



JHARKHAND STATE POLLUTION CONTROL BOARD

T.A. DIVISION BUILDING (GROUND FLOOR), H.E.C., DHURWA, RANCHI-834004
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Memo No./JSPCB/B-3722

Ranchi, Dated 14/12/11

From: -

S.K. Sinha
Member Secretary

Handwritten note: 2572/12/11
19/12/11

Speedpost

To,

Member Secretary
Central Pollution Control Board,
Parivesh Bhawan,
East Arjun Nagar, Delhi - 110 032

Handwritten note: Jc 40/11
JSM
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Sub: - Regarding- Material for meeting of steering committee for consideration of lifting moratorium in Dhanbad.

Handwritten note: Jc 255

Sir,

With reference to the above mentioned subject, please find enclosed herewith Material for meeting of steering committee for consideration of lifting moratorium in Dhanbad district of Jharkhand State, for your kind information and onward action.

Encl. A/A

Yours faithfully,

Handwritten signature of S.K. Sinha
14/12/11

(S.K. Sinha)

Member Secretary

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kindly review the progress report & A.C. with observation.
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Material for meeting of steering committee for consideration of lifting moratorium in Dhanbad district of Jharkhand State

4 Blocks of Dhanbad district of Jharkhand State is critically polluted area. Jharkhand State Pollution Control Board had prepared Dhanbad Action Plan to bring down the level of pollution of this district. This was forwarded to MoEF vide Forest & Environment Department, Jharkhand Govt. ref. no.-3/parya.pradu.-04/2011-2691 dated 12/07/2011. This was also forwarded to CPCB vide ref No. B-1862, Ranchi, dated 25-07-2011. Jharkhand State Pollution Control Board as well as district administration, Dhanbad is closely monitoring the implementation of this action plan being done by the Stake holders of the area. Major Stake holders of the area are BCCL & ECL of Coal India Ltd., India Iron & Steel Company (IISCO) of Steel Authority of India Ltd., (SAIL) and Tata Steel for their collieries & washeries, private Bee- Hive Hard Coke plant, coal briquette plants, soft coke plants and refractory plant owners. Actions to be taken by stake holders have clearly been defined in the Action Plan.

1. In Dhanbad area, BCCL have 103 mines in which 66 are functioning and 12 No. of Coal Washerries. Other than BCCL, ECL has 4 mines, SAIL and Tata Steel have 02 and 05 mines and one and two Coal washerries respectively.

The action plan for the collieries and washeries include the following:

- (a) The covering of loaded transport vehicles will be compulsory.
- (b) All transport roads and long time transport road shall be made pucca by. New haul roads will be taken in use after making it pucca.
- (c) All OB dumps will be enclosed by pucca boundary wall to prevent entry through them.
- (d) All drillings shall be done with dust containment and suppression systems. The fixed type sprinklers will be installed in all dust prone areas.
- (e) The water bodies shall be created in which and mine water/waste water shall be pumped to them after treatment.
- (f) The direction of surface run-off of the premises of collieries shall be diverted to created water bodies.
- (g) The workshop wastewater shall be passed through oil separator-cum-filtration system, by and then discharged to newly created water bodies.

- (h) Township-wise STP shall be installed.
- (i) All over burden dumps shall be removed from river bed or its proximity.
- (j) The removed OBs/ rejects of washeries shall, as far as possible, be utilized for low land filling in place of live soil or for making roads or by sale.
- (k) Tree plantation on the dumps of left out removed OBs (which could not be utilized for low land filling or for road making).
- (l) The plantation of saplings for creation of tree and forest cover of local species.
- (m) Alienation of underground affected mines.
- (n) Stowing of all unstowed U/G mines.
- (o) Monitoring of ambient air-reporting every month.
- (p) All processing (Crushing, screening etc.) chambers of coal will be covered.
- (q) Fixed type water sprinkler will be installed in all dust prone areas.
- (r) All coal washeries shall keep waste water in close circuit.

All the above actions are to be completed in the time range of 31.03.2011 to 31.03.2012. Four rounds of meetings were held in context of Dhanbad Action Plan. Two meetings were held at Ranchi under the chairmanship of Additional Chief Secretary, Forest and Environment on 25.02.2011 and 26.03.2011 and two meetings were held on Dhanbad under the chairmanship of Deputy Commissioner on 20.04.2011 and 26.09.2011. The officials of different collieries of BCCL, ECL, SAIL and Tata Steel submitted the following information:-

- (i) All truck carrying coal were covered with tarpaulin sheet.
- (ii) All haul roads in mines were in good condition.
- (iii) Old and unused OB dumps have been planted with local species.
- (iv) No water is fed to river Damodar or any other river.

A detail report on the various stake holders like BCCL, SAIL (IISCO), ECL, Tata Steel are being enclosed herewith and marked as annexure- I

The minutes of the meetings dated 25.02.2011, 26.03.2011 and 20.04.2011 are enclosed here with and marked as annexure II, III, & IV respectively.



Following the direction given by Forest and Environment Department, Govt. of Jharkhand, JSPC Board has closed down 22 collieries of Bharat Coking Coal Limited (BCCL) in the month of August, 2011, who had changed their production technology enhanced their production without obtaining Environmental Clearance. However, the BCCL have filed writ petition before the Hon'ble Jharkhand High Court and an interim order of "Status Quo" has been granted in their favour on 25.08.2011. Next date of hearing has been fixed on 29-11-2011.

2. Coal Washeries

The Board had received report of pollution of rivers by Sudamdih and Madhuban washery by M/s BCCL and by Chasnalla Washery of SAIL and these collieries were closed down for long period. They were allowed to operate after taking bank guarantee of Rs. 20.0 lakh each and various stringent conditions were imposed and then allowed to operate. Specific direction was given to these units to mitigate water pollution.

Board has also taken Bank Guarantees from coal washeries and issued directions to the units to keep their effluents fully in closed circuits and there shall be no effluent discharge into any water stream/river.

Regarding the discharge of untreated effluent directly into the river by these 3 coal washeries of the area namely Madhuwan Coal Washery, Sudamdih Coal Washery of BCCL and Chasnalla Coal washery of SAIL, the JSPC Board has filed complaint cases against them under water (Prevention & Control of Pollution) Act, 1974. After filing complaint cases all the three washeries have kept their effluents in closed circuit.

Following the direction of the Board Chasnalla Colliery and Washery have cleaned the river Damodar 1Km. downstream and Half kilometer up stream by dredging it which resulted in very good clean water flow in the river Damodar in that stretch and downstream.

3. Solid Waste Disposal:

From the minute of the meeting on 26.09.2011 it would be clear that the Municipal Corporation has finalized the tender for disposal of solid wastes.

Dy. Commissioner, Dhanbad reviewed the implementation of Dhanbad action plan with all the stake holders on 26/09/2011. The minutes of the meeting and action taken report is enclosed herewith for needful action and is marked as annexure- V.

4. **Bee-Hive Hard Coke Plant**

As per action plan, Bee-Hive Hard Coke units located in Dhanbad district following air pollution control mitigative measures are to be taken:

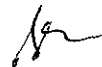
- i. Covering of loaded transport vehicles to be compulsorily done with all transport/haul roads to be made pucca.
- ii. the space of processing of coal or coke to be kept covered.
- iii. To control the emission levels from the stack all plants are to modify to ensure the emission of particulate matter to be below 150 microgram/Nm³.
- iv. Plantation of sapling to make more forest cover in the area.
- v. All the waste water shall be kept in closed circuit
- vi. Monitoring of Ambient air, Stack emission reporting shall be done quarterly, tree plantation reporting shall be done yearly.

All these activities have to be finished in the time range of 31.03.2011 to 31.03.2012.

There are 122 Bee Hive Hard Coke plants established in Dhanbad district 115 nos. of Bee Hive Hard Coke plants have installed Air Pollution control devices. 02 Nos. of Hard Coke units have not installed any APCD and 05 are closed.

Action taken by Board in regard to Bee-Hive Hard Coke plant.

JSPC Board has strictly adhered to the action plan and has not granted consent to operate to those Hard Coke units who have not complied the directions of action plan. Board has taken Bank Guarantees ranging from 1 lacs Rupees to 2 lacs Rupees from different Hard Coke units seeing their status of compliance of conditions of consent as well as future action plan. JSPC Board has also initiated action as per Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974 against all such hard coke plants, who have not taken suitable measures for control of air pollution.



5. Refractory Plants

Action plans for refractory plants of the area are more or less same as that of Bee-Hive hard coke plants with same time frame of completion of works required.

6. Stone Crusher and Brick Kiln

Action plans for stone crusher and brick kiln plants have also been made and very minor changes are there in it with time frame of completion for action ranges from 31.03.2011 to 31.03.2012. The Board has taken all necessary measures to check the pollution from Stone Crusher plants. Illegally operated plants have been identified and suitable legal action has been initiated against them.

Out of 182 stone crusher in the area, 34 have taken steps for covering the crusher screen, wind breaking wall, boundary wall etc. The Board will not grant consent to any unit which does not install the requisite air pollution control device (APCD).

In view of facts stated above the moratorium promulgated in the 4 blocks of the district of Dhanbad may kindly be lifted.

Enclosure- As above



Annexure-IV (B)

Summary of proposed Action Plan for Collieries

SN	Action point	Action plans for stake holders	Date of completion	Action taken by BCCL till date	Action to be taken	Commitment
1.	The ambient air of the collieries remains dusty due to pliance of uncovered trucks and those too on kutchha haul roads and on OB dumps and due to drilling & blasting and uncontrolled emission of their boilers.	(a) The covering of loaded transport vehicle will be compulsory.	31.03.11 (ST)	<p>All release orders / sale orders issued from GM (Sales & Marketing) BCCL specifically mention that all trucks are to be covered & are to be loaded as per its permitted loading capacity.</p> <p>All Coal dispatch beyond mine premises is already being done through covered vehicles. For transportation from Dump to Siding for rail dispatch, all further transportation agreement/contracts will include covering of loaded trucks as pre conditions.</p>	Actions have been initiated for inclusion of the condition of covering of coal tippers in all future coal transport contracts.	30/09/11 31/12/2011 21/3/2012
		(b) Coal transport roads will be made pucca. New puccal roads will be made	30.06.11 (ST)	<p>Minewise assessment for Pucca Road is being made. Out of assessed 151.5 Km BCCL Coal transportation Road, 140 km is already Pucca, for balance 11.5 km Road, action plan has been prepared and enclosed as annexure-I.</p> <p>In the fire affected area diversion of roads is proposed in Master plan approved by Govt of India, and action for this has been taken up by JRDA (Jharia Rehabilitation and Development Authority) under State govt. RITES has already been awarded the work to submit report on realignment of the roads through non- coal bearing Areas.</p>		<p>BCCL will award work of making transportation roads as Pucca roads by 30 Sept 2011. Mine wise details enclosed.</p> <ul style="list-style-type: none"> In the year 2011-12, Appox. 6.5 Km length is proposed to be made Pucca In the year 2012-13, Appox. 5.0 km road is proposed to be made puccaa.

