



CIN-L27101OR1984PLC001354

Ref. No. : BALB/ENV/MoEFCC/.....6056

Date : 30th November'2016

To,

The Chief Conservator of Forests (Eastern)
Regional Office (EZ), A/3,
Chandrasekharapur,
Bhubaneswar-751023,
Odisha

Sub: Six monthly compliance report of conditions of Environment Clearance with respect to Balasore Alloys Ltd., Balgopalpur, Balasore.

Ref:- Environment Clearance No.- J-11011/245/2008-IA II (I), dated 25.08.2016, extension of validity of EC on dated 03.03.2016.


Sir,

Please find enclosed herewith the six monthly compliance report of the above referred Environment Clearance conditions for the period April'2016 – September'2016 with respect to our Balasore Alloys Ltd., Balgopalpur, Balasore for your kind perusal.

Thanking You.

Yours Truly,

For **Balasore Alloys Limited, Balasore**


G. Janarthanam
Director (Operation)

Encl:- As Above

CC: Chairman, Central Pollution Control Board, Parivesh Bhawan,
CBD-cum-Office Complex, East Arjun Nagar, New Delhi-110032

Chairman, Orissa Pollution Control Board, Parivesh Bhawan,
A/118 Neelkanthnagar, Unit-8, Bhubaneswar-751012, Orissa



M/s Balasore Alloys Ltd

At Balgoplapur, Balasore, Odisha

**Compliance Status to the conditions of
Environment Clearance vide Letter No. J-
11011/245/2008 IA-II (I) Dt.24.08.2008 validity
extended to 24.08.2018 by MoEF & CC**

Period: April 2016 To September 2016



Submitted to:

Regional office, MoEF & CC, Bhubaneswar

Vision, Mission, Values

Vision

To be organization that continuously achieves economic value by optimizing resources through operational excellence, enabled by technology and driven by innovation to meet customer satisfaction to maximize the value of all the stakeholders.

Mission

To be amongst the world's Top Five new generation Ferrochrome companies: in our products, in the manner in which we service our clients, in our work ethics, and in our culture of societal integration.

Values

Zero Harm : Providing a Safe Working Environment for our Staff and Contractors.

Integrity : Avt according to agreed Ethical Standards and take Responsibility of our Actions.

Focusing on Core Business : Concentration on providing key deliverables within our Business.

Caring for People : Manage our people with the same passion and dedication.

Cost Consciousness : Manage our Business in the most Cost-Effective way and continuously Explore New Competitive Practices.

Respect : Treat All Individuals with Dignity and Respect

Specific Conditions & Status

- I. Continuous monitoring facilities for all the stacks along with sufficient air pollution control equipments viz. fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions below 100 mg/Nm³. The Orissa Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.**

Status- Gas Cleaning Plant (GCP) with spark arrester, forced draft cooler, bag filter devices) are in place for the existing five furnaces to control the emission level below 100 mg/Nm³. Monitoring of stack gas emission is going on regular basis engaging third party as well as in-house team and reports are submitted to regulatory authorities.

Continuous monitoring system has been installed in one stack of furnace – I. We are in the process for installation of same in other four stacks of four furnaces by 31 March 2017. In the mean time interlocking facility shall be provided for all five furnaces.

Table-1: Stack Gas Monitoring Report (average)(April'16 to Oct '16)

Month Wise Avg. PM LEVEL(mg/Nm ³) in Stack					
Month	Furnace-I	Furnace-II	Furnace-III	Furnace-IV	Furnace-V
PCB Norms	100 mg/Nm ³				
April'16	58.5	65.5	64.5	60.5	59.0
May'16	60.5	57	66	65	63
June'16	57.5	59.5	64.5	62.5	62.5
July'16	61	57.5	61.5	59	64
August'16	58	58	63.5	62	62.5
September'16	62	63.3	65	64	60.5



Photo-1 : Online stack gas monitoring system attached to GCP stack of Furnace



Photo-2 : Display unit of Online stack gas monitoring system attached to GCP stack of Furnace-1

- II. Fume extraction system with bag filters shall be provided to control the gaseous emission from submerged arc furnaces and shall be discharged into the atmosphere through stacks of adequate height as per CPCB guidelines. The outlet dust emission shall not exceed $100\text{mg}/\text{Nm}^3$. Dust suppression system like water spraying shall be provided at unloading and raw material handling areas to control fugitive dust emissions to meet the OPCB norms. Water spraying shall also be done to prevent the dust emanation due to vehicular movement.**

Status:- For the existing units Fume extraction system with bag filters have been provided. The outlet emission is well within the norms. Water sprinkling on the roads as well as R.M Yard is continuously done to arrest the fugitive emissions. Dry Fog dust suppression arrangements are done at the raw-material feeding & transfer points. Regular water spraying facility has been provided throughout the plant and haul road to suppress the fugitive emission due to vehicular movement. Regular monitoring of Ambient air quality is going on at four different locations inside the plant premises and Two Locations in the Buffer Zone. Report for the period of April-2016 to September 2016 given below.

Table-2: Ambient air quality Monitoring Report (April'16 to September'16)- Core Zone

Month Wise Average AAQM Data																
Month	Weigh Bridge-1				Material Gate				Furnace-3 Metal Breaking Yard				Near MRP Metal Shorting Area			
	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
PCB Norms	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	81 (µg/m ³)
April'16	56.5	24.3	4.6	10.5	58.3	26.3	4.8	10.8	55.3	24.8	4.5	10.5	55.5	22.3	4.4	10.3
May'16	56.8	20.8	5.2	10.1	57.5	23.8	4.9	10.4	56.5	24.3	5.3	10.3	60.0	21.8	4.9	9.9
June'16	54.8	21.0	4.6	10.4	58.8	25.5	5.0	10.5	53.3	23.0	5.0	10.3	59.5	24.3	4.9	10.4
July'16	56.8	21.5	4.8	10.0	56.0	22.5	5.0	10.2	57.0	24.3	5.2	9.7	57.3	24.3	4.9	10.2
August'16	55.0	24.0	4.5	10.3	57.0	26.5	4.8	10.7	53.3	24.0	4.3	10.0	60.0	24.5	4.4	10.0
September'16	55.8	22.3	4.4	10.0	55.3	23.3	4.6	10.5	53.8	20.5	4.5	10.0	54.0	21.5	4.4	9.8

Table-3: Ambient air quality Monitoring Report (April'16 to September'16) – Buffer Zone

