the year 1994-96 , now it looks like dense forest.
(iv)	Topsoil, if any, should be stacked properly with proper slop at earmarked site and should not be kept active and shall be used for reclamation and development of green belt.	Topsoil is being used exclusively for reclamation and development of green belt. Total top soil excavated is about 20.63Lakh.cu m Total top soil used in reclamation and development of green belt is 20.63 Lakh cu m The top soil preserved at marked site is 6000 cum
(v)	No additional OB shall be dumped on the existing OB dump. The new OB generated shall be concurrently backfilled in the de-coaled area. The already accumulated OB has been stacked at earmarked one external OB deposit(s) within ML of a maximum height of 90 m and consisting of 3 benches of 30 m each. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsite shall continue until the vegetation becomes self-sustaining . compliance status should be submitted to the Ministry of Environment and Forests and its Regional Office located at	The OB is being back filled in the de-coaled area. The height of reclaimed ground level is not above the pre-mining ground level. The height of one external dump is less than 50 meters and the ultimate slope of the dump is about 27 – 28 degrees. Afforestation has been undertaken on stable reclaimed area by State Forest department until the vegetation become self- sustaining. Reclaimed area till date is 255 Ha Afforestation done : 6.685 lakhs nos The reports are being sent regularly.

Bhubaneswar on an yearly basis.										
Sl. No.	Condition	Status of compliance								
(vi)	<p>Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development, etc.. The drain should be regularly desilted and maintained properly.</p> <p>Garland drains (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provided adequate retention period to allow proper setting of silt material.</p>	<p>Catch drains of required dimension has been constructed to arrest the silt and sediment. The details are given below;</p> <p>Length of catch drain : 2000 m Depth: 1.0 m to 3.0m Width: 1.0 m to 2.50 m.</p> <p>The clean water so collected is being utilized for watering mine area, roads, green belt developments etc. Sufficient sump capacity has been provided to have adequate retention period to allow proper settling of silt.</p> <p>The sump dimension are:</p> <ol style="list-style-type: none"> 1. Primary sump: 200x150x6 m 2. Secondary sump:250mx200x8 m 3. Intermediate sump at 6 places as per details given below; <table border="1"> <thead> <tr> <th>Dimension of sump</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>280x150x4m</td> <td>2 nos.</td> </tr> <tr> <td>150x40x2m</td> <td>2 nos</td> </tr> <tr> <td>100x30x2m</td> <td>2 nos.</td> </tr> </tbody> </table>	Dimension of sump	Number	280x150x4m	2 nos.	150x40x2m	2 nos	100x30x2m	2 nos.
Dimension of sump	Number									
280x150x4m	2 nos.									
150x40x2m	2 nos									
100x30x2m	2 nos.									
(vii)	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.	Retaining wall of dimension 45m (L) X1m (Ht) X0.5m (W) constructed. About 100 m of retaining wall proposed to be constructed.								
(viii)	High efficiency bag filters / water sprinkling system should be provided to check fugitive emissions from the workshop, conveyor system, haulage roads, transfer points etc.	<p>Sufficient numbers of static and movable water sprinkling system has been provided to check fugitive emissions from various part of mine as per details given below;</p> <p>(i) Mobile water sprinklers</p> <p>(a) 28 KL water tanker : 4 nos. (b) 38 KL water tanker : 3 nos.</p> <p>(ii) Fixed sprinkling arrangement</p> <p>(a) At all transfer points of conveyor system water sprinkling arrangement is provided. (b) coal transport road and siding covered by fixed sprinklers.</p>								
(ix)	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded. The road used for transportation to railway head shall be metal topped.	<p>Vehicles are regularly being maintained to control the emissions. Coal transportation is being done in covered trucks. The haul road is being maintained by graders to minimize generation of dust during transportation.</p> <p>5.8 Km of coal transportation road is black topped. Black topping of another 14.7 km is</p>								

