Status of compliance of the terms and conditions given in the Environmental clearance letter No. J-11015/318/2009-IA. II (M) dt. 07.05.2013 issued by MOEF , Govt. of India, New Delhi for expansion of production capacity of Tetariakhar OCP from 0.5 MTPA to 2.0 MTPA with a peak capacity of 2.50

Period - Apr-13 to Sep-13

SL.NO	Condition	Status of compliance
i	No mining operations shall be	
	undertaken in the forest land until forest	155.58 Ha containing no
	land forestry clearance has been	forest land.
	obtained under the provisions of FC Act-	
	1980.	
ii	Peak production from mine shall not	complied
	exceed 2.5 MTPA without prior	
	environmental clearance.	
iii	Mining shall be carried out as per	, •
	statute at a safe distance from the	-
	bhuthia Nala flowing adjacent to the	Report. Distance from nalla
	lease boundary	to working area is 50mt
iv	The bond/ embankment constructed	RL is more than 3 meters
	alongside bhuthia Nala nala shall be it	
	least 3 m higher that highest flood level,	_
	based on past data so as to guard against	·
	mine inundation. The slope of the	wall
	embankment shall at least 21 towards	
	the ML and the embankment stabilized	
	with plantation.	
V	No washery shall be established within	Complied
	the ML area without prior	
	environmental clearance from the	
	ministry.	

Topsoil, if any, should be vi stacked Topsoil is being used properly with proper slop exclusively for reclamation at earmarked site and should not be kept and development of green active and shall be used belt. reclamation and development of green belt. No additional OB shall be dumped on OB is dumped in non coal vii the existing OB dump. The new OB bearing area outside the shall be concurrently generated quarry. backfilled in the decoaled area. The accumulated OB has been already stacked at earmarked one external deposit(s) within ML of a maximum height of 90 m and consisting of 3 benches of 30 m each. The ultimate slope of the dump shall not exceed 28°. Monitoring and management reclaimed dumpsite existing continue until the vegetation becomes . compliance status self-sustaining should be submitted to the Ministry of Environment and Forests and Office located Regional at Bhubaneshwar on an yearly basis. Catch drains and siltation ponds of Maintained viii appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized watering the mine area, roads, green belt development, etc.. The drain should be regularly desilted and maintained properly. Garland drains (gradient and length) and sump capacity 50% should be designed keeping and above the safety margin over

	peak sudden rainfall and maximum	
	discharge in the area adjoining the	
	mine site. Sump capacity should also	
	provided adequate retention period to	
	allow proper setting of silt material.	
ix	Dimension of the retaining wall at	It is under process.
	the toe of the dumps and OB	
	benches within the mine to check	
	run-off and siltation should be based on	
	the rainfall data.	
x	High efficiency bag filters / water	
	sprinkling system should be provided to	movable water sprinkling
	check fugitive emissions from the	
	workshop, conveyor system, haulage	_
	roads, transfer points etc.	from various part of mine as
		per details given below;
		(i) Mobile water sprinklers
		(a) 12 KL water tanker: 02
	·	nos.
xi	Vehicular emissions should be kept	Vehicles are regularly
	_	being maintained to
	,	control the emissions. Coal
	transporting the mineral should be	
	covered with tarpaulins and optimally	
	,	haul road is being
	transportation to railway head shall be	_
	metal topped.	minimize generation of
		dust during transportation.
xii	Railway siding under construction with	_
	Raid Loading System to replace	
	transportation of coal by road , shall	_
	be constructed in a time bound	trucks
	manner and have adequate	
	arrangements for dust suppression.	I .

xiii	Drills should be wet operated.	All drills are being wet operated.
xiv	Controlled blasting for OC operations should be practiced daytime with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.	Controlled blasting techniques is being adopted. Blasting is done only in day
xv	Area brought under afforestation shall not be less than 976 Ha and shall include reclaimed external OB dump, backfilled area , along ML boundary, along roads and green belt (426 ha) within the lease area by planting native species in consultation with the local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per ha.	plantation as excavation area
xvi	A progressive closure plan shall be implemented by reclamation of quarry area of 540 ha of which shall be backfilled, stabilized and afforested by planting native plant species in consultation with the DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. The balance de-coaled void of 15 Ha being converted in to a water body shall be gently sloped and the upper benches shall be established with plantation	approved by CCL Board in
xvii	The company shall obtain prior approval of CGWA/CGWB Regional Office for use of ground water if required, for mining operations.	Agreed.

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	D1	C1 - 11 1 1' - 3
xviii	Regular monitoring of groundwater level	Shall be complied.
	and quality should be carried out by	
	establishing a network of existing wells	
	and construction of new peizometers.	
	The monitoring of quantity should be	
	done four times a year in pre-monsoon (·
}	May, monsoon (August), post	
	monsoon (November) and winter (
	January) seasons and for quality in	
	May. Data thus collected should be	·
	submitted to the Ministry of	
	Environment & Forests and to the	
	Central Pollution Control Board	
	quarterly within one month of	·
	monitoring.	
xix	The company shall put up artificial	48 nos hand pumps are to be
	groundwater recharge measures for	drilled in different places of
	augmentation of groundwater	TTK OCP.; tender has been
	resource. The Project authorities	i
	should meet water requirement of	be constructed have been
	nearly village(s) in case the village	
	wells go dry due to dewatering of	
	mine.	about Rs 3203725.35
xx	Waste water from coal washery shall be	NA
122	treated to prescribed standards and	
	recycled for mining operations to the	
	maximum extent possible.	
xxi	ETP should also be provided for	Will be done
עעז	treating workshop effluents and	Will be dolle.
	excess mine water to meet prescribed	
	_	,
	standards and recycled for mining	·
	operations to the maximum extent	
	possible.	