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	<p>(c) OB dumps will be enclosed by pucca boundary wall to prevent entry through them.</p>	<p>30.06.1 1 (ST)</p>	<p>Total 1.8 km of Toewall and Garland drain has already been made. Mine/dump wise details are enclosed as annexure-II.</p>	<p>Further , Garland Drains/ Retaining walls/ Toe walls etc for a length of appox 1.5 Kms, will be made around OB dumps, Mine/dump wise details are enclosed as annexure-II.</p>	<p>Mar'12</p>
	<p>(d) All drillings shall be done with dust containment and suppression systems, The fixed type sprinklers will be installed in all dust prone areas. <i>(including all Road works & loading)</i></p>	<p>30.06.2 011 (ST)</p>	<p>Operating drills are fitted with OEM dust extractor system. Total 63 nos. of mobile water sprinkler having capacity 623 KL, are operating at present in BCCL mines. Details enclosed as annexure-III.</p>	<p>Fixed type sprinklers will be installed for a length of about 6 Kms in different BCCL mines/siding. Details enclosed as annexure-IV.</p>	<p>Mar'12</p>
	<p>(e) The prudent operational practice will be adopted to control.</p>	<p>31.03.1 1 (ST)</p>	<p>It shall be complied as per the advice/ suggestion of JSPCB and MoEF.</p>	<p>The Rapid Loading Systems has been very much appreciated by MoEF as dust control measure..BCCL has proposed 3 nos of such Rapid Loading Systems with silo arrangement. This will take care of 6 nos of existing sidings thus avoiding road transportation, loading unloading at these sidings which will in turn minimize dust emission due to these activities. The work on turn Key basis has already been awarded for one such Rapid Loading System with SILO arrangement at Maheshpur.</p>	<p>31.12.13 06.03.12</p>

2.	The receiving water bodies get polluted from surface run off of the collieries and from their discharges.	(a) The abandoned or inoperative mines shall be converted into water bodies and mine water / waste water shall be pumped to them with due observance of safety to adjoining mining.		<p>Following non-productive/Inoperative Mine has been converted as water body:</p> <ul style="list-style-type: none"> • Jhunkunder OCP which is inoperative at present has been converted into the water body and is used by nearby community. Kalyanchak -A is also being used at water body. • UG mines where operation are suspended water is being used for domestic purpose. Old Opencast workings where water can be stored will be done if safety permits. 	Accumulated water in abandoned mines may pose serious safety related problems. With a view to assess the possibility of abandoned mines to be used as a water body, CMFRI has been consulted. It needs further deliberations on this issues with the DGMS.	Offer from CIMFER has been received to discuss the matter with DGMS. 15.5.2011
		(b) The direction of surface run-off of the premises of collieries shall be diverted to abandoned or inoperative mines.	30.06.1 1 (ST)	Diversion of surface run-off to abandoned or inoperative mines may cause safety problems in the adjoining mines. In fiery mines, inrush of water may cause explosion also. In fact, in areas like Lodna, under ground mines have been sealed off and the OCPs are being backfilled.		
		(c) The waste water shall be passed through oil separator-cum-filtration system, by and then discharged to newly created water bodies.	30.06.1 1 (ST)	<ul style="list-style-type: none"> • Regional Workshop of Block-II is having oil and grease trap • Oil and grease trap is installed in Jeenagora Lodna Area. <p>Oil and grease are well within the permissible limits as the other workshop are very small.</p>	<p>For Sinnidih workshop work order has already been issued to CMPDI, HQ</p> <p>Oil & Grease Traps will be installed in other HEMM /open cast workshops of BCCL wherever applicable..</p>	Mar'12
		(d) Township-wise STP shall be installed.	31.03.1 2 (ST)	All company quarters are provided with soak pit and septic tanks. These quarters are very old and will be demolished and the population will be shifted to the new satellite townships coming around the Jharia Coalfield under the master plan approved by the Govt. of Jharkhand and	STP at townships like Koyla Nagar will be set-up.	By March 13 2011

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				the Govt. of India.		
3.	The mine overburden is the main problem in open cast mines. The OBs of collieries are dumped either on riverbed or on their banks at least at 14 places in river Damodar or its tributaries. Besides, the hazardous solid wastes are also generated in the workshops. They are recyclable and incinerable in ovens.	(a) All over burden dumps shall be removed from river bed or its proximity.	30.04.1 1 (ST)	No, overburden has been dumped in any river bed. Wherever OB dump is near river, it is already stable and having vegetation on it.	It is already being ensured that no new OB is dumped on river bed or its proximity.	
		(b) The removed OBs shall, as far as possible, be utilized for low land filling in place of live soil or for making roads.	30.06.1 1(ST)	This is being practiced. 137 Ha of Mined out has been backfilled in North Tisra /South Tisra OCP	Will be complied as and where practicable.	
		(c) Tree plantation on the dumps of left out removed OBs (which could not be utilized for low land filling or for road making).	15.07.1 1 (ST)	•175.4 ha. of land has been identified for plantation of 4.38 lakhs saplings in the year 10-11 onwards for next 4 years by DFO, Dhanbad. Approx.Rs.55 lakh out of total 1.54 crores has been given to DFO, Dhanbad as an advance for this purpose.	Mine-wise details are enclosed for the plantation detail. Annexure-V.	31.3.12
		(d) All hazardous wastes shall be disposed of to its re-processor or co-processor.	31.03.1 1 (ST)	Used and spent oil of OCP are reused in underground mines for lubricating coal haulage system. And left over oil is disposed of as per the prevailing regulation. Batteries are disposed by our Regional stores through auction	Disposal of Hazardous waste, burnt Oil / batteries is being done through E-auctioning to authorized recycler/ re-processor having valid authorization from CPCB/ SPCB. 1. Vinod Metal Industries, Howrah : used unserviceable Batteries.	

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					<p>2. Om Industries, Rohtak, Haryana, Burnt Oil</p> <p>3. Managalam Lubricants Private Ltd., Ranchi, Burnt Oil</p> <p>4. Srishti Lube India Pvt.Ltd. Begusarai, Bihar , Burnt Oil.</p>	
4.	<p>Due to deep mining of coal and the pumping out of water of the mines, many of the ground water aquifers are disturbed and ground water table has depleted. Because of which river Damodar and its tributaries of this area are not charged from the ground during rainy seasons. Due to which the flow of river has become to be minimum. Their flows are day by day decreasing.</p>	(a) All abandoned/ inoperative mines will be earmarked.	31.03.1 1 (ST)	Abandoned mines are earmarked where the total minable coal has been extracted.	Abandoned mines are earmarked where the total minable coal has been extracted.	
		(b) All outflow points of abandoned / inoperative mines will be suitably blocked.	30.06.1 1 (ST)	No outflow points in BCCL Mines.	It is being ensured.	
		(c) The orientation of flow of surface run-off of mines to abandoned / inoperative mines shall be completed.	30.06.1 1 (ST)	Diversion of surface run-off to abandoned or inoperative mines may cause safety problems in the adjoining mines .	CMFRI has been consulted and it needs further deliberations on this issues with the DGMS..	
		(d) The setting of pipe lines to abandoned / inoperative mines for pumping out mine water.	30.06.1 1 (ST)	<p>Some of the inoperative mines are being used in this regard. At present BCCL is already supplying 8.30 MGD Mine water after filtration for drinking purpose.</p> <p>Out of 18.30 MGD mine water:</p> <p>i) 8.30 MGD is being used for drinking/domestic purpose, ii) 4.00 MGD for washing purposes, drills, water spraying and fire quenching.</p>	<ul style="list-style-type: none"> • A scheme has already been proposed to utilize mine water of Barora, Block-II and Govindpur Area through common pipeline and storing it in two reservoirs of total capacity 47.00 MGD for community use of Khonatih and Behrakuder Villages. • 4.00 MGD is proposed to be sent through pipeline to ponds and villeges. • 2.00 MGD pressure filter is proposed to be installed at Lodna in next 2-3 months 	31.3.12

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5.	Due to operation of collieries, the bio-diversity of plant species, terrestrial animals and aquatic organism have adversely been affected.	(a) The plantation of saplings for creation of tree and forest cover of local species.	31.07.1 1 (ST)	BCCL has planted 1.40 crores of saplings within its command areas so far through Forest Department and Departmentally. In the last three years plantation has been done on 79 Ha of land/OB, and the year (11-12) we are taking plantation over 175 HA of land through Forest Department.	BCCL has already signed one MOU with Forest Research Institute Dehradun for Rs. 19.56 lakhs, for developing a Road Map for ecological development. The team has already taken up the Job and have visited the sites on 7th and 8th March 11..Report will be submitted in the Month of April 2011.	31.3.12
		(b) The conversion of abandoned / inoperative mines into water bodies.	31.07.1 1 (ST)	In CV Area Jhunkundar OCP mine is temporarily being utilized as a water reservoir.		
		(c) The charging of seeds of local aquatic organisms.	30.09.1 1 (ST)	Local aquatic life already exists in the Jhunkundar OCP water reservoir.		
6.	There is an underground fire in the areas of 41 collieries of BCCL. It was with the collieries of Tata Steel, Jharia Division also. They, however, quenched by stowing underground mines, developing water bodies etc	(a) Alienation of underground affected mines.	31.03.1 1 (ST)	Government of India has already approved The Master Plan for dealing with Fire , subsidence and Rehabilitation in the Lease Hold of BCCL vide letter no. 22020/1/2005-CRC dated 12.08.2009 which is being implemented. As per the approved Master Plan Mine fires have already been identified in 41 collieries of BCCL and schemes are under way for dealing with fires.	Schemes are under implementation as per approved Master Plan in Kujama colliery ,East Bassuriya colliery and Sendra Bansjora colliery.	2011-21
		(b) Stowing of all unstowed underground mines.	30.06.1 1 (ST)	As per the DGMS directives in the Master Plan, it has been suggested to dig out the fire instead of doing stowing for dealing with fire as a permanent solution. However stowing is done in some places as per requirement for temporary purpose as per DGMS conditions.		
		c) Development of water bodies over them.	30.06.1 1 (ST)	Water pooling has been done as suggested in the schemes to deal with fire under Master Plan like in Lodna and		

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				Rajapur.		
		d) Final quenching of fire by charging nitrogen etc.	30.09.1 1 (ST)	It has been used in Collieries of Lodna area and further action is being taken as per the Jharia Action Plan. But the ultimate solution for dealing with fire is digging out fire. And this method has been recommended in Master Plan for dealing with fire, subsidence and rehabilitation in the lease hold of BCCL.		
7.	Action for maintenance and continuity of the condition of good and aesthetic environment and compliance of legal provisions.	(a) Monitoring of ambient air reporting every month, effluent reporting every month, surface water reporting every month, ground water reporting every month, disposal of OBS reporting every quarter, hazardous wastes reporting every six months, fire extinguishing reporting every month and tree plantation reporting every year : Assurance.	31.03.1 1 (ST)	All Mines are being monitored regularly in connection with ambient air and water quality by BCCL own Laboratory.	Actions are being taken to get monitoring of Air /Water through approved laboratories of CMPDI Ranchi, as per work schedule. All reports as desired will be sent to SPCB as per schedule specified.	31.03.12 30.9.12 (monitoring) will start at establish- ment of Lab. in a phased manner by 30.9.12. to complete by 30.9.12.
		(b) Introduction of GIS/ GPS for continuous recording : Assurance.	31.03.1 1 (ST)	In this regard, it is already being done by Geo-matic Department at CMPDI through remote sensing. The reports are uploaded on our website: www.bccl.cmpdi.co.in.		
		(c) Every week broadcasting through TV and radio : Assurance.	31.03.1 1 (ST)	It will be complied by BCCL.		

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Annexure – V (B)

Summary of proposed Action Plan for Coal Washeries

SN	Action point	Action plans for stake holders	Date of completion	Action taken by BCCL till date	Action to be taken	Commitment
1.	The ambient air of the premises of coal washeries remains dusty due to pliance of uncovered trucks and those too on kutchha haul roads and on reject dumps and due to uncovered processing of coal.	(a) The covering of loaded transport vehicle will be compulsory.	31.03.2011 (ST)	Mahuda Washery:- Covering is used for loaded transport vehicles. Moonidih, Madhuban :- Being complied.	Sudamdih, Patherdih & Dugda :- Will be complied If required suitable change in work order will be done	30.12.11
		(b) All haul ^{transport} roads will be made pucca, New haul roads will be taken in use after making it pucca.	30.06.2011 (ST)	No haul roads exist in Washeries. However water is sprayed regularly in washery roads with the help of tankers and automatic sprinklers.		Same as Colliery 30.9.11
		(c) All reject dumps will be enclosed by pucca boundary to prevent entry through them.	30.06.2011 (ST)	Mahuda Washery: Production of rejects is nil.	Patherdih, Sudamdih, Madhuban, Dugda & Moonidih:- Will be complied.	31.03.12
		(d) All processing (crushing, screening etc.) chambers of coal will covered.	30.06.2011 (ST)	All processing units have covered chambers except in Moonidih	Work will be completed by 30.06.11	30.12.11

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<p>2.</p>	<p>The receiving water bodies gets polluted from surface run off of the collieries and from their mine water pumped for mining of coal and from the waste water emanating from workshops etc.</p>	<p>(a) The abandoned or inoperative mines shall be converted into water bodies and mine water shall be pumped to them.</p> <p>(b) The direction of surface run-off of the premises of coal washeries shall be diverted to abandoned or inoperative mines.</p> <p><i>workshop.</i></p> <p>(c) The waste water shall be passed through oil separator-cum-filtration system and then discharged to newly created water bodies.</p> <p>(d) Township-wise STP shall be installed.</p>	<p>31.03.2011 (ST)</p> <p>30.9.11.</p> <p>30.06.2011 (ST)</p> <p>30.9.11.</p> <p>31.03.2011 (ST)</p> <p>31.03.2012 (ST)</p> <p><i>As per Colliery</i></p>	<p>All washeries work under closed water circuit system and no effluent goes out of the washery premises.</p> <p>Measurement has been started in Sudamdih to build retaining wall to restrict surface run-off. Moonidih, Mahuda, Patherdih, Dugda:- Surface run-off directed to slurry ponds from where the water is pumped as make-up water in the washery premises itself.</p> <p>As there is no floatation system of washing fines in the existing washeries, there is negligible input of oil & grease.</p> <p>All company quarters are provided with soak pit and septic tanks. These quarters are very old and will be demolished and the population will be shifted to the new satellite townships coming around the Jharia Coalfield under the master plan approved by the Govt. of Jharkhand and the</p>	<p>Retaining wall will be constructed to restrict the surface water in Madhuban Washery.</p>	<p>31.12.11</p>
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				Govt. of India. All the new colonies which are to be developed in near future will be provided with STP as per the existing norms and practices.		
3.	The rejects of coal washeries is the main problem. They are dumped. Besides, the hazardous wastes are also generated. They are recyclable and incinerable in ovens.	(a) All rejects of these dumps shall be removed from river bed or its proximity.	31.03.2011 (ST)	<p>Patherdih:- Patherdih washery is 4 to 5 KM away from river so rejects is not dumped near it.</p> <p>Madhuban:- There is no rejects in the river bed or in the proximity of river.</p> <p>Mahuda:- Production of rejects is Nil.</p> <p>Dugda:- No rejects is dumped on river bed or its proximity. All rejects are stored within washery premises.</p> <p>Moonidih:- All rejects are within the premises of washery.</p>	Sudamdih:- Rejects are directly used for road making & filling-up the low land areas. However pucca boundry is being constructed to enclose the rejects.	30.11.11
		(b) The removed rejects shall be disposed of by utilisation or sale.	30.06.2011 (ST)	<p>Sudamdih & Patherdih:- The quantity of rejects is non saleable. It is directly being used for road making & filling low land areas.</p> <p>Patherdih:- Entire rejects are used for making roads.(with</p>	<p>Dugda:- Reject is being liquidated both through road sale & by utilizing it as feed to Dugda-1 plant. However, action has been taken to utilize the rejects in FBC,TTP at Dugda which is coming up for the</p>	<p>30.06.11 31.12.11</p>

