## Status of compliance of conditions stipulated in the EC accorded for production of 2.4 MT of Coal in favour of Basundhara (West) OCP.

Sl.		
No	Conditions	Compliance of the observations
	Specific Condition	
2	Topsoil should be stacked properly with proper slope at earmarked site(s) with adequate measures and should be used for reclamation and rehabilitation of mined out area.  OB dumps should be stacked at earmarked dump site(s) only and should not be kept active for long period. The total height of the dumps should not exceed 50 m in two stages of 20 m each. Overall slope of the dump should not exceed 28° Concurrent back filling should start from the 4th year of operation Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests on yearly basis.	excavation area of 214.30 ha has been completely excavated, hence there is no production of topsoil.  OB Dumps have been stacked at earmarked sites which were started during the period of 2004-05. Back filling has been started in 2006-07 (4th year of mine operation) and a volume of 33.50 Mm <sup>3</sup> OB has been backfilled till 30.09.2023. The external OB dumps have nearly been rehandled and an area of
3	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and	The total runoff generated over the OB Dump & coal stock is collected back & is allowed to settle down for sufficient time
	sediment flows soil, OB and mineral dumps. The water collected should be utilized for watering the mine	for sedimentation of the suspended particles in the mine sump. Water so collected is being reused for dust suppression of mine road, and firefighting of coal stock yards. The drains are being regularly de-silted and maintained. Garland drains with check dams have been constructed all along the mine

boundary so that the runoff is taken care off even in etc. The drains should be regularly monsoons. Garland drains around external OB dump in North desilted and maintained properly. side of mine has been constructed up to a length of 1120 m. 3 nos. of check dams also have been constructed along this garland drain and on the eastern side of the mine lease area, 1480 m long garland drain have been constructed. Regular monitoring & Management of the measures are being taken to achieve zero discharge within the mines. Garland drains with check dams have been constructed all Garland drains (size, gradient & along the mine boundary so that the runoff is taken care off length) and sump capacity should be even in monsoons. Garland drains around external OB dump designed keeping 50% safety margin in North side of mine has been constructed up to a length of over and above the peak sudden 1120 m. 3 nos. of check dams also have been constructed rainfall and maximum discharge in along this garland drain and on the eastern side of the mine the area adjoining the mine site. lease area, 1480 m long garland drain have been constructed. Sump capacity should also provide The total runoff generated over the OB Dump & coal stock is adequate retention period to allow collected back in the mine sump inside the mine which has proper setting of silt material. sufficient capacity for the peak rainfall. This runoff is allowed to settle down for sufficient time for sedimentation of the suspended particles. Water thus collected is being reused for dust suppression on mine road, and firefighting at coal stock yards. The external OB dump is currently being re-handled and will Dimension of the retaining wall at be used for technical reclamation of internal dump. 77.18 the toe of dumps and OB benches Mm<sup>3</sup> of OB from Siarmal OCP and 7.66 Mm<sup>3</sup> of OB from within the mine of check run-off and Basundhara (West) Extension OCP will be backfilled into the siltation should be based on the rain voids of the Basundhara (West) OCP. Once the dump fall date. stabilizes, retaining wall will be constructed. A dedicated Basundhara River Management Plan, duly While constructing an embankment approved by Water Resources department has been adopted on the northern bank of Basundhara for protection of Basundhara River and its rivulets. The work river proper stone pitching towards of constructing embankment on both sides of the river has slope should be undertaken and a toe been mentioned in the Basundhara River Management plan wall should also be erected.

the currently the work is in progress. The works to be

undertaken is attached herewith.

6	A detailed mine decommissioning	Basundhara (West) OCP is working under the directive of the
	plan should be submitted to the	5 <sup>th</sup> addendum to the mining plan and mine closure plan, which
	Ministry of Environment & Forests	is attached herewith for kind reference.
	5 years in advance for approval.	
7	A green belt of adequate width	Around 2,28,635 trees have been planted in an area of 92.42
	should be raised by planting the	ha as on date. The OB dump is being re-handled and will be
	native species around the ML area,	used for technical reclamation of internal dump. The ICFRE
	Coal Handling Plan, roads, OB	Report is attached herewith for location wise plantation
	dump sites etc. consultation with the	details.
	local DFO / Agriculture Department.	
	The density of the trees around be	
	around 2500 plants per ha.	
8	Regular monitoring of ground water	Ground water monitoring is being done regularly by the
	level and quality should be carried	CMPDIL at required interval. The ground water level is being
	out by establishing a network of	measured at 3 dug wells located at Bankibahal village,
	existing wells and constructing new	Sardega village and Tiklipara village and at the required
	piezometers. The monitoring should	frequency. The quality of the water from these wells are also
	be done four times a year in pre	monitored monthly. The ground water level as seen in the
	monsoon (April / May), monsoon	ground water table shows an increasing trend.
	(August), post-monsoon (November)	
	and Ministry of Environment &	
	Forest and Central Ground Water	
	Board quarterly.	
9	Project authorities should undertake	An epidemiology study has been conducted considering the
	sample survey to generate data on	nearby villages and the report is attached herewith as well.
	pre-project community health status	
	within a radius of 1 Km from	
	proposed mine.	
10	The project authorities should meet	The project authorities provide water to the nearby villages on
	water requirement of nearby	a routine basis even though when the wells of the nearby
	village(s) in case the village wells go	villages have not turned dry.
	dry due to de-watering of the mine.	
11	Appropriate mitigative measures	A dedicated Basundhara River Management Plan, duly
	should be taken to prevent pollution	approved by Water Resources department has been adopted
	of Basundhara river in consultation	for protection of Basundhara River and its rivulets. The work