		proposed in 2012-13 and 2013-14.
Sl. No.	Condition	Status of compliance
(x)	Railway siding under construction with Raid Loading System to replace transportation of coal by road , shall be constructed in a time bound manner and have adequate arrangements for dust suppression.	Rapid loading system with dust control system completed. 13.0 km of rail track laid. Work is in progress for laying another 17.5 km of rail track.
(xi)	Drills should be wet operated.	All the drills have been provided with wet drilling system.
(xii)	Controlled blasting for OC operations should be practiced daytime with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.	Controlled blasting techniques shall be adopted. Blasting is done only in day light hours. Proper blast design is prepared to control ground vibration and to arrest fly rocks and boulders. Blasting is done with use of shock tubes. Maximum charge per day is 80 Kg to reduce ground vibration and noise pollution.
(xiii)	Area brought under afforestation shall not be less than 976 Ha and shall include reclaimed external OB dump, backfilled area , along ML boundary, along roads and green belt (426 ha) within the lease area by planting native species in consultation with the local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per ha.	The density of plantations under taken is 2500 plants per Ha. So far 255 Ha of area has already been planted. Total no of saplings planted : 6.685 lakhs Road side plantation is 15 KM Species of plantation : Sisam, Gamhar, Bakain, Mahua, Bamboo, Karanj, Sal, Kathal, Mango, Chakundi, Accacia, Khair, Shimal, Neem, Kusoom, Jamun, Kaju, Amala ,Ber etc
(xiv)	A progressive closure plan shall be implemented by reclamation of quarry area of 540 ha of which shall be backfilled, stabilized and afforested by planting native plant species in consultation with the DFO/ Agriculture Department. The density of the trees should be around 2500 plants per ha. The balance de-coaled void of 15 Ha being converted in to a water body shall be gently sloped and the upper benches shall be established with plantation.	A mine closure plan of Piparwar OCP has been made and approved by CCL Board in its 385 th meeting on 24.02.2012. About 238 Ha of mined out area has been reclaimed till August 2012. The density of plantation is 2500 plants per Ha and is done by State Forest Deptt, Jharkhand. The final mine closure plan shall be prepared about five years before actual closure of mine.
(xv)	The company shall obtain prior approval of CGWA/CGWB Regional Office for use of ground water if required, for mining operations.	Agreed.
(xvi)	Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring of quantity should be done four times a year in pre-monsoon (May, monsoon (August), post monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly	Shall be complied.

Sl. No.	Condition	Status of compliance								
(xvii)	<p>within one month of monitoring.</p> <p>The company shall put up artificial groundwater recharge measures for augmentation of groundwater resource. The Project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.</p>	<p>In order to augment ground water resource, artificial ground water recharge measures have been taken. These are</p> <ol style="list-style-type: none"> (1) Pilot Mine - Reservoir dimensions are 340 m x 140x20 m (2) For Rain water harvesting sump / ponds at various places have been constructed. The sump dimension are: <ol style="list-style-type: none"> (i). Primary sump: 200x150x6 m (ii) Secondary sump:250mx200x8 m (iii) Intermediate sump at 6 places as per details given below; <table border="0" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: left;">Dimension of sump</th> <th style="text-align: left;">Number</th> </tr> </thead> <tbody> <tr> <td>(a) 280x150x4m</td> <td>2 nos.</td> </tr> <tr> <td>(b)150x40x2m</td> <td>2 nos</td> </tr> <tr> <td>(c)100x30x2m</td> <td>2 nos.</td> </tr> </tbody> </table> (3) Rain water harvesting systems at office complex & workshop at a cost of Rs. 8.5 lakhs and Rs 6.44 Lakhs respectively have already been installed. (4) Further, hand pumps , wells and ponds have been provided in near by villages to meet the water requirements of villagers. 	Dimension of sump	Number	(a) 280x150x4m	2 nos.	(b)150x40x2m	2 nos	(c)100x30x2m	2 nos.
Dimension of sump	Number									
(a) 280x150x4m	2 nos.									
(b)150x40x2m	2 nos									
(c)100x30x2m	2 nos.									
(xviii)	<p>Waste water from coal washery shall be treated to prescribed standards and recycled for mining operations to the maximum extent possible.</p>	<p>Coal washery is operating on zero discharge basis. The waste water is treated in thickener and a series of settling ponds and the treated water is recycled for beneficiation / industrial use.</p>								
(xix)	<p>ETP should also be provided for treating workshop effluents and excess mine water to meet prescribed standards and recycled for mining operations to the maximum extent possible.</p>	<p>ETP has been provided and maintained for treating workshop effluents. The clean water is being recycled .</p>								
(xx)	<p>An STP shall be provided in the township for treating domestic waste water to meet the prescribed standards and recycled for mining operations to the maximum extent possible.</p>	<p>As township is situated 10 KMs away and the system operating in colonies are septic tank and soak pit system.</p>								
(xxi)	<p>For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on scale of 1:5000) of the core zone and buffer zone, from the start of the Project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series) and the report submitted MOEF</p>	<p>The Remote Sensing is being carried out by CMPDI and the report shall be submitted to MOEF Bhubaneshwar.</p>								

