

# HIRA

## GODAWARI POWER & ISPAT

GPIL/EMS/2014-15/668

Date: 29.11.2014

To,

The Director (S)

Ministry of Environment & Forest,

Kendriya Paryavaran Bhawan

Link Road No. 3, Bhopal – 4621016

**Subject:** Compliance status of the conditions stipulated in environmental clearance.

**Reference:** Environmental clearance vide letter no. J-11015/208/2006-IA.II (M) Dated 31.01.2007, For our Boria Tibbu Iron Ore Mines of Godawari Power & Ispat Limited.

Dear Sir,

With reference to above letter, we are submitting herewith the status of progress and the compliance of the conditions stipulated in environmental clearance granted to **Godawari Power and Ispat Limited for Boria Tibbu Iron Ore Mines** for the period 1<sup>st</sup> April. 2014 to 30<sup>th</sup> Sep. 2014.

This is for your kind information and records please.

Hope you will find it in order.

Thanking you.

Yours faithfully,

**FOR, GODAWARI POWER & ISPAT LTD.**

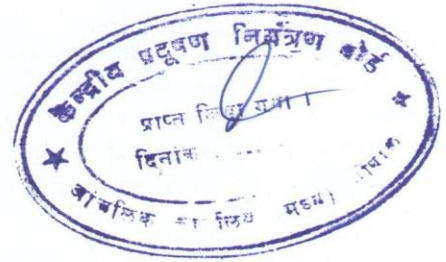


(S.K. MISHRA)

Dy. Chief Executive Officer

Copy to: Zonal Officer CPCB, Bhopal (M.P.)

Copy to: Member Secretary, CECB, Raipur (C.G.)



*Handwritten signature and date 4/12/14*



कार्यालय / OFFICE  
पर्यावरण एवं वन मंत्रालय (केन्द्रीय)  
Ministry of Environment & Forests (C)  
क्षेत्रीय कार्यालय (पश्चिम क्षेत्र)  
Regional Office (Western Region)  
भोपाल (म.प्र.)-462016

**Godawari Power & Ispat Limited**

An ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 certified company

**Registered Office and Works:** Plot No. 428/2, Phase I, Industrial Area, Siltara, Raipur - 493111, Chhattisgarh, India  
P: +91 771 4082333, F: +91 771 4082334

**Corporate address:** Hira Arcade, Near New Bus Stand, Pandri, Raipur - 492001, Chhattisgarh, India

CIN No.-

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**COMPLIANCE STATUS OF CONDITIONS IMPOSED BY MINISTRY OF ENVIRONMENT AND  
FORESTS Vide their Letter No. J-11015/208/2006-IA.II (M) Dated 31.01.2007**

**Period: From 1<sup>st</sup> April. 2014 to 30<sup>th</sup> September 2014.**

**A. Specific Conditions:**

<b>Sl.No.</b>	<b>Conditions</b>	<b>Compliance status ( As on 30.09.2014)</b>
(I)	Top soil shall be stacked properly with proper slope with adequate safeguards and shall be backfilled for reclamation and rehabilitation of mined out area.	Generated top soil will be utilized for plantation purpose, and shall be backfilled for reclamation and rehabilitation of mined out area.
(ii)	Over burden shall be stacked at earmarked dump site(s) only shall not be kept active for long period. The maximum height of the dump shall not exceed 20 mt. each stage shall preferably be of 10 m and over all slope of the dump shall not exceed 28°. The mine pit area shall be reclaimed by back filling the OB in a phased manner. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly bases.	Mining operation was started since may 2014.since then generated over burden is being stacked at designated site only and will be utilized for plantation.
(iii)	Garland drains shall be constructed to arrest silt and sediment flows from soil and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desalted particularly after monsoon and maintained properly. Garland drain (Size, gradient and length ) shall be constructed for both mine pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data ) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper setting of silt material. Sedimentation pits shall be constructed at corners of the garland drains and desilted at regular intervals.	Garland drains around OB dumps and mineral dumps will be constructed with siltation ponds at intervals to arrest silt and sediments. Whenever required the silts and sediments will be cleaned and maintained regularly.  Garland drains around mine pit will be constructed for maximum discharge of rainfall in the adjoining areas.  Well drainage system has been provided separately for discharge of storm water.
(iv)	Drilling and blasting shall be by using dust extractors / wet drilling.	Wet drilling is being followed with dust extractors
(v)	Plantation shall be raised in an area of 75.10 ha including green belt of adequate width by planting the native species around the ML area, roads, OB	We have marked the area for plantation, And planed for 5000 saplings in current year.