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xxii	An STP shall be provided in the	NA
	township for treating domestic waste	•
	water to meet the prescribed standards	
	and recycled for mining operations to	
	the maximum extent possible.	
xxiii	For monitoring land use pattern and	The Remote Sensing is being
	for post mining land use, a time series of	carried out by CMPDI and
·	land use maps, based on satellite imagery	the report shall be submitted
	(on scale of 1:5000) of the core	to MOEF Bhubaneswar.
	zone and buffer zone, from the start	·
	of the Project until end of mine life	
	shall be prepared once in 3 years (
	for any one particular season which	
,	is consistent in the time series) and	
	the report submitted MOEF and its	
	Regional Office at Bhubaneswar	
xxiv	A Final Mine Closure Plan along	1
	with details of Corpus Fund should	to mine closure.
	be submitted to the Ministry of	
	Environment & Forests for approval 5	
	years in advance of final mine closure	
	for approval.	
xxv	Consent to Operate shall be obtain	Yes , fulfilled.
	before starting mining operations after	
	fulfillment of conditions imposed in	
<u></u>	NOC	
<u>B</u>	General Condition	P01 . 1
i	No change in mining technology and	_
	scope of working should be made	mining technology.
	without prior approval of the Ministry of	·
	Environment and Forests.	Design of and on dOD is
ii	No change in the calendar plan	
	1	as per calendar plan.
	mineral coal and waste should be made.	

iii	For ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO2 and NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive in consultation with the State Pollution Control Board.	station has been established at PO office, Pinderkom village and workshop for monitoring SPM, RPM, SO2,NOX. The results of monitoring report are
iv	Fugitive dust emission (SPM and RPM) from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul road, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintain	by spraying water at Haul road, transfer point etc. Sprinkling system has been provided tocheck fugitive emissions from various part
V	Data on ambient air quality (SPM, RPM SO2 and NOx) should be regularly submitted to the ministry its Regional Office at Bhubaneshwar and to the State Pollution Control Board and to the Control Pollution Control Board once in six months.	Environment Quality data is regularly submitted to MoEF, Regional Office and SPCB. A copy of same is enclosed.
vi	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM etc. should be provided with ear plugs /muffs.	Measures taken

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vii	Industrial waste water (workshop	
	and waste water from the mine)	_ ^
	should be properly collected, treated	enclosed.
	so as to confirm to the standards	
	prescribed under GSR 422 (E) dated	
	19th May 1993 and 31stDec-93 or as	
	amended from time to time before	
	discharge. Oil and grease trap should	
	be installed before discharge of	
	workshop effluents	
viii	Vehicular emission should shall be kept	Complied
	controlled and regularly monitored.	1
	Vehicles used for transporting the	
	minerals should be covered with	
	tarpaulins.	
ix	Environmental laboratory should be	Pollution monitoring and
IX	· · · · · · · · · · · · · · · · · · ·	_
	established with adequate number	
	and type of pollution monitoring and	·
	analysis equipment in consultation	
··•	with the State Pollution Control Board.	
X	Personnel working in dusty areas	4 -
	should wear protective respiratory	
	devices and they should also be	
-	provided with adequate training and	
	information on safety and health	
	aspects. Operational health	
	surveillance programme of the	
	workers should be undertaken	
	periodically to observe any	
	contractions due to exposure to duct	
	and to take corrective measures, if	
	needed.	
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A separate environmental management cell with suitable qualified personnel established at area le should be set up under the control of a Senior Executive, who will report	
should be set up under the control of a Senior Executive, who will report	v C1.
a Senior Executive, who will report	
directly to the Head of the Company.	
xii The funds earmarked for Complied.	
environmental protection measures	
should kept in separate account and	
should not be diverted for other	,
purpose. Year-wise expenditure should	
be reported to this Ministry and its	
Regional Office at Bhubaneshwar.	
xiii The Regional Office of this Ministry Agreed.	
located at Bhubaneshwar shall monitor	
compliance of the stipulated	
conditions. The Project authorities	
shall extend full cooperation to the	
office(s) of the Regional Office by	
furnishing the requisite data/	
information/monitoring reports.	
xiv A copy will be marked to concerned Complied	
Panchayat / Local NGO, if any, from	
whom any suggestion / representation	
has been received while processing the	
proposal	
xv State Pollution Control Board should To be done by JSPCI	3
display a copy of the clearance letter at	
the Regional Office, District Industry	
Centre and Collector's Office/ Tehsildar's	
Office for 30 days	
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Project xvi The authorities should advertise at least in two local newspapers widely circulated around the Project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the Project has been accorded environmental clearance and a copy of the clearance letter is available with State Pollution Control Board the and may also be seen at the website of the ministry of Environment Forests at http://envfor.nic.in.

The information about environment clearance has been published in Hindustan, Prabhat Khabar, Dainik Jagran, CCL,Ranchi Express in Hindi.

Project Officer
Tetariakhar OCP