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		(c) All hazardous wastes shall be disposed of to its re-processor or co-processor.	31.03.2011 (ST)	stones). Balance rejects are sold to Pvt. Parties by E-auction. However, action has been taken to utilize the rejects in FBC,TTP at Patherdih which is coming up for the rejects of new washeries. Madhuban:- It is being sold under e-auction. Mahuda:- Production of rejects is Nil. Being complied in all washeries.	rejects of new washeries.(Madhuban & Dugda NLW washeries) Moonidih:- Rejects is non saleable. Effort is being made to make it saleable by blending.
4.	Due to discharge of waste water of coal washeries, the bio-diversity of aquatic organisms has adversely been affected.	(a) The conversion of abandoned / inoperative mines into water bodies. <i>a) Dredging / Raising Rain water harvesting</i> (b) The charging of seeds of local aquatic organisms.	31.07.2011 (ST) 30.9.11 <i>Dredging (Except Madhuban and Sudaon)</i> 28.11.11 30.09.2011 (ST)	All the waheries operate under closed circuit system and no water goes out of the washery premises. <i>(Except Madhuban and Sudaon)</i> In view of 4(a). It is not applicable.	
5.	Action for maintenance and continuity of the condition of good and aesthetic environment and compliance of legal provisions.	(a) Monitoring of ambient air reporting every month, effluent reporting every month, downstream surface water reporting every month, ground water reporting every month, disposal of rejects reporting every quarter, hazardous wastes reporting every six months, and tree plantation reporting every year : Assurance.	31.03.2011 (ST)	Being complied. <i>As per Colliery,</i>	

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		(b) Introduction of GIS/ GPS for continuous recording : Assurance.	31.03.2011 (ST)	The facilities are available with CMPDI (Sister concern of BCCL). These facilities are utilized as and when required.		
		(C) Every week broadcasting through TV and radio : Assurance.	31.03.2011 (ST)		Shall be complied. As an entity.	

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Details of Garland Drains

Sl. No.	Name of Mine	Existing Garland drain in Mtrs.	Proposed Garland drain in mtrs.	Date of Completion.
1	Jamunia	-----	200	31.03.12
2	Gopalichak	-----	-----	-----
3	Muralidih	100	----	---
4	Bhowra(North)	----	150	31.03.12
	Bhowra(South)	----	150	31.03.12
5	Akashkinari	300	200	31.03.12
6	Block-IV	160	200	30.06.12
7	Muraidih	----	----	----
8	West Mudidih	----	----	----
9	Gaslitand	-----	250	31.03.12
10	Tetumari	---	---	---
11	Nichitpur	----	175	31.03.12
12	Sendra Bansjora	-----	175	31.03.12
13	Mudidih	-----	-----	-----
14	Damoda	----	----	----
	Total	560	1500	

Details of Toe Wall

Sl. No.	Name of Mine	Existing Toe Wall in Mtrs.	Proposed Toe Wall in mtrs.	Date of Completion.
1	Jamunia	280	----	----
2	Gopalichak	---	---	---
3	Muralidih	---	---	---
4	Bhowra(North)	---	---	---
	Bhowra(South)	---	---	---
5	Akashkinari	200	---	--
6	Block-IV	300	---	--
7	Muraidih	-----	-----	---
8	West Mudidih	-----	-----	-----
9	Gaslitand	-----	-----	---
10	Tetumari	250	-----	---
11	Nichitpur	-----	-----	-----
12	Sendra Bansjora	-----	-----	---
13	Mudidih	250	-----	-----
14	Damoda	----	---	---
	Total	1280	--	--

ACTION PLAN FOR PUCCA ROAD CONSTRUCTION BY BCCL 2011-12

SN	Mine	Area	Proposed Pucca Road (Mtrs)
1	Akshminari	Govindpur	250
2	PB	PB	150
3	Bhowra (S)	EJ	200
4	Bhowra(N)	EJ	200
5	Patherdih	EJ	250
6	Sudamdih	EJ	250
7	Lodna	Lodna	500
8	NT UG	Lodna	500
9	Bagdigi	Lodna	500
10	Joyrampur	Lodna	500
11	Barari	Lodna	500
12	Dahibari Basantimata	CV	200
13	Muraidih	Barora	500
14	Angarpathra	Katras	100
15	Kankani	Sijua	250
16	Alkusa	Kustore	200
17	Ena	Kustore	150
18	Rajapur	Kustore	150
19	KUjama	Bastacola	500
20	Bera	Bastacola	500
	Total		6500

ACTION PLAN FOR PUCCA ROAD CONSTRUCTION BY BCCL 2012-13

SN	Mine	Area	Proposed Pucca Road (Mtrs)
1	Gondudih	Kusunda	350
2	Dhansar Mixed	Kusunda	400
3	Kusunda	Kusunda	400
4	West Mudidih	Katras	350
5	Katras choitudih	Katras	250
6	Salanpur	Katras	400
7	Tetulmari	Sijua	450
8	Basdevpur	Sijua	450
9	Nichitpur	Sijua	500
10	GOCP/KOCP	Bastacola	450
11	Bastacolla UG	Bastacola	500
12	Dobari UG	Bastacola	500
	Total		5000

No. 601.

DETAIL OF WATER SPRINKLER IN BCCL

SN	Area/ Mine	Existing Sprinkler(No)	Capacity(KL)
	Barora		
1	Phularitand	2	13
2	Shatabdi	2	18
3	Muraidih	2	18
	Block-II		
1	Block-II OC	2	28
2	Jamunia OC	1	24
	Govindpur		
1	Akashkinari	1	12
2	Block-IV	1	24
3	Govindpur	1	4
4	Jogidih	1	4
	Katras		
1	W Mududuh	1	14
2	Angarpathra		
3	Gaslitand	1	24
4	Katras Chotudih	-	-
5	Şalanpur	1	12
	Sijua		
1	Tetulmari	3	20
2	Basdevpur		
3	Nichitpur	2	12
4	Kankani	1	12
5	Sendra Bansjora	2	10
6	Mudidih	1	20
	Kusunda		
1	Kusunda	3	15
2	Dhansar	1	15
3	Gondudih	2	15
	PB		
1	PB	1	4
2	KB 10/12	1	12
3	Bhagaband	1	12
4	Gopalichak	1	12
	Kustore		

1	Alkusa	1	3
2	Huralidih	1	3
3	Simlabahal	2	20
4	Ena	2	20
5	Rajapur	3	12
	Bastacola		
1	Kujama	1	20
2	GOC	1	20
3	BOC	1	20
4	dOBARI	1	20
5	BERA	1	20
	Lodna		
1	Lodna	1	8
2	NT UG	1	12
3	NTST	1	14
	E J		
4	Bhowra(N)	2	12
5	Bhowra (S)	1	12
6	Patherdih	1	20
	WJ		
1	Muralidih 20/21	1	10
2	Muralidih	1	20
3	Lohapatty	1	10
	CV		
1	Dahibari basantimata	4	40
	TOTAL	63	569

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Details of Fixed Sprinklers to be provided in BCCL Collieries

SN	Mine/colliery	Length of Fixed sprinklers(mtr) at sidings
1	Kustore	500
2	Satabdi	500
3	Muraidih	500
4	Nichitput	500
5	Jamunaia OC	800
6	Block-II OC	800
7	Kusunda	800
8	Lodna	1000
9	Dahibari-Basantimata	600
	Total	6000

धनबाद औद्योगिक कलस्टर के लिए तैयार कार्य योजना को अंतिम रूप दिए जाने हेतु प्रधान सचिव, वन एवं पर्यावरण विभाग की अध्यक्षता में स्टेक होल्डर्स के साथ सम्पन्न बैठक दिनांक 25.02.2011 की कार्यवाही -

उपस्थिति : सलंगन सूची के अनुसार (अनु0-1)

बैठक के प्रारम्भ में सदस्य सचिव, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद ने अवगत कराया कि धनबाद औद्योगिक कलस्टर क्रिटिकली पोल्यूटेड घोषित है। पर्यावरण एवं वन मंत्रालय, भारत सरकार, नई दिल्ली ने मार्च, 2011 तक की अवधि के लिए पर्यावरणीय स्वीकृति पर रोक लगा रखी है। अतः यह रोक प्रदूषण की रोकथाम हेतु तैयार कार्य योजना को अंतिम रूप दिए जाने एवं तदनुसार कार्य प्रारंभ किए जाने पर ही हटाया जायगा।

2. धनबाद के 'एक्शन प्लॉन' अर्न्तगत सभी स्टेक होल्डर्स के द्वारा प्रस्तावित कार्यों की विवरणी तैयार की गई है एवं इसकी प्रति सभी संबंधित को दी जा चुकी है। स्टेक होल्डर्स (Stake holders) में से मेसर्स भारत कोकिंग कोल लि0, इण्डस्ट्रीज एवं कॉमर्स एसोसिएशन एवं टाटा स्टील ने अपने-अपने लिखित प्रतिवेदन दिये। अन्य ने कोई लिखित प्रतिवेदन नहीं दिया। भारत कोकिंग कोल लि0 के द्वारा समर्पित अनुपालन संतोषजनक नहीं पाया गया। इण्डस्ट्रीज एण्ड कामर्स एसोसिएशन का प्रतिवेदन सिर्फ बी.हाईभ कोक ओभेन प्लांट्स से संबंधित है। प्रधान सचिव, वन एवं पर्यावरण विभाग ने निदेश दिया कि प्रस्तावित कार्य योजना के संदर्भ में सभी स्टेक होल्डर्स अपने-अपने प्रतिवेदन दिनांक 12.03.2011 तक राज्य पर्वद को सौंप दें।

कुछ बिन्दुओं यथा कोयला का परिवहन ढँके हुए वाहन से करने हेतु इतने लम्बे समय की मांग करने संबंधी बी0सी0सी0एल0 के प्रस्ताव पर असहमति व्यक्त की गयी एवं शीघ्र समय सीमा निर्धारित करने का निदेश दिया गया। ओभर बर्डन डम्प के फलस्वरूप प्रदूषण के बिन्दु पर निदेश दिया गया कि स्टेक होल्डर्स ऐसे सभी स्थलों का चयन अगली बैठक तक कर ले एवं toe wall, buttress wall (concrete) garland drain का कुल लक्ष्य क्या है और कब तक यह कार्रवाई कर ली जाएगी तथा पूर्व में कितना कार्य सम्पादित कर लिया गया है, के संबंध में पूर्ण जानकारी के साथ अगली बैठक में प्रतिवेदन प्रस्तुत करने का निदेश दिया गया

(कार्रवाई : सभी स्टेक होल्डर्स)

3. बैठक में यह आम सहमति बनी कि परित्यक्त खदान, पलाई ऐश एवं स्पंज आयरन संयंत्र से उत्सर्जित ठोस अपशिष्ट (solid waste) के निस्तारण के लिए सबसे उपयुक्त है। सी0सी0एल0 द्वारा कूजु, रजरप्पा एवं करगली कोलियरीयों में इन्हें निस्तारित करने की सुविधा प्रदान की जा रही है। भारत कोकिंग कोल लि0 के प्रतिनिधि ने बताया कि उनके कुसुण्डा क्षेत्र में यह सुविधा उपलब्ध है। निर्णय लिया गया कि सरकार द्वारा बी0सी0सी0एल0, ई0सी0एल0, टाटा स्टील एवं ईस्को के अध्यक्ष-सह-प्रबंध निदेशक को लिखा जाए कि वे टी0पी0पी0 (Thermal Power Plant) के पलाई ऐश एवं स्पंज आयरन संयंत्र के ठोस अपशिष्ट के निस्तारण के लिए त्यक्त खदान की पहचान कर disposal की सुविधा उपलब्ध करावें।