	dump sites etc. in consultation with the local DFO /Agriculture Department. The density of the trees shall be around 2000 plants per ha.	
(vi)	The project authority shall implement suitable conservation measures to augment ground water resources In the area in consultation with the Regional Director, Central Ground water Board.	A sump will be constructed to recharge ground water.
(vii)	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new pezometers during the mining operation. The monitoring shall be carried out four times In a year- pre-monsoon (April-May) monsoon (August) post-monsoon (November) an winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board.	Monitoring of ground level & quality is being carried out in all four seasons by establishing a network of wells in Buffer Zone & Core Zone. The water quality analysis is enclosed in <b>Annexure 1</b> , and the monitoring data of post-monsoon and winter season water level is enclosed in <b>Annexure 2</b> .
(viii)	Prior permission from the competent authority shall be obtained for drawl of ground water, if any.	Same shall be complied
(ix)	Vehicular emission shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	Pollution testing certificate of all machinery is being verified regularly to check vehicular emission. Further emission level is kept under control by rigorous maintenance of all engines and changing of lubricants as per the recommendation of the manufacturer. All the transporting vehicles are being covered with tarpaulin and over loading is strictly avoided.
(x)	A final Mine closure plan, along with details of corpus fund shall be submitted of the Ministry of Environment & Forests 5 years in advance of final mine closures for approval.	The same will be submitted in due time to MOEF for approval.

## B. General Conditions:

Sl.No.	Conditions	Compliance
i	No change In mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.	Prior approval of the Ministry of Environment & Forests will be obtained for any change In mining technology and scope of working.
ii	No change in the calendar plan including excavation, quantum of mineral iron ore shall be made.	Change in the calendar plan including excavation, quantum of mineral iron ore will not be made.
iii	Conservation measures for protection of flora and fauna in the core & buffer zone shall be drawn up in consultation with the local forests and wildlife department.	As per the advice of Forest Department, we have provided vehicles, watchman and infrastructural facility as measures to protect Flora & Fauna in core & buffer zone.
iv	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for RPM,SPM,SO <sub>2</sub> ,NO <sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency should be undertaken In consultation with the State Pollution Control Board.	Four ambient air quality monitoring stations have been established in the core zone as well as in the buffer zone for RPM,SPM,SO <sub>2</sub> ,NO <sub>x</sub> monitoring. Frequency of the monitoring is as per guideline.
v	Data on ambient air quality (RPM,SPM,SO <sub>2</sub> ,NO <sub>x</sub> ) should be regularly submitted to the Ministry including its Regional office located at Bhopal and the state pollution control Board/Central pollution Control Board once in six month.	Data on Ambient Air Quality with respect to RPM, SPM, SO <sub>2</sub> , and NO <sub>x</sub> for the period April-2014. To Sep. 2014 is enclosed in <b>Annexure 1</b> .
vi	Fugitive dust emission from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.	Control of fugitive dust emissions is being carried out by water spraying on haul roads, loading and unloading points and iron ore handling yard regularly.
vii	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with earplugs/ muffs.	Control measures such as maintenance of all machines including checking of silencers regularly,installing immovable machinery on foundations and closed rooms is being provided. The workers engaged at noisy areas are being providing with ear plugs/muffs.
viii	Industrial waste water (workshop and waste water from the mine) should be properly collected,	No waste water is generated as open cast mining activity is going on much above the

	treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent.	ground level and there is no scope to intersect the ground water table. Oil & grease trap is not required as all mining machinery is being deployed on contractual basis and repair and maintenance of the same carried out by the concerned contractor at outside workshop only.
ix	Personal working in dusty areas shall wear protective respiratory devices and they shall be provided with adequate training and information on safety and health aspects.	In addition to water spraying to suppress dust generation, workers engaged in dusty areas are being provided with nose masks as a precautionary measure.  Training & information on safety, health hazards are being given to all categories of deserved workers.
x	Occupational health surveillance program of the workers shall be undertaken periodically to observe any contraction due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance programme of all categories of workers and employees are being conducted periodically. The detail expenditure of Occupational health surveillance programme and CSR activities is enclosed <b>Please see Annex- 2</b>
xi	A separate environmental management cell with suitable qualified personal shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A separate Environment Management Cell with suitable qualified personnel and well equipped Environment Laboratory is functioning under the control of Senior Executive, who reports directly to the Head of the Organization.
xii	The project authorities shall inform to the regional office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	We would like to clarify that company has made all the investment (e.g. payment of mining lease, registration of lease, and payment of forest compensation and development of mines) from their own sources.
xiii	The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bhopal.	Separate funds provision has been made for implementation of environmental protection measures. As on date, nearly approx Rs. 10 lacks has been utilized for safe guard of environment & green belt development.
xiv	The project authorities shall inform to the regional office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Same shall be complied.
xv	The regional office of this ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the regional office by furnishing the requisite	Same shall be complied.

	data/information/monitoring reports.	
xvi	A copy of clearance letter will be marked to concerned panchayat/local NGO, if any from whom suggestion /representation has been received while processing the proposal.	Complied
xvii	State pollution control board should display a copy of the clearance letter a the regional office district industry center and collector's office/Tehsildar's office for 30 days	Complied
xviii	The project authority should advertised at least in two local news papers widely circulated one of which shell be in the vernacular language of the locality concerned, within seven days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of Ministry of Environment of Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and copy of the same shall be forwarded to the regional office of this ministry located Bhopal.	Complied



## AMBIENT AIR MONITORING REPORT

IRON ORE MINING, BORJA TIBBU

FOR THE MONTH OF OCTOBER-2014

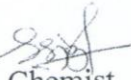
## I. SAMPLING DETAILS :