Month / Year	Buffer Zone Ambient Air Monitoring Result (µg/m ³) (Monthly Average)							
	Nuaparhi				Mukhura			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
April'15	47.2	26.8	4.4	10.9	51.9	25.1	4.5	10.2
May'15	53.5	27.9	4.5	11.6	54.1	21.5	4.2	10.9
June'15	51.1	23.5	4.1	10.4	49.2	24.2	4.1	10.3
July'16	57.3	26.2	4.4	10.1	44.2	22.3	4.5	10.6
Aug'16	54.2	27.5	4.6	10.3	50.6	21.9	4.1	9.8
Sept'16	55.3	29.4	4.4	9.9	52.4	22.1	4.2	10.4
Norm	100	60	80	80	100	60	80	80



Photo : 3- Water sprinkling on roads through mobile



Photo: 4- Permanent Water sprinkling system

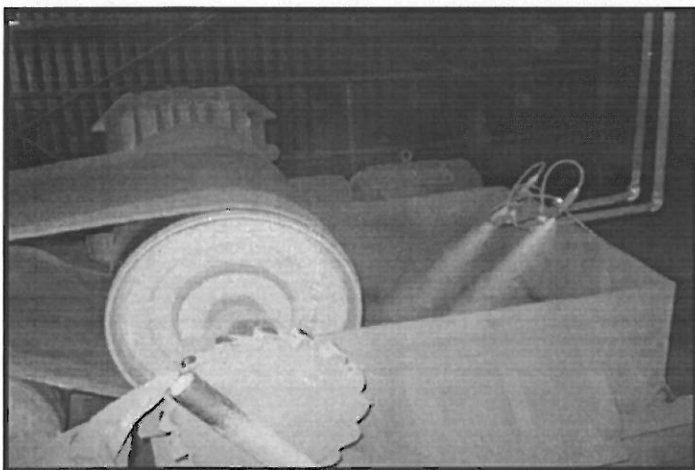


Photo:5- Dry Fog dust suppression system at screen house & transfer point



Photo: 6- Dry Fog Dust suppression system installed at under ground bunker & conveyors

- III. Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.**

Status: - Inside the plant premises mobile water sprinkling, dry fog and covering on conveyer belt have been provided to reduce the secondary fugitive emission. Dust extraction system at tapping floor has been installed in five furnaces to reduce secondary fugitive emission.

- IV. Vehicular pollution due to transportation of raw material and finished product shall be controlled proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.**

Status:- Mobile water sprinkling system is provided at RM handling area, finish product yard and inside the plant premises. All the raw material procured are transported by covering the vehicle with tarpaulin & finished product has been transported after loading in HDPE bags to control fugitive dust emission. The haul road use for transportation inside plant premise completely cemented.

Photos Showing Sprinkling of water by mobile and fixed sprinkler is given as Photo -3 & 4.

Photos showing transportation of raw materials and finished products are given as Photo – 7,8,9 & 10.



Photo: 7- Raw Material Procured in Covered Vehicles



Photo: 8- Finished Products Dispatched in Covered Vehicles

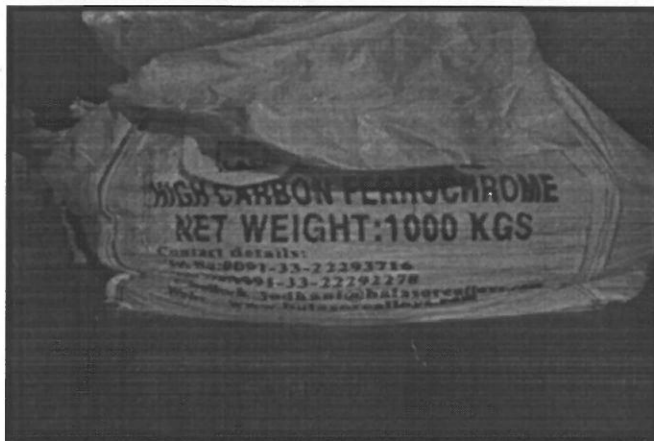


Photo: 9- Photographs of Finished Goods Packed in Bags

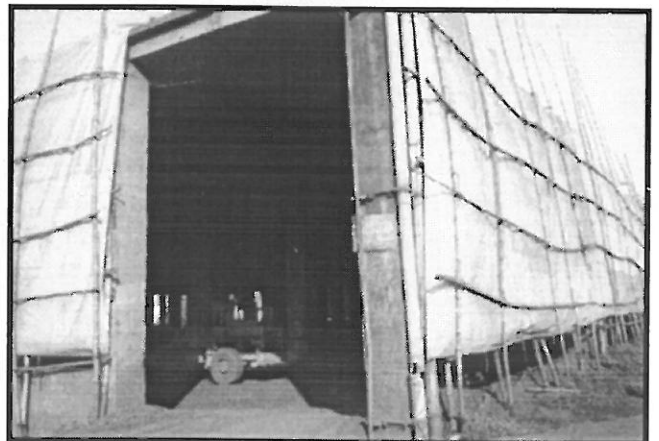


Photo: 10- Raw Material Stored in Covered Shade

- V. **Total ground water shall not exceed 355 m³/day. Cooling under blow down shall be treated and waste water shall be used for dust suppression, greenbelt development & other plant related activities within the plant premises. "Zero" discharge shall be adopted.**

Status: Water being withdrawn through bore wells are being used for both domestic and Industrial purpose. All the process cooling water and cooling tower blow down water are re-used for plantation and dust suppression. Waste water from Jigging plant is being circulated and no water is discharged outside. The waste water generating from canteen & guest house is treated in the STP of 50KL capacity and the treated water is being reused in plantation. Other Domestic waste water is discharged to septic tank followed by Soak Pit. Thus ensuring zero discharge of water from Plant Premises. Photograph of STP



- VI. Prior permission for the drawl of 355 m³/day ground water from the Central State Ground Water Board/ Ground Water Authority (SGWB/CGWA) shall be obtained.**

Status: Permission from CGWA for withdrawal of ground water of 1377M³/Day has been obtained and is valid till 29.09.2016. Renewal application for the NOC has been submitted vide letter No. BAL/CGWB/1302, Dt 08.06.2016 and further BAL/Plant/CGWB/3901, Dt 22.11.2016.

