HIRA
R.R. ISPAT

RRI/EMS/2017-18/3112

23.12.2017

To

The Additional Principle Chief Conservator of Forest(C),
Ministry of Environment, Forests & Climate Change,
Regional Office (WCZ), Ground Floor,
East Wing, New Scretariat Building,
Civil Lines, Nagpur – 440 001.

Sub : Half Yearly Report on Compliance Status of the Conditions stipulated in Environment Clearance

Ref : Environmental Clearance vide letter No. 495/SEIAA-CG/EC/Rolling Mill/RYP/20 Dated 06/11/2011 of Rolling Mill of capacity 1,00,000 TPA of RR Ispat (A Unit of Godawari Power & Ispat Ltd.) at Urla Industrial Area, Raipur.

Dear Sir,

This has reference to the Environment Clearance for our Rolling Mill of capacity 1.00 lac TPA situated at Urla Industrial Area, Raipur, Chhattisgarh.

We are submitting the six monthly compliance status in respect of the above EC for the period from 1st April, 2017 to 30th September, 2017.

This is for your kind information and record please.

Thanking you,

Yours faithfully,
For **RR Ispat (A Unit of Godawari Power & Ispat Ltd.)**

Authorized Signatory

Encl. : As above.
cc to : The Zonal Officer, CPCB, Bhopal (M.P.)
cc to : The Chairman, SEIAA, Chhattisgarh, Raipur (C.G.)
cc to : The Member Secretary, CECB, Raipur (C.G.)

मुख्यालय, छ.ग. पर्यावरण संरक्षण मंडल
28/12/17
नया रायपुर (छ.ग.)

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forest & Climate Change
क्षेत्रीय कार्यालय (पश्चिम मध्य क्षेत्र)
Regional Office (Western Central Zone)
भू-तल, पूर्व खण्ड / Ground Floor, East Wing
नया सचिवालय भवन / New Secretariat Building
सिविल लाईन्स / Civil Lines
नागपुर / Nagpur-440 001

R.R. ISPAT (A GODAWARI POWER & ISPAT LTD.)

COMPLIANCE STATUS OF CONDITIONS STIPULATED BY SEIAA, MOEF IN ENVIRONMENTAL CLEARANCE ACCORDED VIDE LETTER NO. **495/SEIAA-CG/EC/ ROLLING MILL/RYP/20 Dated 06/01/2011.**

Period from 1st April, 2017 to 30th September, 2017

SN.	CONDITIONS	COMPLIANCE STATUS
1	No additional land shall be acquired for expansion project.	No additional land is acquired for expansion project
2	Project authority shall provide adequate facility for proper treatment of industrial effluent and domestic effluent. Domestic effluent shall be treated in well designed septic tank and soak pits. In case of any failure of effluent treatment arrangement, it shall be immediately rectified or some alternate arrangement shall be provided. Treated effluent shall be Utilized either in process or for plantation purposes within plant premises. Any liquid effluent what so ever generated from industrial activities and un-treated /treated domestic effluent shall not be discharged into the river or any surface water bodies under any circumstances. The treated domestic effluent shall be used for plantation purpose after proper disinfection. Project authority shall make arrangement of suitable drains/pipe network to ensure adequate flow for full utilization of treated effluent inside premises. The concept of zero discharge shall be maintained all the time except during monsoon. Arrangements shall be made that effluent and storm water do not get mixed. Project authority shall ensure the treated effluent quality within standard prescribed by Ministry of Environment & Forests, Government of India. Industrial waste water shall conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and December, 1993 or as amended from time to time.	Out of 50 KLD permission from CSIDC, 20 KLD of water is being used for existing Rolling Mill capacity of 1.00 lac TPA. Industrial effluent is being treated and used in dust suppression and afforestation. The domestic effluent is being treated in septic tank and soak pit. No effluent is discharged outside the premises. Zero effluent discharge is being adopted by the company all the time except monsoon periods. Proper drainage arrangement has been made so that effluent water and storm water do not get mixed.
3	Project authority shall provide adequate measuring arrangements for the measurement of water utilized in different categories and effluent generated before commissioning of the plant with expanded capacity.	Water meters have already been installed for the measurement of water utilized and the same are operational.
4	Closed cycle cooling system shall be provided. Minimum water for makeup purposes shall be ensured.	Closed circuit cooling system implemented. Make up water has been