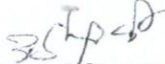
Date of Sampling	25.10.2014
Date of Analysis	26.10.2014
Monitored by	Mr. Ugendra Verma
Analyzed by	Mr. Sukh Sagar Singh

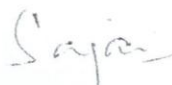
## II. AMBIENT AIR MONITORING RESULTS

II. AMBIENT AIR MONITORING RESULTS

S. NO.	MONITORING STATIONS	PARAMETERS MEASURED CONCENTARATION IN $\mu\text{g}/\text{m}^3$		
		PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>
CORE ZONE				
1	Near QC Lab (South-West)	36.00	BDL	BDL
2	Near Work Face (North)	38.25	BDL	BDL
BUFFER ZONE				
3	Village-Dhulki (East)	20.64	BDL	BDL
4	Village-Rasuli (South-East)	19.10	BDL	BDL
SATANDARDS AS PER CECB/CPCB -PM <sub>10</sub> -100 $\mu\text{g}/\text{m}^3$ ; SO <sub>2</sub> /NO <sub>x</sub> -80 $\mu\text{g}/\text{m}^3$				

  
Chemist

  
Asst. Manager

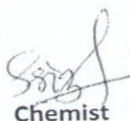
  
Head of the Department  
Environment Management System

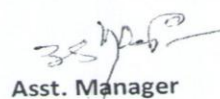
## GROUND WATER ANALYSIS REPORT

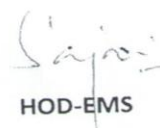
## IRON ORE MINING, BORIA TIBBU

FOR THE MONTH OF OCTOBER -2014

PHYSICAL ANALYSIS				
SN	PARAMETER	DESIRABLE LIMIT	RESULTS	
			BORIA (Borewell)	DHULKI (Hand Pump)
1	Colour	10	Colourless	Colourless
2	Odour	Unobjectionable	Unobjectionable	Unobjectionable
3	Taste	Agreeable	Agreeable	Agreeable
4	Turbidity	5	NIL	2.3
5	Dissolved solids mg/l	500	175	114
CHEMICAL ANALYSIS				
6	PH Value	6.5 - 8.5	7.53	6.91
7	Hardness(T) $\text{CaCO}_3$ mg/l	300	84	32
8	Calcium (Ca) mg/l	75	28.91	9.63
9	Magnesium (Mg) mg/l	30	2.90	1.94
10	Iron (Fe) mg/l	0.3	0.10	0.25
11	Chloride (Cl) mg/l	250	15.65	16.00
12	Free Residual Chlorine	0.2	Nil	Nil
13	Lead (as Pb) mg/l	0.05	BDL	BDL
14	Manganese (as Mn) mg/l	0.1	BDL	BDL
BIOLOGICAL ANALYSIS				
15	E. Coli (Bacteria count)	0/100ml	Nil	

  
 Chemist

  
 Asst. Manager

  
 HOD-EMS





GODAWARI POWER &amp; ISPAT

428/2, Phase-1, Industrial Area, Siltara, Raipur - 493111, Chhattisgarh, India

**WATER TABLE REPORT****WATER TABLE DATA (POST MANSOON)**

SN	Location of Well	MAY-2014	NOV-2014	Variation in Table
1	Boria Tibbu	8.75	7.46	1.29
2	Dulki	7.63	7.75	-0.12
3	Khargaon	7.50	5.89	1.61
4	Boria Moksa	6.20	5.80	0.40



## EXPENDITURE FOR CSR BORJA TIBU MINES FY14-15

S.No	Particulars	April'14	May'14	June'14	July'14	August'14	September'14
<b>EDUCATION</b>							
1					27,320.00	1,11,000.00	1,20,115.00
1.1	APPOINTMENT OF TEACHERS						
1.2	INDEPENDANCE & REPUBLIC DAY					10,960.00	
1.3	OZONE DAY, ENVIRONMENT DAY, EARTH DAY						15,000
1.4	TEACHERS DAY, LITERACY DAY, CHILDRENS DAY						37,600.00
<b>HEALTH</b>							
2			32,600.00				
2.1	HEALTH CENTER (CONSTRUCTION & FURNITURE)		1,81,298.00	1,45,457.00	1,59,996.00	2,36,763.00	2,35,394.00
2.2	OPERATIONAL COST OF HEALTH CENTER						
<b>INFRASTRUCTURE</b>							
3						20,05,767	11,40,480.00
3.1	CONSTRUCTION OF ROADS						
<b>COMMUNITY DEVELOPMENT</b>							
4			35,147.00	5,000.00	5,000.00	5,000.00	5,000.00
4.1	STITCHING & TAILORING CENTER						
4.2	WORKSHOP ON SHG	20,000.00					
<b>ENVIRONMENT CONSERVATION</b>							
5							1,80,000.00
5.1	HORTICULTURE EXPENSES						
	<b>GRAND TOTAL</b>	20,000.00	2,49,045.00	1,50,457.00	1,92,316.00	23,69,490.00	17,33,589.00