Copy of same attached as **Annexure-1A & 1B.**

- VII. Proper handling, storage, utilization and disposal of all the solid / hazardous wastes shall be submitted to the Ministry's Regional Office at BBSR, OPCB & CPCB.**

Status: Solid waste as Ferro-chrome slag is processed for recovery of entrapped chrome metal through MRP and stored at earmarked area inside plant premises, sold to local area for low land filling and road construction.

Hazardous wastes viz Used Oil and Waste Oil are being generated during operation, which are stored at earmarked place with adequate protection and disposed authorized party. We have obtained authorization for handling, storage and disposal of hazardous waste valid up to 31.03.2019. IND-IV-HW-293/14630. **Copy of same given in Annexure-2.**

The annual return for hazardous waste handling has been submitted to OSPCB in Form-IV. Copy of same attached as **Annexure-3.**

Photos of Hazardous yard storage area and handling are given as **Photo-11 & 12.**

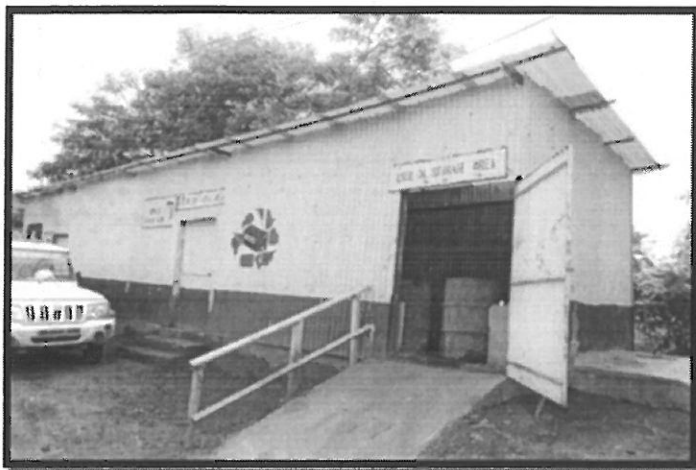


Photo: 11- Used Oil stored at Earmarked Yard



Photo: 12- Flue dust collected covered with tarpaulin and used for briquette making

- VIII. Chromate slag shall be used for road making only after passing through Toxic Chemical Leach ability Potential (TCLP) test. Otherwise, Ferro Chrome shall be recovered from the slag & output waste shall be disposed in secured landfill as per CPCB guidelines.**

Status: Fe-Cr recovered from the Chromate slag through our Metal Recovery Plant and the ultimate waste i.e. slag tailings in form of chips & fines are reused for road making, construction of walls etc after passing through TCLP.

Copy of TCLP test report given in **Annexure-4**.

- IX. Product fines, fume dust shall not be dumped anywhere else but reused in the process. SAF slag shall not be dumped but reused as per the alternate action plan submitted. Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silico- Manganese (Mn-Si). Dust from bag filters shall be collected in silo by pneumatic conveying and reused for briquetting and shall be charged to furnaces clay with the raw material. All the other solid waste shall be spilled out and good housekeeping practices shall be adopted. Used oil shall be sold to recyclers/reprocesses.**

Status: Product fines are sold as finish product. Pure Slag after passing through MRP is kept at earmarked area and sold for low land filling and road construction at local area. Ferro-silicon and Ferro-manganese are not generating. Flue dust is being collected through pneumatic/mechanical conveying system from bag filters and collected in silo which is reused for briquette making as raw material. Good Housekeeping practice is being adopted. Used oil generated is kept in earmarked area and sold to authorized recyclers.

- X. Green belt shall be developed in 33% area within and around the Plant premises as per the CPCB guidelines in consultation with DFO.**

Status: Total 15.68 acre of area (34.7 %) has been covered with plantation inside plant premises at several areas viz. boundary, near colony area, Guest house etc developing in our own captive nursery (capacity of approx.1.0 lakh). The year wise details & photographs of same given below. 4000 nos of sapling are being planted as avenue plantation at nearby villages and Balasore city. Photographs of same given below.

Table-4: Details of plantation

Total Land Possession In Balasore Alloys Limited in Acre	Plantation for the year 2013-2014 in Nos.	Plantation for the year 2014-2015 in Nos.	Plantation for the year 2015-2016 in Nos.	Plantation for the year 2016-2017 in Nos.	Total plantation since 2013	Plant survival in %	Area covered in Acre	% of Greenery
45.2	12289	6598	8254	1402	28543	90%	15.68	34.70%