	with the State Pollution Control	of constructing embankment on both sides of the river has
	Board.	been mentioned in the Basundhara River Management plan
		the currently the work is in progress. The works to be
		undertaken is attached herewith. The State Pollution Control
		Board has been made aware of the river management plan.
12	Coal handling plant should be	Coal Handling plant is not in operation.
	provided with adequate number of	
	high efficiency dust extraction	
	system. Loading and unloading areas	
	including all the transfer points	
	should also have efficient dust	
	control arrangements. These should	
	be properly maintained and	
	operated.	
13	Sewage treatment plant should be	Conventional safety tanks/soak pit arrangement is provided
	installed for the colony. ETP should	for the colony. ETP is provided in the Excavation workshop,
	also be provided for workshop and	(Dimensions; 1st settling tank (16.1m*4.6m*2m*2), O>
	CHP wastewater.	(3.6m*2m*2m*2, 2m*2m*2m*2, 1m*1m*1m*2) & the final
		settling tank (16.1m*4.6m*2m*2)). Further, mine effluent is
		stored in the abandoned quarry in Basundhara (East).
14	Digital processing of the entire lease	Digital processing of the entire lease area using remote
	area using remote sensing technique	sensing technique is being done regularly once in 3 years for
	should be done regularly once in 3	monitoring land use pattern and the same is hereby attached
	years for monitoring land use pattern	for ready reference.
	and report submitted to MoEF and	
	its regional office.	
15	Vehicular emissions should be kept	Security check points have been established within the mine
	under control and regularly	as well as at critical junctures to keep a check on the vehicle's
	monitored.	speed and to ensure that the coal carrying vehicles are fully
		covered.
	General conditions	
1	No change in mining technology and	No change in technology and scope of work. The mine is
	scope of working should be made	using Shovel-Dumper technology for excavation of
	without prior approval of the	Overburden whereas for Coal extraction Surface Miner with

	Ministry of Environment, & Forests.	Pay loader	& Tipper comb	pination are employed which
		reduces dust	emissions.	
2	No change in the calendar plan	No change i	n the calendar plan	n including quantum of mineral
	including excavation, quantum of	coal and was	ste being produced	will be made.
	mineral coal and waste should be	The details	of production of co	oal & OB during the till date is
	made.	as follows:		
		Year	Coal (Te)	Over Burden (m³)
		2023-24	660937.18	73312.70
3	Four ambient air quality-monitoring	Air quality	is presently being	g monitored at 05 stations in
	stations should be established in the	consultation	with the State Po	ollution Control Board and the
	core zone as well as in the buffer	location has	been finalized on	the basis of environmental &
	zone for RPM, SPM, SO <sub>2</sub> , NO <sub>X</sub> &	ecological se	ensitivity.	
	CO monitoring Location of the			
	stations should be decided based on			
	the meteorological data,			
	topographical features, and			
	environmentally and ecologically			
	sensitive target in consultation with			
	the State Pollution Control Board.			
4	Data on ambient air quality (RPM,	Data on amb	oient air quality (R	PM, SPM, SO <sub>2</sub> , NO <sub>X</sub> & CO) is
	SPM, SO <sub>2</sub> , NO <sub>X</sub> & CO) should be	being regul	arly submitted to	the Ministry including its
	regularly submitted to the Ministry	Regional off	ice at Bhubaneshv	var and State Pollution Control
	including its Regional office at	Board / Cent	ral Pollution Contr	ol Board once in six months.
	Bhubaneshwar and State Pollution			
	Control Board / Central Pollution			
	Control Board once in six months.			a a
5		Both wet dri	illing & NVE dust	extraction are provided in the
	Drill should be wet operated or with			Controlled blasting is being
	dust extractors and controlled			acavated with the help of eco-
	blasting should be practiced.	friendly surfa		
6				ension, the following measures
	Fugitive dust emissions from all the		ken by the project	
	sources should be controlled	1. sprinkling	g is being done by	02 nos. of 28Kl departmental
	regularly monitored and data	water tan	ker.	
	recorded properly. Water spraying			