	and its Regional Office at Bhubaneshwar	
Sl. No.	Condition	Status of compliance
(xxii)	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests for approval 5 years in advance of final mine closure for approval.	To be complied 5 years prior to mine closure.
(xxiii)	Consent to Operate shall be obtain before starting mining operations after fulfillment of conditions imposed in NOC.	Yes , fulfilled.
B.	General Conditions	
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	There is no change in mining technology.
(ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	Production of coal and OB is as per calendar plan.
(iii)	For ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO ₂ and NO _x monitoring . Location of the stations should be decided based on the meteorological data , topographical features and environmentally and ecologically sensitive in consultation with the State Pollution Control Board.	Air quality monitoring station has been established at Kisto Rehab village, Kalyanpur village, ISCO & Benti Rehab village for monitoring SPM, RPM, SO ₂ , NO _x . The results of monitoring report are enclosed in Annex-II .
(iv)	Fugitive dust emission (SPM and RPM) from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul road, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintained.	Dust is controlled regularly by spraying water at Haul road, transfer point etc. Sprinkling system has been provided to check fugitive emissions from various part of mine as per details given below; (i) Mobile water sprinklers (a) 28 KL water tanker : 4 nos. (b) 36 KL water tanker : 3 nos. (ii) Fixed sprinkling arrangement at all transfer points of conveyor system water sprinkling arrangement is provided.
(v)	Data on ambient air quality (SPM, RPM SO ₂ and NO _x) should be regularly submitted to the ministry its Regional Office at Bhubaneshwar and to the State Pollution Control Board and to the Control Pollution Control Board once in six months.	Environment Quality data is regularly submitted to MoEF, Regional Office and SPCB. A copy of same is enclosed.

Sl. No.	Condition	Status of compliance
(vi)	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations , operation of HEMM etc. should be provided with ear plugs /muffs.	Workers engaged in Drilling and blasting operations , HEMM Operators etc. have been provided with ear plugs. Regular noise monitoring is being done by CMPDI. The results of noise monitoring report are enclosed.
(vii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to confirm to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31 st Dec-93 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.	100% water is re-cycled. An oil and grease trap is installed in the workshop. The results of water quality monitoring report are enclosed in Annex-II .
(viii)	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	Pollution monitoring and analysis is being carried out by CMPDIL.
(ix)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Operational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	Person working in dusty area have been provided with dust mask. Initial and periodic medical examination of employees is carried out on regular basis every year. Target of PME: 102 (up to Sep-12) Achievement of PME: 115
(x)	A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the Company.	Separate environmental cell has been established and put under charge of Staff Officer (P&P), Piparwar Area who reports to the General Manager, Piparwar – Head of the Area/ Project.
(xi)	The funds earmarked for environmental protection measures should kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to this Ministry and its Regional Office at Bhubaneswar.	The break up of expenditure on environment management for 2011-12 is given below; Flood protective work : 9.15 Lakhs Anti Pollution measure : 10 Lakhs Biological reclamation : 40 Lakhs Fixed water sprinkler : 6.50 lakhs House keeping : 10 lakh Colony Cleaning : 10 Lakh CT road Cleaning: 5 Lakhs Belt cleaning : 9 lakh Total : 99.65 lakhs.