Photo-13: Showing plantation near Plant boundary



Photo-14: Showing plantation inside Plant Premises boundary

Photo-15: Photos showing plantation inside Plant Premises

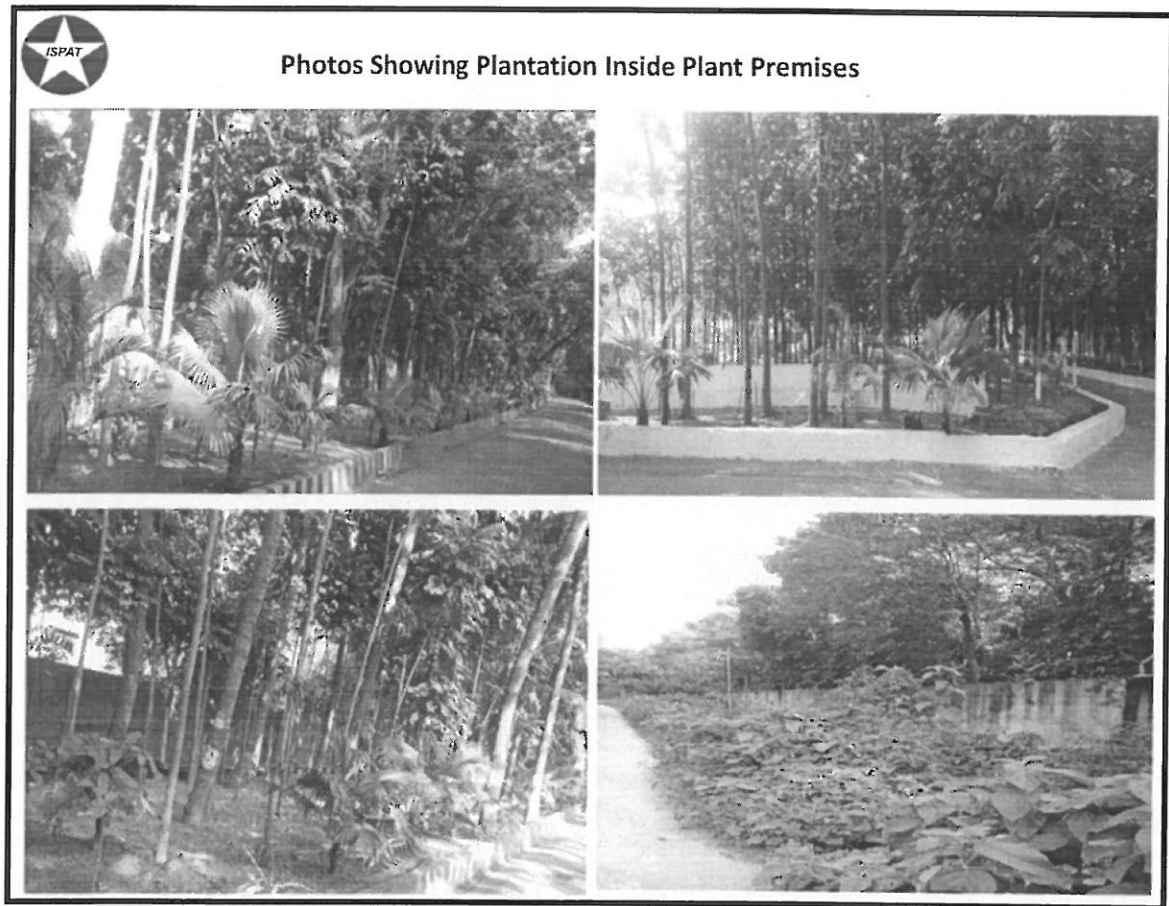
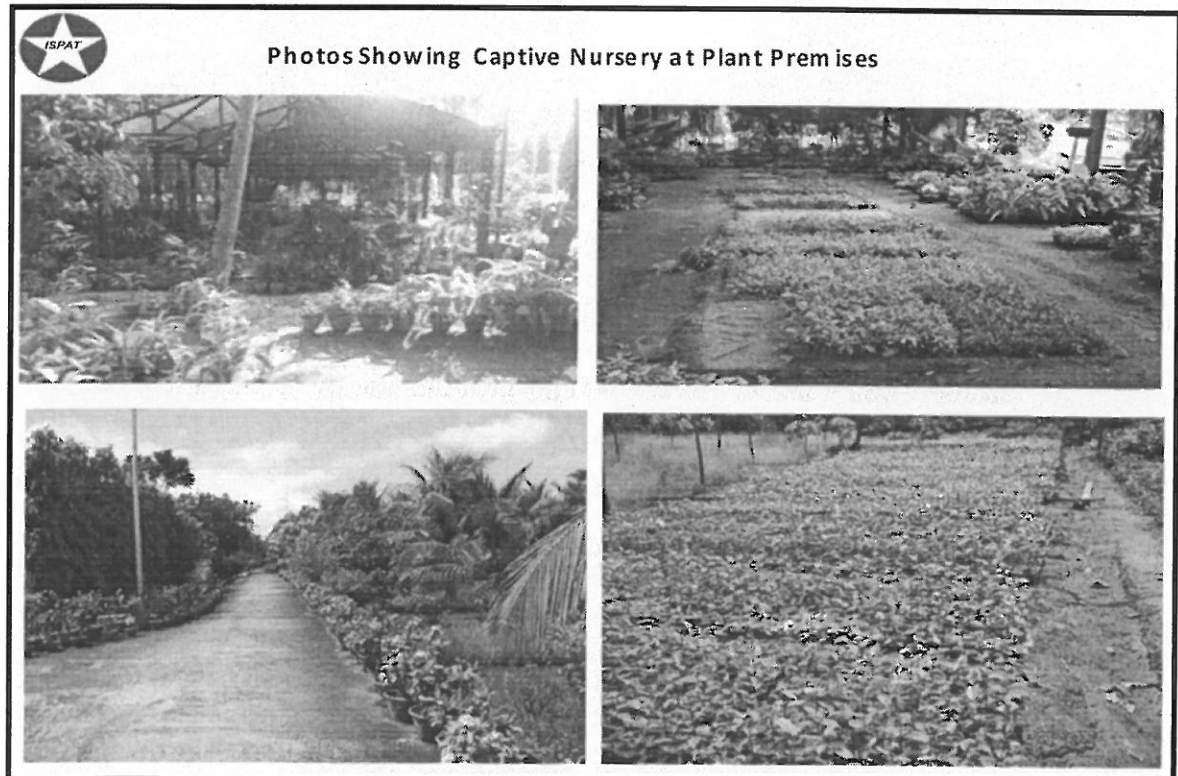


Photo-16: Photos showing captive nursery inside Plant Premises



- XI. All the recommendations made in the charter on corporate responsibility for Environment protection for the Ferro Chrome units shall be strictly implemented.**

Status: We have undertaken activities like Free distribution of 25000 nos of sapling to nearby villagers towards greenery development, Avenue plantation, under guidance of regional office OSPCB, Balasore. Special attention is being given for protection of environment in CSR activities. The activities undertaken during CSR activities are as follows

- **Tribal Development**
- **Women's Empowerment**
- **Environment Conservation & Tourism**
- **Basic Infrastructure**
- **Youth Development**
- **Educational Development**
- **Health Awareness & Promotion**
- **Assistance at the time of Natural Calamity.**

Activities Towards Health & Hygiene



Table-5: Year wise Expenditure details towards CSR Activities

Year wise Expenditure towards CSR Activities	
Year	Expenditure (Rs in Lacs)
2011-12	79.58
2012-13	75.35
2013-14	67.28
2014-15	45.65
2015-16	65.00

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B. General Conditions

I. The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.

Status: Company abides by the stipulated conditions of OSPCB.

II. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.

Status: Any further expansion will be done with prior approval of Ministry of Environment and Forest & CC.

III. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum concentration of SPM, SO₂ and NO_x are anticipated in consultation with the OPCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the OPCB / CPCB once in six months.

Status: Ambient air quality has been monitored at six different location in the downward wind direction for the parameters viz PM₁₀, PM_{2.5}, SO₂, NO₂ and data being submitted to OSPCB and MOEFF & CC. Monitoring report is given in Table-.2 & 3.

IV. In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fume and dust extraction system with bag filters shall be provided at the transfer and discharge points to control fugitive emissions. Further, specific measures like water sprinkling around the raw material storage areas and asphaltting or concreting of the roads shall be done to control fugitive emissions.