	arrangement on haul road, wagon	2. 25 nos. of fixed mist type Sprinklers have been installed in
	loading, dump trucks (loading &	CHP, weigh bridge and at the Coal transportation road
	unloading) should be provided and	near east sump.
	properly maintained.	3. Installation of 80 nos. of mist sprayers on a stretch of 2.2
		km, from Bankibahal check gate to Basundhara check
		gate, has been completed. 02 instant water showering
		systems have been installed near the Basundhara check
		gate.
		4. A wheel washing system has also been installed at the exit
		od the mines.
		5. Additionally, 115 sprinklers have been installed along the
		coal transportation road within the mining lease area.  6. 4 km of coal transportation road have been concreted
		within the mines
7		Adequate measures are being taken to control the noise level
	Adequate measures should be taken	within the prescribed limits. Noise proof & AC Cabins are
	for control of noise levels below d	being provided and maintained in HEMMs. The data
	BA in the work environment.	regarding the noise levels are being properly recorded near the
	Workers engaged in blasting and	working environment. Reports for the last six months are
	drilling operations, operations of	being enclosed herewith along with the max. and min. noise
	HEMM, etc should be provided with	levels.
0	ear plugs muffs.	The mine effluent is being stored at the abandoned quarry in
8	Industrial wastewater (workshop and	Basundhara (East) & mine voids of Basundhara (W) OCP &
	water from the mine) should be	the industrial waste water is being reused for dust suppression
	properly collected, treated so as to	of mine road, and fire-fighting of coal stocks. ETP & OGT
	conform to the standards prescribed	has been constructed and are in working condition. The
	under GSR 422 (E) dated 19 <sup>th</sup> May,	treated water is being reused for washing purpose,
	1993 and 31st December, 1993 or a	(Dimensions; 1st settling tank (16.1m*4.6m*2.n*2m), O>
	amended from time to time. Oil and	(3.6m*2m*2m*2m, 2m*2m*2m*2m, 1m*1m*1m*2m) & the
	grease trap should be installed	final settling tank (16.1m*4.6m*2m*2m)).
	before discharge of workshop	
0	effluents.	
9	Acid mine water, if any, has to be	There has been no instance of acid mine water since inception.
	treated and disposed of after	t.

10	conforming to the standard prescribed by the competent authority.  Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Boars.	(NABL Accr		levels is being don is controlled by the	•	
11	Personnel working in dust areas should wear protective respirator devices and they should also be provided with adequate training and information on safety and health aspects.  Occupational health surveillance program of the workers should undertake periodically to observe any contractions due to exposure coal dust and take corrective measures, if needed.	pairs of mini 52 safety go themselves fr The workers awareness. The Medical Exam Regular Perior	ng shoes, 83 deggles and 32 om occupational are trained at heir health is being and mination which odic Medical Exbeing communist years are as f	VTC regarding seing monitored through is held at every 5 scamination is being nicated to, DGMS	rescent jackershes to protest to protest afety & head bugh Periodic years interved and	ets, tect alth ical val. the
12	A separate environmental management cell with suitable qualification personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Environment as well as a (E&F) (E-5) an Assistant Manager, Manager	management cerea and head devel is heading Manager (E&lahalaxmi area company's envh., P&P)	ell has been establicated has been establicated and the Area Environ and to the G.M. ironment dept. And on measures are	ished in Project Staff Officement Cell was to the General (Envt.) who and reporting	vith eral o is
	The funds earmarked for environmental protection measures should kept in separate account and should not be diverted for other	year-wise exp	penditure in Fo	t diverted for other orm V that is being indicating the		

	numaca Van wise avanditus la	environmental management.
	purpose. Year wise expenditure be	environmental management.
	reported to the Ministry and its	
	Regional Office located at	
	Bhubaneshwar.	
14	The Regional Office of this Ministry located at Bhubaneshwar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnish the requisite data / information / monitoring reports.	Full cooperation is extended to the officer(s) of the Regional Office and required data submitted. The condition is being complied with.
15	1	The condition has been complied with.
	A copy of clearance letter whom and suggestion / representation has been received while processing the proposal.	
16		Action has been taken to comply with.
	State Pollution Control Board should	
	display a copy of the clearance letter	
,	at the Regional office, District	
	Industry Centre and Collector's	
	Office Tahsildar Office for 30 days.	EC - Histian Istails of Dogundham (W) OCP are as follows:
17	The project authorities should	EC publication details of Basundhara (W) OCP are as follows:  1 Dainik Jagran, 04.03.2013
	advertise at least in two local	
	newspaper widely circulated around	Jamshedpur  2 The Samaja, 02.03.2013
	the project, one of which shall be in	
	vernacular language of the locality	
	concerned within seven days of	3 The New Indian 02.03.2013
	issue of the clearance letter	Express,
	information that the project has been	Bhubaneswar
	accord environmental clearance and	
	copy of the clearance letter is	
	available with the State Pollution	
	Control Board and may also seen at	

web site of	the
same should be forwarded	to the
Regional Office of this	Ministry
located at Bhubaneshwar.	

Project Officer,

Basundhara (West) OCP,

Mahalaxmi Area, MCL. Project Officer, Basundhara (W) OCP परियोजना अधिकारी, बसुंधरा (प) ओसीपी