		estimated to max. 20 KL/day.
5	Project authority shall ensure that particulate matter emission shall not exceed 50 mg/Nm^3 under any circumstances by up-gradation/modification of existing air pollution control systems.	We have already installed the high efficiency wet scrubber and the same is operational and ensured that the particulate matter emission is being less than 50 mg/Nm^3.
6	Project authority shall provide adequate air pollution control arrangements at all point and non point sources. Scrubber and air recuperator of adequate capacity and high efficiency shall be installed in rolling mill reheating furnace to ensure outlet dust (particulate matter) emission less than 50 mg/Nm^3 all the time. Low NOx burners should be installed in furnace of rolling mill. Project authority shall install suitable & effective air pollution control equipment's at all transfer point, junction point etc. also all the conveying system, transfer point, junction point etc. shall be covered. Adequate provision shall be made for sprinkling of water at strategic locations to ensure dust does not get air borne. For controlling fugitive dust regular sprinkling of water in vulnerable areas of the plant shall be ensured. Proper ventilation shall also be provided in rolling mill plant. The emission of pollutants from any point source shall not exceed the following limit:- Particulate Matter: 50 mg / Nm^3 (Fifty Milligram per Normal Cubic Meter) Project authority shall provide proper space provision for further retrofitting of air pollution control systems in case of further stringency of particulate matter emission limit. Stack attached to furnace of rolling mill should be based on 5% sulfur content in furnace oil. Height of stack of existing rolling mill be 44 meters.	The present stack height is 44 mtrs as per the stipulations. Recuperator of 15000 m^3/hr. has been installed between chimney and reheating furnace and the same is operational. Scrubber with ID fan of capacity 15000 m^3/hr for flue gas treatment has been installed between the recuperator and chimney to achieve the outlet dust emission less than 50 mg/Nm^3. Space provision exists for further retrofitting of air pollution control systems in case of further stringency of particulate matter emission limit by CECB. The regular monitoring is being carried out. The results of the same are being submitted to Chhattisgarh Environment Conservation Board, Regional Office Raipur every month and to RO, MoEF along with six monthly report.
7	The gaseous emission from various process units shall conform to the load/mass based standards notified by this Ministry of Environment and Forests, Government of India on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of industry and its size and location.	The gaseous emission from the process is well within the norms as per load/mass based standards notified by the Ministry. Interlocking facilities has been provided so that process can be

	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.	automatically stopped in case emission level exceeds the limit. Online continuous monitoring system for continuous measurement of particulate matter has been installed on 18th November, 2016.
8	Secondary fugitive emission shall be controlled and shall be kept within the prescribed limits and regularly monitored. Guidelines/Code of practice issued by the CPCB in this regard shall be followed. Project authority shall maintain fugitive dust emission to the minimum level in the areas of road transportation routes of raw material, product to ensure National Ambient air Quality standers prescribed including black topping/asphalting/concreting and maintenance with requisite water sprinkling arrangements.	Secondary fugitive emission has been controlled with the following measures : a. All the internal roads and raw material handling yards have been concretized. b. Collection of road spillage materials at regular intervals. c. Regular water sprinkling at dust generating points. The concentration of fugitive emission is being monitored regularly and the results of the same are within the permissible limits.
9	All pollution control systems shall be kept in good running condition all the time and failure (if any) shall be immediately rectified without delay otherwise similar alternate arrangement shall be made. In the event of any failure any pollution control system adopted by the project authority, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	All air pollution control systems are kept in good running conditions all the time. In case of failure (if any), the same are being immediately rectified without delay otherwise similar alternate arrangement are being made. We have ensured that in the event of any failure of any pollution control system adopted by the industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
10	Regular monitoring of ground level concentration of SO_2, NOx, SPM and RSPM (PM_{10} , $PM_{2.5}$) at at-least four stations shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, the plant shall cease all operations till necessary control measures are provided. The location of the monitoring stations and frequency of	The ambient air quality monitoring is being done at two monitoring stations of impact zone as per the locations suggested by the Regional office, CECB, Raipur vide letter No. 45 dated 06/04/2011.