Status: Two nos. of Mobile water tankers are used for water sprinkling on roads throughout year with 4KL water carrying capacity each. Dry fog dust suppression system has been installed at underground bunkers and in respective conveyors of the Furnaces to avoid fugitive emission during loading, unloading & feeding of raw materials.

Photographs of mobile sprinkler, fixed sprinkler & dry fog system are given as **Photo 3,4,5 & 6.**

Photographs of concrete haul road are given in **Photo 17.**



Photo-17: Showing Concrete haul roads inside plant premises

V. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.

Status: There is no generation of waste water form industrial activities. However the waste water generating from canteen & guest house is treated in the STP of 50KL capacity and the treated water is being reused in plantation. Other Domestic waste water is discharged to septic tank followed by Soak Pit.

VI. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.

Status: One artificial recharging pit has been constructed inside the plant premises as per recommendation in the rain water harvesting study report. In addition to the above, construction of another RWH system is under progress which shall be completed by January'16.



Photo- 18: Showing Rooftop Rain Water harvesting Structure

VII. The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).

Status: All the machineries are well covered; regular maintenance is going on to reduce the noise generation. PPEs are provided to the workmen working at noise prone area. Regular monitoring of Noise level is going on and accordingly measure has been taken for decrease noise level at source.

Noise level monitoring report given in Table- 6.

Table-6: Month wise Average Noise in dB(A) (April 2016-September 2016)										
Month	Pump House		Compressor Room		GCP Area		MRP Area		Sales Yard	
	Day Time (06:00 AM-10:00 PM)	Night Time (10:00 PM - 06:00 AM)	Day Time (06:00 AM-10:00 PM)	Night Time (10:00 PM - 06:00 AM)	Day Time (06:00 AM-10:00 PM)	Night Time (10:00 PM - 06:00 AM)	Day Time (06:00 AM-10:00 PM)	Night Time (10:00 PM - 06:00 AM)	Day Time (06:00 AM-10:00 PM)	Night Time (10:00 PM - 06:00 AM)
PCB Norms	Day Time-75dB(A)	Night Time-70dB(A)	Day Time-75dB(A)	Night Time-70dB(A)	Day Time-75dB(A)	Night Time-70dB(A)	Day Time-75dB(A)	Night Time-70dB(A)	Day Time-75dB(A)	Night Time-75dB(A)
October'15	68.7	62.1	67.8	63.8	67.8	63.3	68.4	60.1	67.3	61.7
November '15	72.5	60.9	70.8	62.5	66.9	65.2	70.3	58.4	70.3	63.7
December'15	70.4	59.9	66.4	64.8	67.9	62.8	72.9	58.3	69.6	61.3

January'16	68.5	63.5	65.7	60.6	65.3	63.6	68.2	50.6	69.9	64
February'16	69.6	61.4	67.7	64.2	67.2	64.1	65.3	53.3	70	64.7
March'16	70.5	64.2	71.6	61.1	68.3	62.8	68.5	55.5	68.6	64.4

VIII. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

Status: Periodical Health check of each Employee is being done by specialist doctor on regular basis as per Factories Act.

Details of IME/PME given in Table-7.

Table-7: Details of IME & PME

SL NO	CATEGORY	MAN POWER	IME EXECUTED	PME EXECUTED
1	Permanent	680	680	600
2	Contractual	858	858	760

IX. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.

Status: All the environmental protection measures have been taken up as per recommendations EIA/EMP report. Company also undertaken socioeconomic development works under CSR activity as per company rule.

X. As proposed, Rs. 3.00 Crores and Rs. 5.0 Lakhs/annum earmarked towards capital cost and recurring cost/annum for the environment pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.

Status: Details of expenditure incurred towards environmental control measures given in Table-8.

Table-8: Details of the expenditure incurred towards Environment Management

Sl. No.	Activity	Expenditure in INR (Approx.)
		Oct' 15 to March' 16
1	Plantation	6000000.00
2	Environmental Monitoring	300000.00
3	Dust suppression (GCP , Mobile sprinkler)	32512867 .00
4	Water Tax & Cess Payment	1007665.00
5	Infrastructure development viz. Rain Water Harvesting, STP etc	1100000.00
Total		40920532.00

- XII. The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.**

Status: Report on status of compliance to the conditions stipulated in the EC has been submitted to MoEF & CC, BBSR on six monthly basis. Copy of last submission given in **Annexure- 5**.

- XIII. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.**

Status: Information regarding issuance of environmental Clearance was published in Odia news paper "Samaj and Ajikali". Copy of the same is attached as **Annexure-6**.

- XIV. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.**

Status: We will abide by the said condition.

CREP Points

CREP POINTS	STATUS
Integrated Iron and Steel Plant	
A.- Coke Oven (by- product type)	Not applicable
B.- Sintering Plant	Not applicable
C.- Blast Furnace	Not applicable
D.- Steel Making Shop- Basic Oxygen Furnace	Not applicable
E.- Rolling Mills	Not applicable
F.- Arc Furnaces	
Particulate matter (mg/Nm ³)= 150	All the five furnaces are equipped with pollution control device (gas cleaning plant) and emission level is less than 150 mg/M ³ .
G.- Induction Furnaces	Not applicable
H.- Cupola Foundry	Not applicable
1.- Calcination Plant/Lime Kiln/Dolomite Kiln	Not applicable
J.- Refractory Unit	Not applicable
Emission Standards	
Particulate matter- 150 (mg/Nm ³)	

1. The height of the each process stack shall be a minimum of 30 metres or as per the formula $H = 14 (Q)^{0.3}$ (whichever is more), where "H" is the height of stack in metre; and "Q" is the maximum quantity of SO ₂ in kg/hr expected to be emitted through the stack at rated capacity of the plant(s) and calculated as per the norms of gaseous emission.	Heights of our five stacks are 40 mtr.
2. The plants having separate stack for gaseous emission for the scrubbing unit, the height of this stack shall be equal to main stack of the plant or 30 metres, whichever is higher.	Not applicable
3. It is essential that stack constructed over the cupola beyond the charging door and emissions shall be directed through the stack which should be at least six times the diameter of cupola.	Not applicable
4. In respect of Arc Furnaces and Induction Furnaces provision shall be made for collecting the fumes before discharging the emissions through the stack.	Furnace flue gas passed through bag filter of gas cleaning plant before emission through stack. Fumes are collected and clean gas is emitted through stack (Particulate matter below the limit prescribed by state pollution control board)
5. Foundries shall install scrubber, followed by a stack of height atleast six times the diameter of the Cupola beyond the charging door.	Not applicable
6. Recovery type converters shall be installed in new plants or expansion projects.	Not applicable
Storm water	
(i) Storm water shall not be allowed to mix with effluent, scrubber water and/or floor washings.	Separate storm water drain is constructed around the plant.
(ii) Storm water shall be channelized through separate drains as per natural gradient, passing through High Density Polyethylene (HDPE) lined pits, each having holding capacity of 10 minutes (hourly average) of rainfall.	Strom water drain is constructed separately as per natural gradient and pits lined with HDPE are provided for discharge of water.