(कार्रवाई : वन एवं पर्यावरण विभाग)

4. क्षेत्रीय पदाधिकारी, क्षेत्रीय कार्यालय-सह-प्रयोगशाला, धनबाद को निदेश दिया गया कि वे सॉफ्ट कोक संयंत्र, रिफ्रेक्ट्रीज संयंत्र, स्टोन क्रशर्स, ब्रिक किल्न्स, स्पंज आयरन

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संयंत्रा इत्यादि के प्रतिनिधि की अनुपस्थिति के कारण इन इकाईयों के लिए प्रस्तावित एक्शन प्लान के बिन्दु पर प्रतिवेदन प्राप्त कर समर्पित करेंगे। उन्हें निदेश दिया गया कि वे समस्याओं के स्थलों को निर्दिष्ट कर सूचीबद्ध करेंगे।

(कार्रवाई : क्षेत्रीय पदाधिकारी, क्षेत्रीय कार्यालय-सह-प्रयोगशाला, धनबाद)

5. निदेश दिया गया कि नगरीय टोस अपशिष्ट, वाहन परिवहन, उद्योगों के स्थानान्तरण, विद्युत शवदाह गृह के लिए विभाग द्वारा उपायुक्त, धनबाद और इनसे संबंधित विभागों के प्रधान सचिवों/सचिवों को लिखा जाए एवं अगली बैठक में इन सभी बिन्दुओं पर टोस जवाब के साथ बैठक में भाग लिया जाए।

(कार्रवाई : वन एवं पर्यावरण विभाग)

6. बैठक में प्रधान सचिव, वन एवं पर्यावरण विभाग ने निदेश दिया गया कि स्टेक होल्डर्स/निकाय/संस्था/विभाग दिनांक 12.03.2011 तक राज्य पर्षद को उपलब्ध कराई गई एक्शन प्लान के परिप्रेक्ष्य में अपना प्रतिवेदन सौंप देंगे। राज्य पर्षद उनको संकलित करेगा। अगली बैठक दिनांक 15.03.2011 को वन एवं पर्यावरण विभाग में ही 3.00 बजे अपराह्न को होगी।

ह०/-

(ए०के० सरकार)

प्रधान सचिव,

वन एवं पर्यावरण विभाग

ज्ञापांक-3/पर्या०प्रदू०-04/2011...736/व०प०, राँची, दिनांक 5/3/2011

प्रतिलिपि-सदस्य/सचिव, झारखण्ड राज्य प्रदूषण नियंत्रण पर्षद, राँची/कार्यपालक अभियंता, एन०एच० आई०ए०, धनबाद/सभी स्टेक होल्डर्स/प्रबंध निदेशक, झरिया रिहैबिलिटेसन, प्लानिंग एण्ड डेवलपमेंट ऑथरिटी, राँची/ क्षेत्रीय पदाधिकारी, राज्य पर्षद, क्षेत्रीय कार्यालय-सह-प्रयोगशाला, धनबाद को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

(मुकेश कुमार वर्मा)

उप सचिव,

वन एवं पर्यावरण विभाग

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Annexure - III

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धनबाद औद्योगिक क्लस्टर के कार्य योजना के संदर्भ में प्रधान सचिव, वन एवं पर्यावरण विभाग, झारखण्ड सरकार, रॉची की अध्यक्षता में स्टेक होल्डर के साथ सम्पन्न द्वितीय बैठक दिनांक 26.03.2011 की कार्यवाही -

वन एवं पर्यावरण विभाग, झारखण्ड सरकार, रॉची के ज्ञापांक 736 दिनांक 05.03.2011 के क्रम में द्वितीय बैठक दिनांक 26.03.2011 के अपराह्न में हुई, जिसमें निम्नलिखित पदाधिकारियों ने भाग लिया (संलग्न सूची अनु0 1)

1. बैठक के प्रारम्भ में सदस्य सचिव, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद ने भारत सरकार के पर्यावरण एवं वन मंत्रालय द्वारा धनबाद औद्योगिक क्षेत्र में चार प्रखण्डों को critically polluted क्षेत्र घोषित किए जाने और नये उद्योगों की स्थापना पर 31.03.2011 तथा रोक लगाये जाने की सूचना दी एवं इसके परिपेक्ष्य में धनबाद के लिए बनाए जा रहे ऐक्शन प्लान को शीघ्रतापूर्वक लागू किए जाने की आवश्यकता बताई।

2. भारत कोकिंग कोल लि0 को निदेश दिया गया कि वे ट्रकों को ढँक कर ही कोयले का परिवहन करें एवं ट्रकों में ओवरलोडिंग की अनुमति नहीं दें। बी सी सी एल को निर्देश दिया गया कि ट्रान्सपोर्टर्स से इस आशय का लिखित समझौता करें। किसी भी स्थिति में खनिज का परिचालन खुले ट्रक में अथवा ओवरलोडेड ट्रक में नहीं करने का निदेश दिया गया। साथ ही निदेश दिया गया कि झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद, वायु (प्रदूषण निवारण एवं नियंत्रण) अधिनियम 1981 के तहत सभी इकाईयों को नोटिस निर्गत करे जिससे खनिज से लदे वाहन का परिचालन, ओवरलोडेड और बिना ढँके हुए नहीं करने का निदेश हो। इस संबंध में स्पष्ट निदेश दिया गया कि जो भी इकाई इसका उल्लंघन करता हो, उनके विरुद्ध कानूनी कार्रवाई आरम्भ की जाय।

(कार्रवाई - भारत कोकिंग कोल लि0, ईस्टर्न कोल फील्ड्स लि0, टाटा स्टील एवं ज़ा0 रा0 प्रदू0 लि0 पर्वद)

3. भारत कोकिंग कोल लि0, धनबाद को निदेश दिया गया कि धूल को दबाने के लिये चलन्त स्पिंकलर्स चलाए और पिट हेड एवं रोड के किनारे fixed sprinklers स्थापित कर चलाएँ। झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद के क्षेत्रीय पदाधिकारी को निदेश दिया कि वे बी सी सी एल और सभी इकाईयों के प्रत्येक खनन क्षेत्र की जाँच करें और इकाईयों के द्वारा की गई व्यवस्था पर्याप्त है या नहीं इसकी सूचना अगली बैठक में दें। सभी कोयला कम्पनी के अन्दर mobile water sprinklers की संख्या की जानकारी 15 दिनों के अन्दर पर्वद को देने का निदेश दिया गया।

RECEIVED	SP/OPS
SECRETARY	W&E
CHANDER	RAO
✓	

652

ओ बी डम्प, नदी में या प्राकृतिक नाले में जाने से रोकने हेतु बी सी सी एल / ई सी एल को अविलम्ब कारगर कार्रवाई हेतु निदेश दिया गया एवं क्षेत्रीय पदाधिकारी, धनबाद को भी निदेश दिया गया कि वे ऐसे सभी खदानों का निरीक्षण कर सूचित करें कि प्रत्येक खदान में कितनी लम्बाई का Toe Wall, buttress wall, garland drain की आवश्यकता है। बी सी सी एल द्वारा समर्पित प्रतिवेदन में इसके निर्माण हेतु दर्शायी गई समयावधि को काफी ज्यादा पाया गया और निदेश दिया गया है कि इसे कम किया जाए।

(कार्रवाई – भारत कोकिंग कोल लि०/ई० सी० एल० एवं क्षेत्रीय पदाधिकारी)

4. भारत कोकिंग कोल लि० को निदेश दिया गया कि वे अपने कोलवाशरियों एवं कोलवाशियों के जोखिमयुक्त अपशिष्ट (hazardous waste) यथा मॉबिल बैटरी आदि के लिए राज्य पर्वद से प्राधिकरण प्राप्त करें। क्षेत्रीय पदाधिकारी, धनबाद को निदेश दिया गया कि वे बैटरीज (प्रबंधन एवं हथालन) नियमावली को अनुपालन की स्थिति का जायजा लेकर प्रतिवेदित करें।

(कार्रवाई – भारत कोकिंग कोल लि०/क्षेत्रीय पदाधिकारी)

5. वन प्रमंडल पदाधिकारी, धनबाद वन प्रमंडल को निदेश दिया गया कि भारत कोकिंग कोल लि० के क्षेत्र में वृक्षारोपण योग्य क्षेत्रों की पहचान कर प्रतिवेदित करें।

(कार्रवाई – वन प्रमंडल पदाधिकारी / क्षेत्रीय पदाधिकारी)

6. बैठक में विभिन्न विभागों, इकाईयों द्वारा दिनांक 25.02.2011 की बैठक में लिए गए निर्णयानुसार दिनांक 12.03.2011 तक प्रतिवेदन झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद को नहीं समर्पित करने पर अप्रसन्नता व्यक्त की गई एवं निदेश दिया गया कि अगली बैठक, जो दिनांक 20.04.2011 को उपायुक्त, धनबाद के सभा कक्ष में होगी, के पूर्व लिखित प्रतिवेदन पर्वद को सौंप दें, जिससे कि प्रतिवेदन की समीक्षा बैठक के पूर्व की जा सके।

(कार्रवाई – सभी स्टेक होल्डर)

7. वायु प्रदूषण की रोकथाम हेतु समर्पित कार्य योजना में बी सी सी एल के द्वारा मात्र 6 ऐरिया के संबंध में हॉउल रोडस् (haul road) के संबंध में सूचना उपलब्ध कराने को पर्याप्त नहीं समझा गया और निदेश दिया गया कि वे अपने सभी खुली खदान परियोजना के हाउल रोडस (haul road) के संबंध में सही आकलन करें और कब तक यह कार्य पूरा हो जाएगा, इसकी सूचना अगली बैठक में प्रस्तुत करें। इस बीच क्षेत्रीय पदाधिकारी भी BCCCL के सभी खदानों का निरीक्षण कर अवगत कराएँ कि खदानवार क्या लक्ष्य है।

(कार्रवाई – सभी स्टेक होल्डर और क्षेत्रीय पदाधिकारी)

8. वायु की गुणवत्ता में सुधार, जल की गुणवत्ता एवं wholesomeness के restoration, भूतल के Topography के restoration के एवं जैव विविधता के restoration के लिए कार्ययोजना में ट्रकों के चालन एवं dust suppression: खदान जल, वर्षा जल, बहिस्त्राव मल जल, इत्यादि के

प्रबंधन; ओवरबर्डन एवं रिजेक्ट प्रबंधन, इत्यादि के संदर्भ में कार्ययोजना में कार्य प्रस्तावित हैं । भारत कोकिंग कोल लि० ने इन्हें संपादित करने में जो कठिनाई बताई है स्वीकार्य नहीं है क्योंकि विकल्प उपलब्ध है और Comprehensive Environmental Pollution Index (CEPI) score के घटे बिना वहाँ से moratorium lift नहीं किया जा सकता है और उन्हें खनन की अनुमति नहीं दी जा सकती है ।

(कार्रवाई – भारत कोकिंग कोल लि० / क्षेत्रीय पदाधिकारी)

9. STP के निर्माण के संबंध में किसी भी कोल कम्पनी से कोई संतोषप्रद जवाब नहीं मिला। निदेश दिया गया कि सभी पुराने टाउनशिप में ए० टी० पी० का निर्माण किया जाए। नए टाउनशिप के निर्माण के साथ ही एस टी पी का निर्माण भी किया जाए। क्षेत्रीय पदाधिकारी सूचित करेंगे कि कहाँ-कहाँ एस टी पी की आवश्यकता है ।

(कार्रवाई – सभी स्टेक होल्डर्स / क्षेत्रीय पदाधिकारी)

10. विगत बैठक में निर्णय हुआ था कि सभी कोल कम्पनी अपने voids की सूचना उपलब्ध करायेंगे । इ सी एल (ECL) के द्वारा मुगमा एरिया में 4 क्वैरी की सूचना दी गई परन्तु बी सी सी एल के द्वारा किसी voids की सूचना नहीं दी गई। अगली बैठक में बी सी सी एल को अपने voids की सूची देने का निदेश दिया गया ।

(कार्रवाई – भारत कोकिंग कोल लि०)

11. Bee- Hive coke oven plants के संबंध में श्री एस० के० सिंह , पूर्व सदस्य सचिव, झारखण्ड राज्य प्रदूषण नियंत्रण पर्षद ने वायु प्रदूषण की रोकथाम हेतु इकाईयों द्वारा उठाये गये कदमों की जानकारी दी । क्षेत्रीय पदाधिकारी, धनबाद को निदेश दिया गया कि वे अगली बैठक में स्पष्ट सूचना दें कि कितने इकाईयों के द्वारा संशोधित चिमनी डिजाइन की योजना को लागू कर लिया गया है और कितने में लगाना बाकी है । दिनांक 20.04.2011 की बैठक के पूर्व इस संबंध में स्पष्ट सूचना दी जाय ।