		<p>Proposed expenditure on for 2012-13 is given below;</p> <p>Rain water harvesting : 6.50 lakh. Flood protective work :8 Lakh Ani pollution measure :10 Lakh Biological reclamation: 40 lakhs</p> <p>House keeping : 10 Lakhs Colony cleaning : 10 Lakhs CT road sweeping and clening : 5 lakhs Belt cleaning : 7 lakhs</p> <p style="text-align: right;">Total : 116.50 lakhs</p>
Sl. No.	Condition	Status of compliance
(xii)	The Regional Office of this Ministry located at Bhubaneshwar shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.	Agreed.
(xiii)	A copy will be marked to concerned Panchayat / Local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	Complied
(xiv)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/ Tehsildar's Office for 30 days.	To be done by JSPCB
(xv)	The Project authorities should advertise at least in two local newspapers widely circulated around the Project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the Project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at the website of the ministry of Environment and Forests at http:// envfor.nic.in .	The information about environment clearance has been published in Hindustan, Prabhat Khabar, Dainik Jagran , CCL,Ranchi Express in Hindi.

ADDITIONAL CONDITIONS (J-1105/240/2011- IA. II (M) dt. 28.02.2012)		
Sl. No.	Condition	Status of compliance
(i)	The rated capacity of the Piparwar opencast coal mine project shall be 10 MTPA normative and 11.5 MTPA peak capacity. The mine shall not exceed 11.50 MTPA production capacity.	Complied. The production of mine is within 11.50 MTPA.
(ii)	Mechanised silo and wagon loading shall be commissioned by March 2013 and a railway siding shall be established for coal transportation to reduce the dust pollution in the area.	Rapid loading system with dust control system completed. 13.0 km of rail track laid. Work is in progress for laying another 17.5 km of rail track which is likely to be completed by 2013-14.
(iii)	Native plant species including fruit trees shall be planted under afforestation plan for mine reclamation.	Plant species like Sagwan, Bacquen, Kat Sagwan, Arjun, Khair, Shariffa, Kaju, Mahua, Neem, Awanlwa, Kathal.
(iv)	There shall be no new external OB dumps.	Complied. There is no new external OB dump in mine.
(v)	Clean drinking water shall be provided to adjoining villages under CSR.	Drinking water facilities under CSR provided in villages- Prajapati Tola, Benti, Khunti tola, Chiraiya tand, Belari, etc.
(vi)	Monitoring of air quality parameters SPM &RSPM shall be replaced with air quality parameters PM10 &PM2.5.	Monitoring of PM10 is going on. PM2.5 will be started in due course by CMPDIL.
(vii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM10, PM 2.5, SO2 & NOx. Location of the stations shall be decided based on meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr in PM10 & PM 2.,5 etc shall be carried out at least once in a year.	Four AAQ stations – Kisto Rehab site, Kalyanpur village, ISCO cave painting site and Benti Rehab site already exist. The monitoring report is enclosed at Annx II . Monitored values of heavy metals will be submitted separately.
(viii)	Data on ambient air quality PM10, PM2.5 , SO2 & NOx and heavy metals Hg, As, Ni, Cd, Cr,etc. and other monitoring data shall be regularly submitted to ministry including its Regional Office at Bhopal and to SPCB and to CPCB once in six months. Random verification of samples through analysis from independent laboratories recognized under EP rules 1986 shall be furnished as part of compliance report.	The AAQ data is regularly submitted. Monitoring of PM2.5 will be started in due course by CMPDIL.
(ix)	Fugitive dust emissions (PM10, PM 2.5, SO2 & NOx and heavy metals Hg, As, Ni, Cd, Cr,etc.) from all the sources shall be controlled , regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) point shall be provided and properly maintained until coal transportation is by road.	Fugitive dust is controlled regularly by spraying water at Haul road, transfer point etc. Sprinkling system has been provided to check fugitive emissions from various part of mine as per details given below; (i) Mobile water sprinklers (a) 28 KL water tanker : 4 nos. (b) 36 KL water tanker : 3 nos. (ii) Fixed sprinkling arrangement at all transfer points of conveyor system water sprinkling arrangement is provided.