भारत सरकार
केन्द्रीय भूमि जल प्राधिकरण
जल संसाधन मंत्रालय

Government of India
Central Ground Water Authority
Ministry of Water Resources

Superintending Hydrogeologist

CGWA/IND/Proj/2014- 1591

No.21-4(41)/SER/CGWA/2008- 1601

Dated:- 30 SEP 2014

To,

M/s Balasore Alloys Ltd.,
At/PO Balgopalpur,
District Balasore-756020
Odisha

Sub:- NOC for ground water withdrawal in respect of M/s Balasore Alloys Ltd., for their Bulk Ferro Alloys unit located at Village Balgopalpur, Block Remuna, Tehsil Nilgiri, District Balasore, Odisha – reg.

Refer to your letter dated 21.05.2014 on the above cited subject. Based on recommendations of Regional Director, Central Ground Water Board, South Eastern Region, Bhubaneswar vide their office letter no. 5-22/SER/CGWA/2014- 663 dated 17.07.2014, the NOC issued vide this office letter No. 21-4(41)/SER/CGWA/2008-642 dated 6.6.2008 for 1699 m³/day ground water withdrawal and vide letter No. 21-4(40)/SER/CGWA/2008-1795 dated 31.12.2008 for 131 m³/day for ground water withdrawal is hereby consolidated and modified. Now, after further deliberations on the subject the consolidated NOC for ground water withdrawal is hereby accorded to M/s Balasore Alloys Ltd., for their Bulk Ferro Alloys unit located at Village Balgopalpur, Block Remuna, Tehsil Nilgiri, District Balasore, Odisha. The NOC is, however subject to the following conditions:-

1. The firm may abstract 1377 m³/day of ground water (not exceeding 5,02,605 m³/year) of ground water, through existing five (5) borewells only. No additional ground water abstraction structures to be constructed for this purpose without prior approval of the CGWA.
2. The wells to be fitted with water meter by the firm at its own cost and monitoring of ground water abstraction to be undertaken accordingly on regular basis, at least once in a month. The ground water quality to be monitored twice in a year during pre monsoon and post monsoon periods.
3. M/s Balasore Alloys Ltd., shall, in consultation with the Regional Director, Central Ground Water Board, South Eastern Region, Bhubaneswar implement ground water recharge measures to the tune of 67,884 m³/year as proposed for augmenting the ground water resources of the area within six months from the date of issue of this letter.
4. The photographs of the recharge structures after completion of the same are to be furnished immediately to the Regional Director, Central Ground Water Board, South Eastern Region, Bhubaneswar for verification and under intimation to this office.

West Block - 2, Wing - 3, Sector - 1, R.K. Puram, New Delhi - 110066

Tel : 011-26175362, 26175373, 26175379 • Fax : 011-26175369

Website : www.cgwb.gov.in, www.mcwr.gov.in

स्वच्छ सुरक्षित जल - सुन्दर युवावस्था कल

CONSERVE WATER - SAVE LIFE

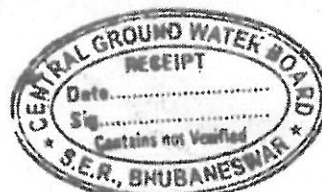
BALASORE ALLOYS LIMITED

CIN-L27101OR1984PLC001354

Ref. No. : BAL/Plant/CGWB/ 3901

Date: 22.11.2016

The Regional Director
Central Ground Water Board,
South Eastern Region
Bhujal Bhawan, Khandagiri Square,
Bhubaneswar-751030 (Odisha).



Sub: Application for Renewal of No Objection Certificate obtained vide letter no. 21-4(41)/SER/CGWA/2008-1601 Dt. 30.10.2014 for withdrawal of total 1377m³/Day of Ground Water in respect of M/s Balasore Alloys Ltd. Located at Village Balgopalpur, Balasore, Odisha. **Regarding Submission of Compliances.**

Ref: Your letter No-21-4(41)/SER/CGWA/2008-2348 dated 19th Oct.2016


Dear Sir,

With reference to the above mention subject, we would like to inform you that application has been submitted for renewal of NOC Vide No. 21-4(41)/SER/CGWA/2008-1601 dated 30.09.2014 for ground water withdrawal in respect of M/s Balasore Alloys Ltd for Ferro Alloys Unit Located in Balgopalpur Industrial Estate Village: Balgopalpur, Block: Remuna, Tehsil: Nilgiri, Dist: Balasore, Odisha at your office Vide our letter No BAL/Plant/CGWA/1302 dated 13.06.2016 in the format provided in the CGWA website. In continuation to same application, we are submitting the application in updated format (in duplicate) along with Demand Draft of Rs 500/- (Five Hundred only) bearing No 736759 drawn on 16/11/2016 towards application fee for your Kind perusal.

With above submission, we request your good office to consider our application and to accord renewal of NOC for ground water withdrawal as applied.

Thanking You
With Regards

Yours Faithfully
For BALASORE ALLOYS LIMITED


Authorised Signatory

CC:- Member Secretary, CGWA, West Block-2, Wing-3, R.K.Puram, Sector-1, New Delhi – 110066.

BALASORE ALLOYS LIMITED

CIN-L27101OR1984PLC001354

Ref. No. : BAL/CGWB/1302
Date : 8th June'2016

To

The Regional Director
Central Ground Water Board,
Bhujal Bhawan, Khandagiri Square,
Bhubaneswar-750030 (Odisha).

Sub: Application for Renewal of No Objection Certificate obtained vide letter no. 21-4(41)/SER/CGWA/2008-1601 Dt. 30.10.2014 for withdrawal of total 1377m³/Day of Ground Water in respect of M/s Balasore Alloys Ltd. Located at Village Balgopalpur, Balasore, Odisha.