(कार्रवाई – क्षेत्रीय पदाधिकारी/क्षेत्रीय कार्यालय, धनबाद)

12. वाहन जनित वायु प्रदूषण की रोकथाम हेतु सदस्य सचिव, प्रदूषण नियंत्रण पर्षद ने 15 वर्ष पुराने वाहनों के परिचालन पर रोकथाम, शहरी क्षेत्र में ट्रक और डीजल टेम्पों के परिचालन पर रोकथाम हेतु कार्रवाई की आवश्यकता बताई । इसके संदर्भ में उपायुक्त, धनबाद ने अवगत कराया कि इस प्रकार का आदेश परिवहन विभाग, झारखण्ड द्वारा निकाला जाना उपयुक्त होगा । सदस्य सचिव, प्रदूषण नियंत्रण पर्षद को निदेश दिया गया कि वे एक प्रस्ताव तैयार कर विभाग को भेजें जिसके आधार पर वन एवं पर्यावरण विभाग द्वारा परिवहन विभाग को पत्र भेजा जाएगा ।

(कार्रवाई – झारखण्ड राज्य प्रदूषण नियंत्रण पर्षद)

650

13. बैठक में यह भी निर्णय हुआ कि धनबाद एक्शन प्लान पर अगली एवं अंतिम बैठक दिनांक 20.04.2011 को उपायुक्त, धनबाद के बैठक कक्ष में 12:00 बजे दिन में धनबाद में होगी एवं इस बैठक में पूर्व एक्शन प्लान के सभी बिन्दुओं पर सभी स्टोक होल्डर्स अपना लिखित प्रतिवेदन पर्वद मुख्यालय को निश्चित रूप से उपलब्ध करा देंगे ।

ह०/-
(ए० के० सरकार)
अपर मुख्य सचिव,
वन एवं पर्यावरण विभाग,
झारखण्ड, राँची

ज्ञापांक-3/पर्या०प्रदू०-04/2011/व०प०, राँची, दिनांक/

प्रतिलिपि: सभी स्टोक होल्डर्स को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित । अनुरोध है कि उपर्युक्त निदेशों का अनुपालन प्रतिवेदन अगली बैठक के पूर्व झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद के मुख्यालय को उपलब्ध करावें ।

ह०/-
(मुकेश कुमार वर्मा)
सरकार के उप सचिव ।

ज्ञापांक-3/पर्या०प्रदू०-04/20111415.../व०प०, राँची, दिनांक15/4/2011...../

प्रतिलिपि-सदस्य सचिव, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद, राँची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित ।

अनुरोध है कि अपने स्तर से कार्यवाही की प्रति सभी स्टोक होल्डर्स को उपलब्ध कराने की कृपा की जाय ।

सरकार के उप सचिव ।

पत्र संख्या-3/पर्या0प्रदू0- 04/2011- 1417 व0प0

झारखण्ड सरकार
वन एवं पर्यावरण विभाग

प्रेषक,

मुकेश कुमार वर्मा,
सरकार के उप सचिव।

सेवा में,

1. अपर मुख्य सचिव,
स्वास्थ्य, चि0शि0 एवं प0क0 विभाग, झारखण्ड, रांची।
2. सचिव, उद्योग विभाग, झारखण्ड, रांची।
3. सचिव, नगर विकास विभाग, झारखण्ड, रांची
4. अध्यक्ष-सह-प्रबंध निदेशक,
बी0सी0सी0एल0 कोयला भवन, धनबाद,
5. महाप्रबंधक,
ईस्टर्न कोलफील्ड्स लि0 पो0-मुगमा, जिला-धनबाद।
6. मंडल रेल प्रबंधक, पूर्व रेलवे, धनबाद,
7. जेनरल मैनेजर,
इंडियन आयरन एण्ड स्टील कंपनी लि0, चासनाला वर्क्स, धनबाद,
8. निदेशक, आई0एस0एम0, धनबाद
9. निदेशक, सी0आई0एम0एफ0आर0, धनबाद,
10. जेनरल मैनेजर, पी0डी0आई0एल0, सिन्दरी, धनबाद।
11. सिविल सर्जन, धनबाद।
12. जिला परिवहन पदाधिकारी, धनबाद।
13. मुख्य कार्यपालक पदाधिकारी,
धनबाद नगर निगम, धनबाद।
14. कार्यपालक पदाधिकारी, झरिया नोटिफाईड कमिटी
झरिया, धनबाद।
15. जेनरल मैनेजर, टाटा स्टील, जामाडोबा वर्क्स, धनबाद।
16. श्री बी0एन0सिंह, प्रेसिडेन्ट,
इंडस्ट्रीज एण्ड कॉमर्स एसोसिएशन, हीरापुर, धनबाद।
17. सदस्य सचिव, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद, रांची।

60
18/4

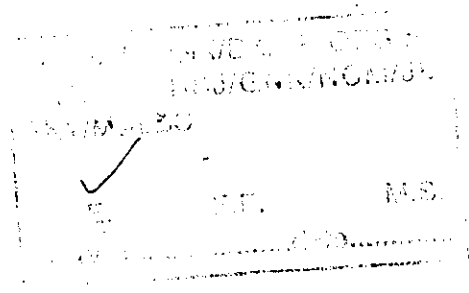
विषय-

रांची, दिनांक - 15/4/2011
धनबाद औद्योगिक क्लस्टर के लिए तैयार कार्य योजना को अंतिम रूप देने हेतु
स्टैक होल्डर्स की बैठक आयोजित करने के संबंध में।

महाशय,

उपर्युक्त विषय के संदर्भ में निदेशानुसार सूचित करना है कि स्टैक होल्डर्स (Stake holders) की बैठक धनबाद उपायुक्त के सभा कक्ष में दिनांक 20.04.2011 को 12.00 बजे दिन में उपायुक्त , धनबाद की अध्यक्षता में आयोजित की गई है। इसमें पिछले बैठक में लिये गये निर्णयों की समीक्षा की जायेगी तथा प्रस्तावित Action Plan (जिसकी प्रति आपको पूर्व में उपलब्ध करा दी गई है) के संबंध में आपके इकाई संस्थान द्वारा क्या कार्य योजना है तथा कब तक कार्य पूरा कर लिया जाएगा, की स्पष्ट सूचना एवं प्रतिवेदन आवश्यक है।

अनुरोध है कि वांछित प्रतिवेदन एवं सभी आवश्यक सूचना के साथ स्वयं अथवा किसी प्रतिनिधि के माध्यम से इस बैठक में निर्धारित समय पर भाग लेने की कृपा की जाय जिससे कार्य योजना को अंतिम रूप दिया जा सके।



विश्वासभाजन,
(मुकेश कुमार वर्मा)
सरकार के उप सचिव।

Ref: MPL/CEO/F-07/2011/ATR_TPPS

Date: 18.04.2011

The Member Secretary,
 Jharkhand State Pollution Control Board,
 TA Division Building (Ground Floor), HEC,
 Dhurwa, Ranchi - 834004

Dear Sir,

Sub: Your Notification No D-2 dated 07-D2-2011.

Ref: Annexure VI(B) Summary of proposed action Plan for Thermal Power Plants.

With reference to the above, we are herewith submitting point wise actions taken with regards to the summary of proposed action Plan for Thermal Power Plants.

Sl.No	Action Points	Action Plans for stake Holders	Action taken Status
1	The Ambient air of the premises of Thermal Power Plants remains dusty due to pliance of uncovered Trucks and on ash dumps and due to uncovered processing of ash. The chimneys of boilers too emit ash.	<p>(a)Covering of Loaded transport vehicles will be compulsory from. 31.03.2011</p> <p>(b)All Haul Roads will be made pucca, by. New haul roads will be taken in use after making it pucca from. 30.06.2011.</p> <p>(c)All Ash Dumps will be enclosed by pucca boundary to prevent entry through them. 30.6.2011</p> <p>(e)All processing of ash will be done in covered space. 31.3.2012.</p> <p>(f) The Chimneys of all Boilers will be equipped with ESPs with on-line monitoring systems.</p>	<p>(a) Fully covered Dumpers / Hyvas are used for transporting coal to the plant.</p> <p>(b) Approach and access roads of the Plant are made Paved or RCC i.e. "pucca"</p> <p>(c) Ash Dyke has been constructed as brick lined with additional LDPE Lining. Inside of the ash pond will be in wet condition always and this will prevent fugitive emission of ash particles.</p> <p>(e) It is ensure that all processing areas are covered properly as designed.</p> <p>(f)ESP's between Boiler and Chimney are already installed and commissioned with on line monitoring system.</p>

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2	<p>Surface run-off , ash slurry cooling water blow-down, boiler blow-down and wash water/ effluent later or sooner find way to the river and pollute them.</p>	<p>(a)The flow of surface run-off of the premises of TPPs shall be directed to abandoned or in operative mines, which will be covered into water bodies.</p> <p>(b)The wastewater shall be passed through oil separator-cum-filtration system and then discharged to newly created water bodies.</p> <p>(c)The other waste water shall be in close-circuit.</p> <p>(d)Township-wise STP shall be installed</p>	<p>MPL plant is designed as a zero discharge Plant.</p> <p>Flow of surface run-off is being directed through settling chambers properly designed with the Geo- textile membranes.</p> <p>Collection of Sludge and oil separation units are installed and the recycle water will be used for plantation and ash slurry preparation.</p> <p>All waste water are in our close-circuit.</p> <p>Separate STP is planned for Plant and township.</p>
3	<p>Ash and hazardous solid wastes are the main problems of TPPs. Dry ash has use in cement making and as landfill. Besides, the hazardous wastes are also generated. They are recyclable and incinerable in ovens.</p>	<p>(a)Dry ash collection system shall be installed and dry ash sale cement mills shall be resumed.</p> <p>(b)All ash shall be disposed of by utilization or sale and it will be continued from.</p> <p>(c)All hazardous wastes shall be disposed of to its reprocessor or coprocessor and its continuity shall be resumed.</p>	<p>MPL has tied up with various agencies to effect 100% dry Fly ash off-take and filling of the abandoned ECL Mines using Fly / Bottom ash. Allocation of four mines received from ECL for filling up Ash.</p> <p>Planning to dispose the hazardous waste to reprocessor units like fly Ash Bricks has been taken up.</p>

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4	Due to discharge of emissions and wastewater of TPPs, the bio diversity of plant species, terrestrial animals and aquatic organism have adversely been affected.	<p>(a)The plantation of saplings for creation of tree and forest cover of local species.</p> <p>(b)The conversion of abandoned / inoperative mines into water bodies.</p> <p>(c)The charging of seeds of local aquatic organisms.</p>	MPL is developing green belt covering 30 per cent of the project land area for sustainability and ensuring bio-diversity.
5	Action for maintenance and continuity of condition of good and aesthetic environment and compliance of legal provisions	<p>(a)Monitoring of online ambient air-reporting every month, online emission-reporting every month, online effluent-reporting every month, downstream surface water-reporting every month, ground water-reporting every month, disposal of fly ash-reporting every quarter, hazardous wastes-reporting every six months and tree plantation-reporting every year: Assurance</p> <p>(b)Introduction of GIS/GPS for continous recording: Assurance</p> <p>(c)Every week broadcasting through TV and radio: Assurance</p>	Regular monthly monitoring of ambient air, water and noise is being conducted through an agency, duly approved by JSPCB at the pre-commissioning stage and will be continued in the post commissioning stage also. The six monthly monitoring reports is being sent to MOEF & JSPCB.

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As stated herein above we are fully compliant with the action points designed in the notification no D-2 dated 07.02.2011. We have also planned for an Expansion project at the Maithon Site with no additional requirement of land.

We are enclosing herewith the vicinity map of the plant which clearly shows that our plant site and the proposed expansion site are outside the periphery of critical polluting Industrial belt of Govindpur, Katras and few areas of Nirsa and Mugma area, ie (within the range of 8-10 Km).

We are also enclosing a test report of Ambient Air Quality, conducted by the JSPCB, Dhanbad RO, which clearly shows that the air quality results at various location inside the plant site are well within the tolerable limits.

In view of above, it is proposed that the Maithon Stage -2 expansion project may be exempted from the moratorium on critically polluted areas of Dhanbad.

Thanking you,

Yours truly,

Praveen Chorghade,
Chief Executive Officer.

Encl: As above .