ANNEXURE -I

ANNEXURE -II

**PHOTOGRAPHS
OF
SITE**



Plantation on backfilled dump



Grown-up Plants on backfilled Area



Avenue Plantation.



Rain Water Harvesting.



Lagoon



Migratory birds in the Lagoon.

**DETAIL OF PUBLIC HEARING ORGANISED THROUGH JHARKHAND STATE
POLLUTION CONTROL BOARD
TOWN ADMINISTRATION DIVISION, HEC, DHURWA, RANCHI-834004 FOR
EXPANSION OF M/s PIPARWAR OPENCASST PROJECT
FROM 6.50 MTPA TO 10.0 MTPA,
CCL IN NK AREA, POST BACHRA, DISTRICT-CHATRA, JHARKHAND**

Detail of Public Hearing

Date of Advertisement	19.04.2006
Newspapers in which the advertisement appeared	Local Hindi daily Prabhat Khabar and Hindustan
Date of public hearing (DD/MM/YYYY)	19.05.2006
Public Hearing Panel chaired by & members present	Sri SK Singh, Member Secretary, JSPCB, Ranchi
	Sri Rajeshwar Ram, Additional Collector, Chatra.
	Sri NK Toppo, Circle Officer, Tandwa, Chatra.
	Sri JP Tiwary, BDO, Rural Development, Chatra
No. of people attended the public hearing meeting and number of people from the lease area.	200
Summary/details of public hearing in tabular form	Given next

Present Status Of Compliance vis-à-vis Minutes of Public Hearing held on 19.05.2006

Sl no.	Name & Address Of Speaker	Issue Raised	Status Of Compliance
1	Sri M B Khalag, Village Mangatgadha	Appealed to extend the welfare facilities to workers in future also.	It is proposed to spend Rs 490.0 Crore upto 2016 in CCL command area.
		The expansion of project must lead to development of people and region also.	Under CSR scheme, supply of drinking water, health care, educational facilities in villages, rural infrastructure development and rural lighting are already being implemented in 15 Km area. 100 bedded hospital is proposed at Tandwa with fund provision of Rs 100 Crores. 3 number of model schools (Rs 70 Crores), 2 DAV schools (Rs 8 Crores)

		<p>are proposed for quality education for rural masses of the region. 3 ITIs (Bachra, Brmo, Charhi) are proposed (Rs 30 Crores)</p> <p>CSR activities in recent years 2010-10: Rs 455.07 Lakh 2011-12: Rs 473.81 Lakh 2012-13: Rs 839.60 Lakh</p> <p>Regular budgetry support is provided by Piprwar OCP to different schools like DAV School, Bachra, Saraswati Shishu Mandir, BOCM Colony & Saraswati Shishu Mandir, Purnirai.</p>	
	<p>Attention should be given to mitigating of air and water pollution.</p>	<p>Sufficient numbers of static and movable water sprinkling system have been provided to check fugitive emissions from various parts of mine. (a) 28 KL water tanker : 4 nos. (b) 38 KL water tanker : 3 nos. © At all transfer points of conveyor system water sprinkling system are available.</p> <p>Rapid loading system with dust control system completed. 13.0 km of rail track laid. Work is in progress for laying another 17.5 km of rail track which is likely to be completed by 2013-14.</p> <p>2 continuous air monitoring stations are proposed in 2013-14 at Piparwar (NK CF) & Ramgarh (Ramgarh CF).</p>	
			<p>Catch drains of required dimension has been constructed to arrest the silt and sediment. The details are given below: Length of catch drain : 2000 m Depth: 1.0 m to 3.0m Width: 1.0 m to 2.50 m. The clean water so collected is being utilized for watering mine area, roads, green belt developments etc. Sufficient sump capacity has been provided to have adequate retention period to allow proper settling of silt.</p>