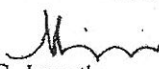
Sir,

With reference to the above mention subject, we are herewith submitting the application for renewal of No Objection Certificate (NOC) obtained vide letter no. 21-4(41)/SER/CGWA/2008-1601 Dt. 30.10.2014 in prescribed Format along with necessary documents for withdrawal of 1377 m³/ Day in respect of Ferro chrome plant of M/s Balasore Alloys Ltd Located at Village Balgopalpur, Balasore, Odisha.

Therefore, we request your good office to consider our application and to accord renewal of NOC for ground water withdrawal as per detail submitted in prescribed format.

Thanking You
with Regards

Yours Faithfully
For BALASORE ALLOYS LIMITED


G. Janarthanam
Director (Operation)



CC:- Member Secretary, CGWA, West Block-2, Wing-3, R.K.Puram, Sector-1, New Delhi - 110066.

List of Annexure:

1. Site Plan- Annexure -I.
2. Location of the Unit- Annexure-II.
3. Copy of the NOC Obtained-Annexure-III.
4. Compliance status to the conditions prescribed in the NOC -Annexure-IV.



BY SPEED POST

FAX : 2562822/2560655
Tel : 2564333/2563924
EPAHX : 2561909/2562847
E-mail : board@opcb.ori.in
opcb@opcb.ori.in
Website : www.opcb.ori.in

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]

Partibesh Bihawan, A/118, Nilakantha Nagar, Unit - VIII

Bhubaneswar - 751 012, INDIA

FORM 2

[See rules 5(4)]

GRANT OF AUTHORIZATION FOR GENERATION, HANDLING, COLLECTION, STORAGE, AND DISPOSAL OF HAZARDOUS WASTE

(This Authorization order supersedes the previous
authorization order no. 9711, dtd. 12-06-2015)

1. Number of authorization IND-IV-HW-293/ 14630 and date of issue 03-09 /2015.
2. M/S BALASORE ALLOYS LTD., is hereby granted an authorization to operate a facility for generation, handling, collection, storage and disposal of hazardous waste on the premises situated AT/PO - BALAGOPALPUR, DIST- BALASORE, ODISHA -756020.
3. The authorization shall be in force for a period up to 31.03.2019.
4. The authorization is subject to the conditions stated below and the such conditions as may be specified in the Rules for the time being in force under the Environment (Protection) Act, 1986.

5. The applicant shall handle hazardous waste as specified below:

Sl. No.	Stream	Schedule	Waste Description	Quantity /A	Disposal
1	2	3	4	5	6
1.	5.1	1	Used Oil	15.54 KL	Storage in impervious pits / containers under covered shed followed by sale to Authorized Recycler / Re-processor
2.	5.2	1	Waste containing oil	20 Kg.	Storage in impervious pits / containers under covered shed followed by final disposal in Authorized HW incinerator / Common Hazardous Waste Treatment Storage Disposal Facility (CHWTSDF), Jajpur
3.	3.2/3.3	1	Oily sludge	-	Storage in impervious pits / containers under covered shed followed by sale to Authorized recyclers of waste oil / disposal in Hazardous Waste incinerator / CHWTSDF
4.	34.1	1	Flue gas cleaning Residues	1450 T	Storage in impervious platform under covered shed followed by utilization for manufacturing of briquettes for use as raw material in the furnace inside its factory premises

TERMS AND CONDITIONS OF AUTHORIZATION

GENERAL CONDITIONS

1. This authorization does not permit you to either receive and process or generate hazardous waste in case validity of Consent to Operate of your unit ceases. However you can carry out handling, storage, treatment, transport and disposal of hazardous waste generated previously during such period to avoid accumulation of hazardous waste.
2. The authorization shall comply with the provisions of the Environment (Protection) Act, 1986, and the Rules made there under.
3. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.

BALASORE ALLOYS LIMITED



CIN-L27101OR1984PLC001354

Ref. No. : BALB/ENV/....¹³⁷⁷
Date : 24th June' 2016

To,

The Sr. Environment Engineer
State Pollution Control Board, Odisha
Paribesh Bhawan, A/118, Nilkantha Nagar
Unit-VIII
Bhubaneswar-751012 (Odisha)

Sub: Submission of Annual Return in Form-4 regarding handling of Hazardous Wastes.

Sir,

We are hereby submitting the annual return regarding Hazardous Waste Management in the Form- 4 for the Year 2015-2016.

Kindly acknowledge the same


Thanking You.

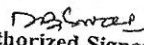
Yours truly,
For **BALASORE ALLOYS LIMITED**



G. Janarthanam
Director (Operation)

Encl : Form- 4
CC : Regional Officer, SPCB, Sahadevkhunta, Balasore



 KALYANI LABORATORIES PVT. LTD. <small>84/A, BASULGARH, BHUBANESWAR-751006, ODISHA</small>								
TEST REPORT								
Test Report No.: KLPL-TR/10/16/S - 3889T Issue date: 31.10.2016								
Name and address of the Customer: M/s Balasore Alloys Limited, Balgopalpur, Balasore, Odisha -- 756020 Customer's reference: 4800005810VO, Date 17.06.2016								
Date of Sample Receipt: 21.10.2016			Testing Dt.: 21.10.2016			Test completion Dt.: 29.10.2016		
Sample Description: Slag			No. of Samples: 250 gm x 1					
Sample Condition: Sealed Ploy Pack								
Sampling Method used, if any:								
Parameters	Cr (VI)	Cr (III)	Cu	Total Cr	Zn	Pb	Ni	Cd
Results (mg/l)	0.06	0.030	< 0.02	0.007	0.15	0.031	0.06	< 0.005
Regulatory levels (mg/l) as per CPCB	5.0	--	--	--	--	5	--	1.0
Test Method	TCLP Criteria of hazardous waste characterisation procedure							
Remarks	Nil							
Any unusual feature observed during determination	Nil							
***** End of Test Report *****								