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धनबाद औद्योगिक क्लस्टर के कार्य योजना के संदर्भ में उपायुक्त, धनबाद की अध्यक्षता में दिनांक 20/4/2011 को सभी स्टैक होल्डर्स के साथ सम्पन्न हुई तृतीय बैठक की कार्यवाही।

वन एवं पर्यावरण विभाग, झारखण्ड सरकार, राँची का ज्ञापांक 736, दिनांक 05.03.2011 के क्रम में तृतीय बैठक दिनांक 20.04.2011 को सम्पन्न हुई जिसमें निम्नांकित पदाधिकारियों ने भाग लिया (सूची संलग्न)

1. बैठक के प्रारम्भ में सदस्य सचिव, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद ने धनबाद जिले में प्रदूषण को बढ़े हुए स्तर के कारण हुए पर्यावरण एवं वन मंत्रालय, भारत सरकार ने इस क्षेत्र को Critically Polluted क्षेत्र घोषित करते हुए नए उद्योग खोलने पर मोराटोरियम लगाने की सूचना दी है, जिसकी अवधि 30.09.2011 तक है। इस कारण उक्त तिथि तक इन क्षेत्रों में नए उद्योगों की स्थापना नहीं की जा सकेगी। इस परिपेक्ष्य में धनबाद के लिए बनाए जा रहे ऐक्सन प्लान को शीघ्रताशीघ्र अन्तिम रूप देकर पर्यावरण एवं वन मंत्रालय, भारत सरकार को भेजने की आवश्यकता बतायी गई।
2. बैठक के प्रारम्भ में हार्ड कोक प्लांट्स के प्रतिनिधि ने पूर्व में प्रदत्त कार्यावली के अनुपालन के क्रम में बताया कि कुल 117 इकाइयों में से 18 ने चिमनी से उत्सर्जित गैसों में धूलकण की मात्रा 150 mg/Nm^3 तक लाने हेतु ओभन रो जुडे चिमनी में आवश्यक सुधार कर लिया गया है। 66 ने अभी कार्य मात्र प्रारम्भ किया है जबकि 33 ने इस सम्बन्ध में कार्य प्रारम्भ तक नहीं किया है। उपायुक्त ने इन 99 हार्ड कोक इन्डस्ट्रीज को तत्काल प्रभाव से बन्द करने हेतु झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद के स्तर से अविलम्ब कार्रवाई करने का निदेश दिया। चिमनी में आवश्यक सुधार कर लेने के उपरान्त ही पर्वद द्वारा आवश्यक कन्सेन्ट दिया जाए। उपायुक्त ने यह भी निदेश दिया कि क्षेत्रीय पदाधिकारी प्रदत्त ऐक्सन प्लान का implementation report यथा शीघ्र उपलब्ध करायेंगे।

जिला खनन पदाधिकारी द्वारा सूचित किया गया कि कुछ सौपट कोक इकाइयों जिन्हें कोयला जे0एस0एम0डी0सी0 द्वारा उपलब्ध कराया जाता है, द्वारा खुले में सौपट कोक बनाया जाता है। इस सम्बन्ध में निर्णय लिया गया कि ऐसे इकाइयों के बारे में जिला खनन पदाधिकारी क्षेत्रीय पदाधिकारी, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद, धनबाद को सूचित करेंगे एवं उन्हें तत्काल प्रभाव से बन्द करने की कार्रवाई करेंगे।

क्षेत्रीय पदाधिकारी द्वारा सूचित किया गया कि 08 फायर ब्रिक्स बनाने वाली इकाइयों tunnel & Chamber Kiln के साथ कार्य करती है, जिनका emission level निर्धारित गानक के अन्दर है। अन्य सभी इकाइयों से उत्सर्जित गैसों में SPM की मात्रा निर्धारित गानक से अधिक रहती है। ऐसे इकाइयों को बन्द करने का आदेश दिया गया।

स्टोन क्रशर के कोई प्रतिनिधि बैठक में उपस्थित नहीं हुए। इस सम्बन्ध में निर्णय लिया गया कि जो इकाइयों बगैर एन0ओ0सी0/सहमति आदेश के कार्यरत है, उन्हें बन्द कर दिया जाय। इस सम्बन्ध में क्षेत्रीय पदाधिकारी पर्वद मुख्यालय को 15 दिनों के अन्दर सूचित करेंगे। तदनुरूप पर्वद सम्बन्धित इकाइयों को बन्दी आदेश निर्गत करेगा एवं यदि इसके बाद भी कोई इकाई चालू पाया जाता है, तो इकाई के विरुद्ध मुकदमा दायर करने की कार्रवाई की जाए।

प्रदूषण नियंत्रण पर्वद धनबाद।

3. (i) ई0 सी0 एल0 प्रबन्धन द्वारा सूचित किया गया कि उनके सभी 04 dumpers द्वारा तारपोलीन से ढककर कोयला की ढुलाई की जाती है, एवं 07 प्राईवेट डम्परों को भी आवश्यक निदेश दिया गया है। परन्तु इस सम्बन्ध में कार्यादेश की प्रति नहीं उपलब्ध करायी। ECL के द्वारा कार्यादेश की प्रति उपलब्ध करायी गयी, परन्तु उसमें ट्रकों को ढकने के सम्बन्ध में कोई जिक्र नहीं है। ओभर लोडिंग नहीं हो इसके निमित्त ट्रान्सपोर्टर्स से एग्रीमेंट में ही प्रावधान करने का निदेश उपायुक्त द्वारा दिया गया। क्षेत्रीय पदाधिकारी प्रदूषण नियंत्रण पर्वद ने सूचित किया कि अभी भी विभिन्न इकाईयों के ट्रक बगैर ढके हुए चल रहे हैं।

वायु प्रदूषण की रोकथाम के संबंध में प्रबन्धन ने सूचित किया कि तीन में से दो हॉल रोड को वोल्डर पिचिंग किया गया है। इन स्थानों पर fixed sprinkler लगाने का निदेश दिया गया है। इनके यहाँ ओ0 वी0 डम्प में टो वाल की आवश्यकता नहीं है। 20 में से 04 ओ0 कास्ट परित्यस्त खदानों को Water bodies के रूप में परिवर्तित किया गया है। Town Ship में STP नहीं है। इसके निर्माण हेतु 31.03.2012 तक का समय दिया गया।

इनके वर्कशाप से उत्पन्न होने वाले खतरनाक अपशिष्ट के संबंध में निदेश दिया गया कि इकाई Hazardous Waste (Management Handling and Transboundary) Rule, 2008 के तहत प्राधिकरण प्राप्त करने की कार्रवाई करें। बी0सी0सी0एल0 को भी उक्त नियम के अन्तर्गत प्राधिकरण प्राप्त करने का निदेश दिया गया।

इ0सी0एल0 ने वृक्षारोपण के सम्बन्ध में अवगत कराया कि कि यह समुचित मात्रा में किया गया है, तथापि अन्य स्थानों पर सम्बन्धित वन प्रमण्डल पदाधिकारी के सहयोग से इसे किया जायगा। इस सम्बन्ध में विस्तृत कार्यक्रम उपलब्ध कराने को कहा गया। प्रबन्धन ने बताया कि इनके यहाँ underground coal firing का मामला नहीं है।

कार्रवाई-इ0सी0एल0 एवं बी0सी0सी0एल0।

- (ii) भारत कोकिंग कोल लिमिटेड:- इराके प्रतिनिधि ने बार-बार निदेश के बाद भी अद्यतन Action Taken Report सम्बन्धी अपना प्रतिवेदन उपलब्ध नहीं कराया। प्रतिनिधि ने आश्वासन दिया कि वे अतिशीघ्र विस्तृत प्रतिवेदन उपलब्ध करा देंगे।

प्रबन्धन ने यह भी सूचित किया कि वर्तमान में कुल 63 खदान चल रहे हैं, जिसमें से 48 एवं 15 क्रमशः भूमिगत तथा खुला खादान है। 15 ऐसे खदान हैं, जो वर्तमान में पूर्णतया बन्द हैं एवं इसमें उत्पादन नहीं हो रहा है।

निदेश दिया गया कि सभी कोयला ढुलाई करने वाले ट्रक को ट्रान्सपोर्ट रोड पर पूरी तरह ढक कर ही चलाने की व्यवस्था करने का निदेश दिया जा चुका है। बैठक में निर्णय लिया गया कि अब ऐसे वाहनों जो बगैर ढके हुए चलेंगे, उनके विरुद्ध वायु (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1981 के तहत कार्रवाई

की जायगी। ओवर लोडिंग नहीं हो इसके लिए विभिन्न ट्रान्सपोर्टर से एग्रीमेंट में ही प्रावधान करने का निर्देश उपायुक्त द्वारा दिया गया। यह भी निर्देश दिया गया सभी ट्रान्सपोर्ट रोड को 30.09.2011 तक पक्का कर ले एवं जल छिड़काव की पूरी व्यवस्था करें। इसके बाद इनके विरुद्ध कार्रवाई की जायगी।

जिन 15 खदानों में उत्पादन नहीं हो रहा है, उन्हें Water bodies बनाने सम्बन्धी अध्ययन के लिए निर्देश दिया गया। यह अध्ययन CMRI के सहयोग से करने का भी निर्देश दिया गया। ओवर वर्डन (ओ0 वी0) के सम्बन्ध में प्रतिनिधि द्वारा बताया गया कि उनके द्वारा किसी नदी में कोई ओ0 वी0 डाला नहीं गया है, जबकि क्षेत्रीय पदाधिकारी, धनबाद ने सूचित किया कि इनके दोमोदा कोलियरी, मुराइडीह कोलियरी, जमुनिया ओ0 सी0 पी0, गजली टॉड कोलियरी द्वारा क्रमशः जमुनियाँ नदी, खोदों नदी एवं कतरी नदी में O.B. dump किया गया है। इसी तरह इनके सम्बन्धित कोलियरियों द्वारा कुमरीजोर एवं सेन्द्रराजोर के किनारों पर O.B. dump किया गया है। इस सम्बन्ध में निर्देश दिया गया कि इसे हटाने या फिर सम्बन्धित कार्य हेतु आवश्यक कार्रवाई कर शीघ्र सूचित करें। यह भी निर्देश दिया गया कि CMRI के सहयोग से यह अध्ययन करें कि इन डम्पस के कारण नदियों के बहाव में कोई प्रभाव पड़ा है या नहीं। साथ ही deep mining के कारण river flow deplete हुआ है या नहीं।

बी0सी0सी0एल0 के प्रतिनिधि ने सूचित किया कि आगामी तीन वर्षों में 175 एकड़ भूमि में वृक्षारोपण किया जायगा। परन्तु कोई कार्ययोजना उपलब्ध नहीं कराया गया। इस सम्बन्ध में उपायुक्त ने निर्देश दिया कि सम्बन्धित वन प्रमण्डल पदाधिकारी से मिलकर विस्तृत कार्य योजना उपलब्ध कराने को कहा गया। 41 में से 11 कोलियरियों जिसमें आग लगी है, को अलग-थलग किया गया है, जैसा कि सूचित किया गया। अन्य के बारे में विस्तृत प्रतिवेदन एक माह के अन्दर उपलब्ध कराने का निर्देश दिया गया।

टाटा स्टील के प्रबन्धन ने बताया कि उनके यहाँ आग का कोई मागला अब नहीं है।

Monitoring of ambient air, surface water, ground water, disposal of O.B., fire extinguishing आदि के बारे में action plan में दिए गए कार्यक्रम के अनुसार ही करने का निर्देश दिया गया।

कार्रवाई— बी0सी0सी0एल0 एवं क्षेत्रीय पदाधिकारी, क्षेत्रीय कार्यालय सह प्रयोगशाला, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वट, धनबाद।

4. कोलवाशरी के क्रम में सभी वाशरियों द्वारा प्रदत्त action plan के सभी बिन्दुओं का अनुपालन सभी सम्बन्धित कम्पनियों को 15 दिनों के अन्दर करने का निर्देश उपायुक्त द्वारा दिया गया। किसी भी नदी में अनुपचारित जल का बहिष्प्राव नहीं करने का निर्देश दिया गया।

कार्रवाई— बी0सी0सी0एल0 तथा टाटा स्टील, जामाडोबा एवं अन्य रटेक होल्डर्स।

विचार किया जाना है। वी०टी०पी०स० एवं टी०टी०पी०एस० ने अब तक action taken report नहीं उपलब्ध कराया है।

कार्रवाई-झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद, वी०टी०पी०स० एवं टी०टी०पी०एस०।

8. रेलवे बोर्ड, धनबाद मण्डल के कोई प्रतिनिधि बैठक में उपस्थित नहीं हुए। इससे सम्बन्धित action plan पर चर्चा नहीं हुई।

ज्ञापांक 985/गो०

धनबाद, दिनांक 20/5/2011-

प्रतिलिपि-सदस्य सचिव, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद, राँची को सूचनाार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। अनुरोध है कि इसकी प्रति सभी स्टोक होल्डर्स को देते हुए action taken report प्रदत्त समय सीमा के अन्दर प्राप्त करने हेतु उन्हें निदेश दिया जाय।

उपायुक्त, धनबाद

Annexure V

1043



सारखण्ड राज्य प्रदूषण नियंत्रण पण्डित
क्षेत्रीय कार्यालय-सह-प्रयोगशाला

फोन नं 0326 2204933

III C O. I., हाजसिंग कोलोनी, बरटांड, धनबाद।

पत्रांक : 4674

दिनांक : 28/9/2011

सेवा में

दिनेश प्रसाद सिंह,
देशीय पदाधिकारी।

सदस्य

सदस्य साचिव,
सारखण्ड राज्य प्रदूषण नियंत्रण पण्डित,
राज्या।

विषय : धनबाद औद्योगिक क्लस्टर के सदस्य में स्टैक हाइल्ड्स को दिनांक २६.९.११ को बैठक का
परिणामों के संबंध में।