	monitoring shall be decided in consultation with Chhattisgarh Environment Conservation Board Raipur. The data so collected shall be properly analyzed and periodic reports shall be submitted to Chhattisgarh Environment Conservation Board, Raipur, Regional office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.	The regular monitoring of RPM, SPM, SO_2, NO_X is being carried out. The results of the same are being submitted to Chhattisgarh Environment Conservation Board, Regional Office Raipur every month and to RO, MoEF along with six monthly report. A copy of latest monitoring report is enclosed in **Annexure-I.**
11	Project authority shall install separate electric metering arrangements with time tantalizer and interlocking arrangement for the running of pollution control devices. These arrangements shall be made in such a fashion that any non-functioning of pollution control device / devices shall immediately stop the electric supply to the fuel/raw materials supply system and shall remain tripped till the pollution control device/devices are made functional again/rectified to achieve the desired efficiency.	we have currently installed separate electric meter for running pollution control equipment. Photographs enclosed (**Annexure-II**). Water scrubber installed for control of SO_2 level from flue gas. The procedure is observed regularly that electric supply is being stopped in the case of non-functioning of pollution control equipments.
12	Project authority shall utilize the fly-ash bricks/blocks etc. in all construction activities.	Fly ash bricks/blocks, fly ash based products are being used in construction/ repairing activities regularly.
13	Project authority shall take effective steps for safe disposal of solid wastes and sludge. End cutting from rolling mill shall be used as raw material in induction furnace units. Mill scales shall be sold to sinter plant/ferro alloys/ casting units. Oily sludge shall be sold to authorized recyclers / re-processors for proper disposal through incineration. Project authority shall obtain authorization from Board for management and handling of hazardous materials as per Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 2008 (as amended up to date).	Solid waste such as the end cutting of rolling mill and mill scale is being reused in in-house units of the plant. Presently 100% heating of raw material has been done by producer gas, hence no oily sludge is generated. Authorization under HW (Management, Handling and Trans boundary Movement) Rules, 2008 obtained vide letter 2230 dated 18/07/2016.
14	Coal ash from coal gasifier shall be used in fly ash brick plant / land filling and coal tar shall be sold to registered vendors. Mill scales shall be collected through sedimentation pit and utilized as a raw material in steel/ferro alloys plant.	The coal ash generated from the coal gasifier is being utilized in the fly ash brick plant. Tar is being sold to registered vendors. Mill scale is being reused in in-house steel/ferro alloy plants.

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		We have already applied for tar generation under HW (Management, Handling and Trans boundary Movement) Rules, 2016 vide our Application No. 399614.
15	All the internal roads shall be made pucca. Project authority shall adopt good house keeping practices.	All the internal roads are already made concretized and good house keeping is being adopted.
16	Project authority shall take proper action to control the noise pollution. Project authority shall install appropriate noise barriers / control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation to control the noise. Earplugs/ear muffs etc. shall be provided to the employees working in the high noise areas. Leq of / noise levels emanating from machines shall be limited to 75 dB (A). The noise level shall not exceed the limits 75 dB(A) during the day time and 70 dB(A) during the night time within the factory premises. Project authority shall take adequate measures for control of noise level below 85 dB (A) in the work environment. Workers engaged in noisy areas shall be periodically examined to maintain audio-metric record and for treatment for any hearing loss including rotating them to non-noisy /less noisy areas.	Control measures such as maintenance of all machines are being done regularly. The noise level is well within prescribed standard in the plant premises as well as work environment. However, as a precaution, the workers engaged at noisy areas are being providing with ear plugs/muffs.
17	Project authority shall provide appropriate arrangements to avoid air pollution, water pollution, noise pollution etc. during construction phase and during the transportation of plants/ machineries/ equipments/ construction materials etc. to the site. For controlling fugitive dust during transportation and construction works, regular sprinkling of water in village roads and other vulnerable areas of the plant shall be ensured. The emission from vehicles engaged for transportation of plants/ machineries/ equipments/ construction materials etc. to the site shall be ensured within prescribed vehicle emission norms. First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	No additional construction was done in rolling mill. The capacity expansion from 42,500 MT to 1,00,000 TPA was based on increase in the working hours from single shift to two shifts rationalizing the production line, using the energy efficient DC drives.
18	The construction of effluent treatment system and installation of air pollution control equipments shall be taken up simultaneously with other civil/mechanical works of expansion / backward integration unit. The	The capacity expansion was done by increasing the working hours only and modification of the plant. Air Pollution Control equipments were