 Authorized Signatory
 Kalyani Laboratories Private Limited



Sl. No	Parameters	Results	Units	Acceptable Limit (IS: 10500:2012)	Test Methods
ORGANOLEPTIC & PHYSICAL PARAMETERS					
1.	Colour	< 1.0	Hazen, Max	5	IS 3025 (Part 4):1983 RA 2012
2.	Odour	Agreeable	--	Agreeable	IS 3025 (Part 5):1983 RA 2012
3.	pH value	7.4	--	6.5-8.5	IS 3025 (Part 11):1983 RA 2012
4.	Taste	Agreeable	--	Agreeable	IS 3025 (Part 8):1984 RA 2006
5.	Turbidity	0.1	NTU, Max	1.0	IS 3025 (Part 10):1984 RA 2006
6.	Total dissolved solids	190	mg/l, Max	500	IS 3025 (Part 16):1984 RA 2006
7.	Total Suspended Solid	6	mg/l	--	APHA-22 nd Edition (2540 D)
GENERAL PARAMETERS					
8.	Aluminium (as Al)	< 0.02	mg/l, Max	0.03	IS 3025 (Part 55):2003 RA 2009
9.	Ammonia as N	< 0.6	mg/l, Max	0.50	IS 3025 (Part 34):1988 RA 2009
10.	Anionic detergents (as MBAS)	< 0.2	mg/l, Max	0.20	Annex K of IS 13428:2005
11.	Barium (as Ba),	< 0.1	mg/l, Max	0.70	Annex F of IS 13428:2005 or IS 15302:2003 RA 2009
12.	Boron (as B)	< 0.1	mg/l, Max	0.50	IS 3025 (Part 57):2005 RA 2010
13.	Calcium (as Ca)	22.4	mg/l, Max	75	IS 3025 (Part 40):1991 RA 2009
14.	Chloride (as Cl)	16	mg/l, Max	250	IS 3025 (Part 32):1988 RA 2009
15.	Copper (as Cu)	< 0.02	mg/l, Max	0.05	IS 3025 (Part 42):1992 RA 2009



BALASORE ALLOYS LIMITED



CIN-L27101OR1984PLC001354

Ref. No. : BALB/ENV/MOEF/.../11.84
Date : 28.05.2016

To,
The Chief Conservator of Forests (Eastern)
Regional Office (EZ), A/3,
Chandrasekharapur,
Bhubaneswar-751023,
Odisha

Ref: E.C letter No. J-11011/245/2008-IAII(I)

Sub: Compliance Status Report (Oct'15 to March'16) for the proposed expansion
project of 57 MVA to 84 MVA by transformer capacity changing of F/C 1, 4 &
5.

Sir,

The proposed expansion of our project (95,000 TPA to 1,45,000 TPA) by capacity
enhancement of transformer of existing sub merged Arc furnaces 1,4& 5 from
57MVA to 84 MVA has not been started yet.


The compliance report for the month Oct'15 to March'16 is enclosed.

This is for your kind information.

Thanking You.

Yours Truly,

For Balasore Alloys Limited


G. Janarthanam
Director(O)

CC: Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-
cum-Office Complex, East Arjun Nagar, New Delhi-110032

The Secretary, Department of Environment & Forest, Govt. of Orissa,
Bhubaneswar, Orissa

Chairman, Orissa Pollution Control Board, Parivesh Bhawan, A/118
Neelkanthnagar, Unit-8, Bhubaneswar-751012, Orissa

ନୋଟିସ

ଏତଦ୍ୱାରା ସର୍ବସାଧାରଣଙ୍କ ଅବଗତ ନିମନ୍ତେ ଜଣାଇ ଦିଆଯାଉଛି ଯେ, ବାଲେଶ୍ୱର ଆଲଏଲ୍ ଲିମିଟେଡ୍, ବାଲେଶ୍ୱର ଦୂରା ସମ୍ପ୍ରସାରିତ ଫେରୋ ଆଲଏଲ୍ ପ୍ଲାଣ୍ଟ ପ୍ରକଳ୍ପର ପରିବେଶ ଓ ଜଙ୍ଗଲ ମନ୍ତ୍ରାଳୟ ମଞ୍ଜୁରୀ ପ୍ରଦାନ କରାଯାଇଛି । ଏହି ମଞ୍ଜୁରୀ ପତ୍ର ଭୁବନେଶ୍ୱରସ୍ଥିତ ଓପିସିଟିର ଆଞ୍ଚଳିକ କାର୍ଯ୍ୟାଳୟ ଏବଂ କେନ୍ଦ୍ର ସରକାରଙ୍କ ଜଙ୍ଗଲ ଓ ପରିବେଶ ମନ୍ତ୍ରାଳୟ ୱେବସାଇଟ୍ <http://envfor.nic.in> ଠିକ୍ ଜପାଇଛି ।

ବାଲେଶ୍ୱର ଆଲଏଲ୍ ଲିମିଟେଡ୍
ବାଲେଶ୍ୱର ଦୂରା ସମ୍ପ୍ରସାରକ, ବାଲେଶ୍ୱର

" THE SAMAJA "

Date: 16.09.2008

Tuesday

ନୋଟିସ

ଏତଦ୍ୱାରା ସର୍ବସାଧାରଣଙ୍କ ଅବଗତ ନିମନ୍ତେ ଜଣାଇ ଦିଆଯାଉଛି ଯେ, ବାଲେଶ୍ୱର ଆଲଏଲ୍ ଲିମିଟେଡ୍, ବାଲେଶ୍ୱର ଦୂରା ସମ୍ପ୍ରସାରିତ ଫେରୋ ଆଲଏଲ୍ ପ୍ଲାଣ୍ଟ ପ୍ରକଳ୍ପର ପରିବେଶ ଓ ଜଙ୍ଗଲ ମନ୍ତ୍ରାଳୟ ପକ୍ଷରୁ ମଞ୍ଜୁରୀ ପ୍ରଦାନ କରାଯାଇଛି । ଏହି ମଞ୍ଜୁରୀ ପତ୍ର ଭୁବନେଶ୍ୱର ସ୍ଥିତ ଓପିସିଟିର ଆଞ୍ଚଳିକ କାର୍ଯ୍ୟାଳୟ ଓ କେନ୍ଦ୍ର ସରକାରଙ୍କ ଜଙ୍ଗଲ ଓ ପରିବେଶ ମନ୍ତ୍ରାଳୟ ୱେବସାଇଟ୍ <http://envfor.nic.in> ଠିକ୍ ଜପାଇଛି ।

ବାଲେଶ୍ୱର ଆଲଏଲ୍ ଲିମିଟେଡ୍
ବାଲେଶ୍ୱର ଦୂରା ସମ୍ପ୍ରସାରକ, ବାଲେଶ୍ୱର

" AJIKALI "

Date: 25.09.2008

Thursday