महोदय,

उपयुक्त विषय के संबंध में कहना है कि दिनांक २६.९.११ को उपयुक्त, धनबाद को अध्यक्षता
में स्टेक होल्डर्स की बैठक उगाहू की गई थी। बैठक की कार्यवाही एवं उसका अनुसूचित क्रम ०१ पेज
सलगन कर अग्रतर करवाया हेतु भंजी जा रही है।

सूचनाएं एवं आवश्यक कारवाइ हेतु प्रेषित।
अनु. : पत्रांक 17 पैग।

विश्यासभाजन

(दिनेश प्रसाद सिंह)
देशीय पदाधिकारी।

adhir K.E.E

29/9

Mr. H.S. Jha.
28/9/11

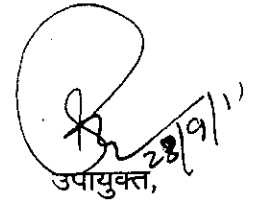
9528
29/9/11

धनबाद औद्योगिक क्लस्टर के कार्य योजना के संदर्भ में उपायुक्त, धनबाद की अध्यक्षता में दिनांक २६.६.११ को पर्वद के अधिसूचना सं० डी०- ०२ दिनांक ७.२.११ द्वारा गठित सभी स्टैक होल्डर्स के साथ सम्पन्न हुई चौथी बैठक की कार्यवाही।

धनबाद औद्योगिक क्लस्टर के कार्य योजना के संदर्भ में उपायुक्त, धनबाद की अध्यक्षता में दिनांक २६.६.११ को सभी स्टैक होल्डर्स के साथ चौथी बैठक सम्पन्न हुई जिसमें अधोहस्ताक्षरी के अतिरिक्त बी०सी०सी०एल०, टिस्को, ई०सी०एल० एवं ईस्को, के प्रतिनिधि बी०हाईब कोक प्लांट एसोसिएसन, झारखण्ड रिफ्रेक्टोरी एसोसिएसन के प्रतिनिधि, ब्रिक निर्माता मालिक संघ के प्रतिनिधि, जिला परिवहन पदाधिकारी, आई०एस०एम० के प्रतिनिधि, सिम्फर के प्रतिनिधि, जिला खनन विभाग के प्रतिनिधि, माडा के प्रबंध निदेशक एवं प्रदूषण नियंत्रण पर्वद के पदाधिकारीगण ने भाग लिया।

१. बैठक के प्रारंभ में क्षेत्रीय पदाधिकारी, झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद, ने विभिन्न स्टैक होल्डर्स द्वारा कार्य योजना के संदर्भ में जमा की गई अनुपालन प्रतिवेदन की जानकारी दी।
२. क्षेत्रीय पदाधिकारी, प्रदूषण नियंत्रण पर्वद ने कहा कि धनबाद जिला में अवस्थित १२२ हार्ड कोक यूनिट में से ११५ ने वायु प्रदूषण नियंत्रण व्यवस्था कर लिया है, ५ यूनिट बंद हैं एवं २ ने व्यवस्था नहीं की है। उपायुक्त द्वारा इन दोनों यूनिट को बंद करने के लिए कहा गया। जिला में अवस्थित १८२ स्टोन कसर में से ३४ द्वारा चाहरदीवारी, कसर/स्क्रीन को ढकने का कार्य कर लिया है। शेष को पर्वद द्वारा वायु प्रदूषण नियंत्रण करने का निदेश दिया गया है।
३. उपायुक्त द्वारा कार्य योजना के सभी बिन्दुओं पर संबंधित प्रतिनिधि से जानकारी मांगी गई एवं इसकी समीक्षा की गई। बी०सी०सी०एल०, ई०सी०एल०, टिस्को वगैरह सभी स्टैक होल्डर्स के प्रतिनिधियों द्वारा कार्य योजना के बिन्दुओं के अनुपालन की जानकारी दी गई। विभिन्न स्टैक होल्डर्स द्वारा जमा की गई/ बैठक में दी गई सूचना के अनुरूप अलग से परिशिष्ट संलग्न की जा रही है।
४. धनबाद नगर निगम एवं रेलवे के प्रतिनिधि अनुपस्थित थे। नगर निगम द्वारा ठोस कचरा के निष्पादन हेतु निविदा को अंतिम रूप दे दिया गया है। स्पंज आयरन प्लांट धनबाद जिला में ०२ हैं जिसमें काफी समय से उत्पादन बंद है। सॉफ्ट कोक प्लांट छोटे आकार के हैं। इसमें अधिकतर समय उत्पादन बंद रहती है।

उपायुक्त द्वारा धनबाद को क्रिटिकली पोल्यूटेड क्षेत्र से विमुक्त करने हेतु बैठक की कार्यवाही भारत सरकार को भेजने का निदेश दिया गया।



उपायुक्त,

धनबाद।



Action taken against Action Plan by Municipal Corp.		
S.N	Action Point	Compliance status
0.		holders
1	Maintenance	Improvement of the conditions of roads Work initiated
		Stoppage of open burning of coal/municipal solid wastes in un-organised sector Tender for centralised MSW has been finalised.
		Compliance of DG set norms by its occpiers Old generator is being replaced by Exaustic generator.
2	Maintenance of clean water environment	Installation of STPs for treatment of sewage of urban areas and resumption of their operation Tender has been finalised.
		Organisation of treated sewage for use for agriculture purposes and resumption of their operation Tender has been finalised.
		Rejuvenation of water ponds in city area with implementation of measures to abate any intrusion of domestic sewage or solid waste Action initiated.
		Strict enforcement of Rain water harvesting system with household/commercial/institution bodies by local bodies. Action initiated.
		Use of defunct shallow tube wells for ground water recharge
3	Municipal solid wastes disposal	Selection of sites for disposal and treatment plant for its leachate and composing bio-degradable wastes Tender has been finalised.

Point	Action plans for stake holders	Compliance status
	Development of sites for disposal of inorganic garbage and treatment plant for its leachate and composing bio-degradable wastes and resumption of their operation	Tender has been finalised.
	Resumption of utilization of digested garbage or bio-degradable wastes as an organic manure.	Tender has been finalised.
	Collection of plastic wastes for utilization in cement kilns, in blast furnace and road making.	Tender has been finalised.
5	<p>Action for maintenance and continuity of the condition of good and aesthetic environment and compliance of legal provisions.</p> <p>(a) Monitoring of ambient air -reporting every month, noise level-reporting every month, effluent-reporting every month, ground water-reporting every month, surface water -reporting every month, garbage disposal -reporting every quarter, and tree plantation- reporting every year.</p> <p>(c) Every six month broadcasting through TV an radio</p>	<p>Five NAAQM station is functional. Five NWMP stations is functional on Damodar & Barakar river. Road sides plantation is done and continue.</p> <p>Not assured</p>

1038 44

Action taken against Action Plan by Stone Crushers

S.N	Action Point	Action plans for stake holders	Compliance status
0.			
1	The operation of a stone crusher produces fugitive dust due to uncovered operation of crusher and screen loading and unloading of materials.	(a) The covering of loaded transported vehicle will be compulsory.	Steps have been initiated for covered transportation of loaded vehicle.
		(b) All haul roads will be made pucca, by. New haul roads will be taken in use after making in pucca from	The road in side crushers are paved.
		(c) The space of processing of coal or coke will be kept covered.	Not applicable
		(d) A pucca wind breaking wall of 10 ft height will be constructed all around the stone crusher unit.	34 units constructed. Other unit has initiated action.
2	Surface run off, and quench water find way to down stream.	The rain water of the premises shall be harvested.	Action initiated
3	Due to discharge of emission and wastewater, the bio diversity of plant species, terrestrial animals and aquatic organism have adversely been affected.	The plantation of saplings for creation of tree and forest cover of local species.	Action initiated
4	Action for maintenance and continuity of the condition of good and aesthetic environment and compliance of legal provisions.	(a) Monitoring of ambient air-reporting every year and tree plantation- reporting every year.	AAQR not monitored. Plantation reported.
		(c) Every six month broadcasting through TV an radio	Not feasible

1037 45

Action taken against Action Plan by Refractories.

S.N	Action Point	Action plans for stake holders	Compliance status
0.			
1	The ambient air of the premises of TPPs remains dusty due to pliance of uncovered trucks and those too on kutchha haul roads and on ash dumps and due to uncovered processing of ash. The chimneys of boilers too emit dust.	(a) The covering of loaded transported vehicle will be compulsory.	Done & being complied
		(b) All haul roads will be made pucca, by. New haul roads will be taken in use after making in pucca from	Work started
		(c) The space of processing of coal or coke will be kept covered.	N.A.
		(d) All plants will be modified to ensure emission of particulate matter to below 150 micro gm per cubic meter.	Present standard is 350 micro gm per cubic meter. Assured to comply.
2	Surface run off, and quench water find way to down stream.	(a) The rain water of the premises shall be harvested.	Mostly done
		(b) The other wastewater shall be in close circuit.	No other waste water generated
3	Ash is the waste of this plant.	All ash will be disposed of, by utilization or sale, by and and continued later as well.	Used in land filling inside the campus
4	Due to discharge of emission and wastewater, the bio diversity of plant species, terrestrial animals and aquatic organism have adversely been affected.	The plantation of saplings for creation of tree and forest cover of local species.	Done & complied with
5	Action for maintenance and continuity of the condition of good and aesthetic environment and compliance of legal provisions.	(a) Monitoring of ambient air-reporting every quarter, emission - reporting every quarter, effluent-reporting every quarter downstream surface water - reporting every year, Ground water - reporting every year, disposal of hazardous wastes-reporting every six months, and tree plantation- reporting every	AAQR & SMR done
		(b) Introduction of GIS/GPS for continuous recording.	Informed not possible
		(c) Every month broadcasting through TV an radio	Informed not possible

Action taken against Action Plan by Bricks.			
S.N	Action Point	Action plans for stake holders	Compliance status
1	The operation of a clay brick kiln produces fugitive dust from its cover and loading and unloading of materials in addition of flue gas.	(a) The kiln of CBRI approved design only will be established.	92 units established with CBRI design.
		(b) The covering of loaded transport vehicles will be compulsory, from	Steps have been initiated for covered transportation of loaded vehicle.
		(c) All haul roads will be made pucca New haul roads will be taken in use after making in pucca, from	The road in side crushers are paved.
		(d) The top layer of kiln will be kept covered.	Complied with
2	Ash is not used in due proportion	Ash will used due proportion in brick making.	Not complied
3	Surface run off, and quench water find way to down stream.	The rain water of the premises shall be harvested.	In few units collected in ditches.
4	Due to discharge of fugitive dust the bio diversity have adversely been affected.	The plantation of saplings for creation of tree and forest cover of local species.	Action initiated.
5	Action for maintenance and continuity of the condition of good and aesthetic environment and compliance of legal provisions.	(a) Monitoring of ambient air quality- reporting every year and tree plantation- reporting every year.	Not monitored.
		(b) Introduction of GIS/GPS for continuous recording : Assurance.	Informed not possible
		(c) Every six month broadcasting through TV an radio : Assurance	Informed not possible

Action taken against Action Plan by Collieries						
S.N	Action Point	Action plans for stake holders	BCCL	ECL	TISCO	IISCO
1	The ambient air of the collieries remains dusty due to pliance of uncovered trucks and those too on kutchha haul roads and on OB dumps and due to drilling & blasting and uncontrolled emission of their boilers.	(a) The covering of loaded transported vehicle will be compulsory	It is being complied	It is being complied	It is being complied	It is being complied
		(b) Coal transport roads and long time transport road shall be made pucca by. New haul roads will be taken in use after making in pucca.	6.5 km length is under process	Transportation of coal through pucca road.	Transportation of coal through pucca road.	Transportation of coal through pucca road.
		(c) OB dumps will be enclosed by pucca boundary wall to prevent entry through them.	560 mtrs garland drain completed. 1500 mtr under	Not applicable in U/G mines. In OCP initiation	N.A. 5 U/G mines operative. 01 OCP closed.	OB live. N.A.
		(d) All drillings shall be done with dust containment and suppression systems, from the fixed type sprinklers will be installed in all dust prone areas. Including all coal stock & sidings.	6.6 km fixed sprinklers in process. 74 mobile sprinklers operating.	Wet drilling in OCP. Mobile sprinkler operating.	N.A. 5 U/G mines operative. 01 OCP closed.	Wet drilling in OCP. Mobile sprinkler operating.
		(e) The prudent operational practice will be adopted to control dust.	Being adopted.	Being adopted.	Being adopted.	Being adopted.
2	The receiving water bodies get polluted from surface run off of the collieries and from their discharges.	(a) The water bodies shall be created in which and mine water/waste water shall be pumped to them after treatment.	47 MGD for irrigation/community use in process.	No abandoned OCP	Mine water used spraying, domestic supply after treatment and stowing	Mine water is used for storing, dust separation and supply to washery.
		(b) Th direction of surface run-off of the premises of collieries shall be diverted to created water bodies.	Under study.	N.A.	N.A.	Run-off used in fire fighting.