			<p>The sump dimension are:</p> <ol style="list-style-type: none"> 1. Primary sump: 200x150x6 m 2. Secondary sump:250mx200x8 m 3. Intermediate sump at 6 places as per details given below; <p>Dimension of sump Number</p> <p>280x150x4m: 2 nos. 150x40x2m: 2 nos 100x30x2m : 2 nos.</p> <p>ETP has been provided and maintained for treating workshop effluents. The clean water is being recycled . 100% water is re-cycled. An oil and grease trap is installed in the workshop. Coal washery is operating on zero discharge basis. The waste water is treated in thickener and a series of settling ponds and the treated water is recycled for beneficiation / industrial use. 50 check dams are proposed in NK Coalfield with a fund provision of Rs 5.0 Crore in coming years.</p>
		Dust generated due to road transport of coal should be controlled through early start of Piparwar railway siding.	<p>Rapid loading system with dust control system completed.</p> <p>13.0 km of rail track laid. Work is in progress for laying another 17.5 km of rail track which is likely to be completed by 2013-14.</p>
2	Sri Baj Krishna Mahto, Village Kisto	Employment may be given to land losers.	<p>Total number of employment given to land losers in this Project is 581.</p> <p>Vocational training for rural youth & women in fields like animal husbandry, fishery and handicrafts etc (fund provision of Rs 10.0 Crore in CCL command area upto 2016).</p>
		Educational facilities may be extended to children of villagers also.	<p>Scheme for promoting meritorious students started. They will be provided free fooding, lodging, coaching & educational facilities (fund provision of Rs 4.0 Crore in CCL command area upto 2016)</p>