Action Point	Action plans for stake holders	BCCL	ECL	TISCO	IISCO	
	(c) The waste water shall be passed through oil separator-cum-filtration system, by and then discharged to newly created water bodies.	In process.	N.A.	N..A.	N.A.	
	(d) Township-wise STP shall be installed.	Job sanction to CMPDI	Process initiated.	Process initiated.	Process initiated.	
3	The mine overburden is the main problem in open cast mines. The Obs of collieries are dumped either on riverbed or on their banks at least at 14 places in river Damodar or its tributaries. Besides, the hazardous solid wastes are also generated in the workshops. They are recyleable and incinerable in ovens.	(a) All over burden dumps shall be removed from river bed or its proximity.	Eco restoration is taken up.	Done and complied with	Done and complied with	N.A.
	(b) The removed Obs shall, as far as possible, be utilized for low land filling in place of live soil or for making roads.	OB being used in bag filling for haul road making.	Live OB	N.A.	OB used in back filling.	
	(c) Tree plantation on the dumps of left out removed Obs (which could not be utilized for low land filling or for road making).	150.04 ha of OB dump is under plantation.	Done and complied with	10000 sapling planted.	Done and complied with.	
	(d) All hazardous wastes shall be disposed off to its re-processor or co-processor	Being complied.	Being complied.	Being complied	Not applicable	
4	Due to deep mining of coal and the pumping out of water of the mines, many of the ground water aquifers are disturbed and ground water table has depleted. Because of which river Damodar and its tributaries of this area are not charged from the ground during rainy seasons. Due to which the flow of river has become to be minimum. Their flows are day by day decreasing.	(a) All abandoned/ inoperative mines will be earmarked.	5 closed /abandoned mines. OCP converted into lake. 4 UG mines used as water acumulation.	No abandoned OCP	No abandoned OCP	Not applicable
	(b) All outflow points of abandoned / inoperative mines will be suitable blocked.	Complied	Not applicable	Not applicable	Not applicable	
	(c) The orientation of flow of surface run-off of mines to abandoned / inoperative mines shall be completed.	Under study.	Not applicable	Not applicable	Oriented to abandoned quarry.	

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Action Point	Action plans for stake holders	BCCL	ECL	TISCO	IISCO	
	(d) The settling of pipe lines to abandoned / inoperative mines for pumping out mine water.	Being complied at two places.	Not applicable	Not applicable	Not applicable	
5	Due to operation of collieries, the bio-diversity of plant species, terrestrial animals and aquatic organism have adversely been affected.	(a) The plantation of saplings for creation of tree and forest cover of local species.	150.4 ha is under plantation.	Done and complied with.	Done and complied with.	Done and complied with.
		(b) The conversion of abandoned / inoperative mines into water bodies.	Under study.	Not applicable	Not applicable	Not applicable
		(c) The charging of seeds of local aquatic organisms.	Pisciculture (fish) is done at one abandoned mine.	Not applicable	Not applicable	Not applicable
6	There is an underground fire in the areas of 41 collieries of BCCL. It was with the collieries of Tata Steel, Jharia Division also. They, however, quenching by stowing underground mines, developing water bodies etc.	(a) Alienation of underground affected mines.	67 mines fire site alienated.	Not applicable	Not applicable	Not applicable
		(b) Stowing of all unstowed underground mines.	Being complied.	Being complied.	Being complied.	Being complied.
		(c) Development of water bodies over them.	Not applicable	Not applicable	Not applicable	Not applicable
		(d) Final quenching of fire by charging nitrogen etc.	It is being done.	No fire.	No fire.	No fire.
7	Action for maintenance and continuity of the condition of good and aesthetic environment and compliance of legal provisions.	(a) Monitoring of ambient air reporting every month, effluent reporting every month, surface water reporting every month, ground water reporting every month, disposal of Obs reporting every quarter, hazardous wastes reporting every six months, fire extinguishing reporting every month and tree reporting every year	Monitoring done by own lab.	Monitoring done	Monitoring done by own lab.	Done and complied with.

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Action Point	Action plans for stake holders	BCCL	ECL	TISCO	IISCO
	b) Introduction of GIS/GPS for continous recording every week	Job given to CMPDI.	Not applicable	Not applicable	Not applicable
	c) Every week broadcasting through TV and radio: Assurance	Workshop done for awareness.	Workshop done for awareness.	Workshop done for awareness.	Workshop done for awareness.

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Action taken against Action Plan by Thermal power plant.			
S.N	Action Point	Action plans for stake holders	TISCO
1	The ambient air of the premises of TPPs remains dusty due to pliance of uncovered trucks and those too on kutchha haul roads and on ash dumps and due to uncovered processing of ash. The chimneys of boilers too emit dust.	(a) The covering of loaded transported vehicle will be compulsory	Done and complied with
		(b) All transport roads and long time transport road shall be made pucca by. New haul roads will be taken in use after making in pucca.	Done and complied with
		(c) All ash dumps will be enclosed by pucca boundary wall to prevent entry through them.	Being done.
		(d) All processing of ash will be done in coverd space.	Complied with
		(e) The chimneys of all boilers will be equipped with ESPs with on line monitoring systems and connected to JSPC Board H.Q.	Intalled ESP and online monitoring displayed in premises. Instruction has been issued for connectivity to the Board Head Office.
2	Surface run off, ash slurry, cooling water blow down, boiler blow down and wash water/effluent later or sooner find way to the river and pollute them	(a) The flow of surface run-off of the premises of TPPs shall be directed to abandoned or in operative mines, which will be converted into water bodies.	Run-off goes to settling tank & recycled.
		(b) The wastewater shall be passed through oil separator-cum-filtration system and then discharged to newly created water bodies.	N.A.
		(c) The other waste water shall be in close circuit.	Done and complied with
		(d) Township-wise STP shall be installed.	Process initiated
3	Ash and hazardous soild wastes are main problems of TPPs. Dry ash has use in cement making, in brick making and as landfill. Besides, the hazardous wastes are also generated. They are recycleable and incinerabkle in ovens.	(a) Dry ash collection system shall be installed and dry ash sale cement mills shall be resumed.	Ash used in land filling and bricks manufacturing.
		(b) All ash shall be disposed of by utilization or sale and it will be continued from.	Done and complied with

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	Action Point	Action plans for stake holders	TISCO
0.		(c) All hazardous wastes shall be disposed of to its reprocessor or coprocessor and its continuity shall be resumed.	Done and complied with
4	Due to discharge of emission and wastewater of TPPs, the bio diversity of plant species, terrestrial animals and aquatic organism have adversely been affected.	(a) The plantation of saplings for creation of tree and forest cover of local species.	Done and complied with
		(b) The conversion of abandoned / inoperative mines into water bodies.	N.A.
		(c) The charging of seeds of local aquatic organisms.	N.A.
5	Action for maintenance and continuity of the condition of good and aesthetic environment and compliance of legal provisions.	(a) Monitoring of online ambient air-reporting every month, online emission - reporting every month, online effluent -reporting every month, downstream surface water -reporting every month. Ground water - reporting every month, disposal of flyash- reporting every quarter, hazardous wastes - reporting every six months and tree plantation- reporting every year.	Done by own laboratory.
		(b) Introduction of GIS/GPS for continuous recording.	Action initiated.

Action taken against Action Plan by Bee-Hive coke units			
S.N	Action Point	Action plans for stake holders	Compliance status
1	The ambient air of the premises of TPPs remains dusty due to pliance of uncovered trucks and those too on kutchha haul roads and on ash dumps and due to uncovered processing of ash. The chimneys of boilers too emit dust.	<p>(a) The covering of loaded transported vehicle will be compulsory. All transport / haul roads will be made pucca</p> <p>(b) New haul roads will be taken in use after making in pucca from</p> <p>(c) The space of processing of coal or coke will be kept covered.</p> <p>(d) All plants will be modified to ensure emission of particulate matter to below 150 micro gm per cubic meter.</p>	<p>Inside road almost completed with soaling by stone bolders and bricks. Covering ensured.</p> <p>Road inside plant is initiated</p> <p>Almost done and complied with.</p> <p>Total units 122. APCD installed in 115 02 unit has not installed. Consent not granted closed unit - 05 The Board has issued instructions to monitor the particulate twice during the consent period.</p>
2	Surface run off, and quench water find way to down stream.	<p>(a) The rain water of the premises shall be harvested.</p> <p>(b) The other wastewater shall be in close circuit.</p>	<p>More than 90% units has completed RWH.</p> <p>Done and complied with.</p>
3	Due to discharge of emission and wastewater, the bio diversity of plant species, terrestrial animals and aquatic organism have adversely been affected.	The plantation of saplings for creation of tree and forest cover of local species.	Done and being complied.

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Action Point	Action plans for stake holders	Compliance status
10. 4 Action for maintenance and continuity of the condition of good and aesthetic environment and compliance of legal provisions.	(a) Monitoring of ambient air-reporting every quarter, effluent - reporting every quarter, downstream surface water -reporting every year Ground water - reporting every every year, disposal of hazardous wastes-reporting every six months, and tree plantation- reporting every year. Assurance	Assured to comply
	(b) Introduction of GIS/GPS for continuous recording.	Inform not possible
	(c) Every month broadcasting through TV an radio : Assurance	General awareness programme are being conducted.

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Action taken against Action Plan by Coal Washeries					
S.No	Action Point	Action plans for stake holders	BCCL	TISCO	IISCO
1	The ambient air of the premises of coal washeries remains dusty due to pliance of uncovered trucks and those too on kutchra haul roads and on reject dumps and due to uncovered processing of coal	(a) The covering of loaded transport vehicle will be complusory.	Being complied	Done and complied with	Done and complied with
		(b) All transport roads will be made pucca.	Job initiated	Done and complied with	Stable haul raod made.
		(c) Rejects dumps will be enclosed by pucca boundary to prevent entry through them.	Initiation started.	Done and complied with	Done and complied with
		(d) All processing (crushing screening etc.) chambers of coal will be covered.	Under completion	Done and complied with	Done and complied with
		(e) Fixed type of water sprinklers will be installed in all dust prone areas.	Fixed sprinklers at transfer point.	Dry Fog System adopted	Fixed sprinkler at all transfer points.
2	The receiving water bodies gets polluted from surface run off of the collieries and from their mine water pumped for mining of coal and from the waste water emanating from workshops.	(a) All coal washeries shall keep waste water in close circuit. If discharged at all inevitable, treated water shall be pumped to created water bodies.	Zero discharge.	Done and complied with	Done and complied with
		(b) The direction surface run- off of the premises of coal washeries shall be diverted to created water bodiies.	Closed circuit.	Directed to settling pond and recycled.	Run off used in fire fighting.
		(c) The workshop waste water shall be passed through oil separator-cum-filtration system and then discharged to newly created water	Not applicable	No work shop	Water is recycled.
		(d) Twonship-wise STP shall be installed.	Action initiated	Action initiated	Under process.
3	The rejects of coal washeries is the main problem. They are dumped. Besides, the hazardous wastes are also generated. They are recyclable and incinerable in ovens.	(a) All rejects of these dumps shall be removed from river bed or its proximity. (Except Sudamdih coal washery and Madhuban coal washery where it is to be completed by 19.05.11)	Being removed.	No reject dumped on river bed or its proximity.	Action initiated.
		(b) The removed rejects shall be disposed of by utilisation or sale.	In process to sale.	Done and complied with	Action initiated.

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No Action Point	Action plans for stake holders	BCCL	TISCO	IISCO	
	(c) All hazardous wastes shall be disposed of to its re-processor or co-processor)	N.A.	Done and complied with	N.A.	
4	Due to discharge of waste water of coal washeries, the bio-diversity of aquatic organisms has adversely been affected.	(a) Creation of water bodies	Effluent is recycled.	Effluent is recycled.	Not applicable
		(b) Orientation of rain water to this water bodies	Through pond It is recycled.	Through pond It is recycled.	Through pond It is recycled.
5	Action for maintenance and continuity of the condition of good and aesthetic environment and compliance of legal provisions.	(a) Monitoring of ambient air reporting every month, effluent reporting every month, downstream surface water reporting every month, ground water reporting every	Monitoring done by own laboratory.	Monitoring done by own laboratory recognised by JSPCB..	Done and complied with
		(b) Introduction of GIS/GPS for continuous recording.	Job given to CMPDI	N.A.	N.A.
		(c) Every week broadcasting through TV and radio	Work & seminar done for awareness.	Work & seminar done for awareness.	Report sent to AGM through Hard copy.