			Vocational training for rural youth & women in fields like animal husbandry, fishery and handicrafts etc (fund provision of Rs 10.0 Crore in CCL command area upto 2016)															
3	Sri Sukhi Rajju, Village Benti	Adequate arrangements may be made for mitigation of water pollution.	<p>Catch drains of required dimension has been constructed to arrest the silt and sediment. The details are given below: Length of catch drain : 2000 m Depth: 1.0 m to 3.0m Width: 1.0 m to 2.50 m.</p> <p>The clean water so collected is being utilized for watering mine area, roads, green belt developments etc. Sufficient sump capacity has been provided to have adequate retention period to allow proper settling of silt. The sump dimension are:</p> <ol style="list-style-type: none"> 1. Primary sump: 200x150x6 m 2. Secondary sump:250mx200x8 m 3. Intermediate sump at 6 places as per details given below; <table border="0"> <thead> <tr> <th style="text-align: left;">Dimension</th> <th style="text-align: left;">of</th> <th style="text-align: left;">sump</th> </tr> <tr> <th style="text-align: left;">Number</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>280x150x4m:</td> <td>2 nos.</td> <td></td> </tr> <tr> <td>150x40x2m:</td> <td>2 nos</td> <td></td> </tr> <tr> <td>100x30x2m :</td> <td>2 nos.</td> <td></td> </tr> </tbody> </table> <p>ETP has been provided and maintained for treating workshop effluents. The clean water is being recycled . 100% water is re-cycled. An oil and grease trap is installed in the workshop. Coal washery is operating on zero discharge basis. The waste water is treated in thickener and a series of settling ponds and the treated water is recycled for beneficiation / industrial use. 50 check dams are proposed in NK Coalfield with a fund provision of Rs 5.0 Crore in coming years.</p>	Dimension	of	sump	Number			280x150x4m:	2 nos.		150x40x2m:	2 nos		100x30x2m :	2 nos.	
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		<p>Villagers may be provided clean drinking water & water in ponds for bathing.</p>	<p>Integrated water supply scheme is operational. Water supply done regularly in villages. Borewells & ponds dug in villages. Pump sets & pipelines installed under CSR activities. Expenditure of Rs 473.81 Lakh done in 2011-12 under CSR activities in Piparwar Area which includes water schemes in nearby villages also.</p> <p>In 2012-13 (ongoing works)</p> <table border="1"> <thead> <tr> <th>Head of expenditure</th> <th>Fund Provision (Rs Lakh)</th> </tr> </thead> <tbody> <tr> <td>Education</td> <td>187.00</td> </tr> <tr> <td>Water supply</td> <td>347.80</td> </tr> <tr> <td>Social empowerment</td> <td>12.75</td> </tr> <tr> <td>Village electricity/ solar lights</td> <td>22.75</td> </tr> <tr> <td>Sports & culture</td> <td>5.50</td> </tr> <tr> <td>Infrastructure development</td> <td>263.80</td> </tr> <tr> <td>Total</td> <td>839.60</td> </tr> </tbody> </table> <p>In 2013-16 period, it is proposed to make 150 deep borewells with overhead concrete water tank and pipe network, 450 handpumps, 450 dug wells and 150 ponds in CCL command area at a total fund provision of Rs90 Crores.</p>	Head of expenditure	Fund Provision (Rs Lakh)	Education	187.00	Water supply	347.80	Social empowerment	12.75	Village electricity/ solar lights	22.75	Sports & culture	5.50	Infrastructure development	263.80	Total	839.60
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		<p>Fruit bearing trees should be planted.</p>	<p>Mahua, Kathal, Mango, Jamun, Kaju, Amala & Ber etc have been planted. Total number of saplings of these species planted is approximately 50000 (4000 in 2011 & 8110 in 2012).</p>																
4	Sri Vijay Lal village Bahera	<p>The Railway Siding should be started to minimize dust generation from coal transport.</p>	<p>Rapid loading system with dust control system completed. 13.0 km of rail track laid. Work is in progress for laying another 17.5 km of rail track which is likely to be completed by 2013-14.</p>																
		<p>Coal transportation road should be maintained properly.</p>	<p>7.0 Km of coal transportation road is black topped/ PCC including separate road of 1.5 km from Bhelwatand Village to Bachra.</p>																
		<p>Sprinkling of water should be done on road.</p>	<p>Sprinkling of water is already being done on road as explained at para no-1.</p>																

5	Md Eqbal Hussain, village Kanauda	Land losers are not being given adequate facilities. More facility to be given.	Apart from 581 jobs given in this project, land losers are given priority in contractual jobs. Vocational training is imparted to local youth from time to time.
		Arrangements for employment, road, hospitals, schools to be made.	Total number of employment given to land losers in this Project is 581.
		The Railway Siding should be started to minimize dust generation from coal transport.	The Railway Siding is likely to be started in 2013-14.
		Plantation has been done which the animals do not eat. Fruit bearing trees are to be planted.	Mahua, Kathal, Mango, Jamun, Kaju, Amala & Ber etc have been planted. Total number of saplings of these species planted is approximately 50000 (4000 in 2011 & 8110 in 2012).
		Separate road should be constructed for coal transportation till the commissioning of railway siding.	Dedicated coal transportation road is already being maintained as a stop gap arrangement till the time of commissioning of Piparwar Railway Siding.
6	Sri Alexander Tigga, Village Jethani & others	Air, water & noise pollution due to coal production should be checked.	Detail already given at para 1.
		The problem of overloading of coal trucks should be checked. Covering of the trucks by tarpaulin should be done.	Covering of the trucks by tarpaulin has been started and incorporated in coal transport contract. Overloading is checked strictly.
		The Railway Siding should be started to minimize dust generation from coal transport.	The Railway Siding is likely to be started in 2013-14.