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	progress of the activities related to the project shall be submitted periodically to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.	already installed in the existing plant. The installation of wet scrubber and increase in stack height has already been intimated to the CECB, Raipur.
19	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires. Copy of these measures with full details along with location plant layout shall be submitted to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.	Complied as per directions of CECB.
20	Disaster Management plan shall be prepared to meet any eventually in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the DMP.	The DMP has already been prepared and submitted.
21	As far as possible maximum area of open spaces shall be utilized for plantation purposes. Project authority shall abide by the decisions taken by Ministry of Environment and Forests, Government of India / Central Government / Central Pollution Control Board from time to time in this regard. Adequate wide green belt of Local broad leaf species shall be developed in the 1.628 ha land.	We have already planted around 8890 nos plants in the plant area including all vacant areas, peripheral areas and road sides. Additional plantation with 12474 saplings was done in both sides of main road of Urla Industrial. Further plantation will be carried out during ensuing monsoon.
22	Central Pollution Control Board guidelines shall be followed in planning and developing green belt and selection of species etc.	Agreed and being followed the guidelines of CPCB.
23	Project authority shall provide garland drains with appropriate check dams all along the raw materials storage areas etc. to avoid any possibility of erosion (wearing away) during rain. Garland drain (size, gradient & length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the project site. Sump capacity shall also provide adequate retention period to allow proper settling of silt materials. Sedimentation pits shall be constructed at the corners of the garland drains. Project authority shall provide adequate collection and treatment arrangement for proper management of storm water. The surface run-off	Well drainage system already developed in raw material storage area and other areas of the plant.

	shall be de-silted through a series of check dams and drains.	
24	Project authority shall adopt rainwater-harvesting technique in the project area for recharge of ground water. Project authority shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season as well as to recharge the ground water table. A detailed scheme for rainwater harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board. A copy of the same shall be submitted within three months to the Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh & Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.	Complied. We have established the rain water harvesting system in our plant premises for recharge of ground water. 12 nos. of recharge wells have already been constructed within plant premises for rain water harvesting for the purpose of ground water recharge. Admin building and working sheds are being used for rain water harvesting.
25	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure & facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crutch etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied, project is operational.
26	Occupational Health Surveillance of the workers should be done on a regular basis & records maintained as per the factories Act.	Being implemented as per Factories Act.
27	The project proponent shall also comply with all the environmental protection measures & safe guards recommended in the Environment Impact Assessment Report/Environment Management Plan.	All environmental protection measures are being implemented as per the recommendations of EIA/EMP report.
28	Project authority shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who shall directly report to the head of organization. A full-fledged laboratory with qualified technical/scientific staffs to monitor the in-fluent, effluent, ground water, surface water, soil, stack emission & ambient air quality etc. shall be provided.	Now the Environmental Cell is functioning under the control of the AVP Mr. Mansoor Ali along with the EMS team of our parent company Godawari Power & Ispat Ltd. to monitor the environmental measures.
29	Recommendations made in the CREP for the steel plants shall be implemented.	Being complied. There is no waste water generation in the process. Thus Zero discharge is being maintained. 100% water is being utilized for cooling purpose.
30	Adequate funds shall be allocated for the undertaking	Being complied.

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	CSR activities (community welfare, environmental development activities apart from committed plantation) & in any case it shall not be less than Rs.15 lakhs/year or 5% of net profit (whichever would be higher) with 10% annual increase in subsequent years. Project authority must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply & health care etc. Details of activities shall also be submitted to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh & Regional Office, Ministry of Environment & Forests, Government of India, Bhopal. The Funds earmarked for the environment protection measures shall not be diverted for other purpose & year-wise expenditure should be reported to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh & Regional Office, Ministry of Environment & Forests, Government of India, Bhopal. Local laboures shall be given employment during construction & subsequently absorbed in the plant.	Since the company was amalgamated with its parent company Godawari Power & Ispat Ltd., all the CSR activities done by Godawari Power & Ispat Limited are combined for these two companies. Details of CSR expenditure is attached as **Annexure-III.**
31	The issuance of this environmental clearance does not convey any property rights in either real or personal property, or any exclusive privileges, nor does not authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local laws or regulations.	Noted and agreed.
32	SEIAA, Chhattisgarh reserves the right to amend/cancel any of the conditions & add new conditions & make further stringent the emission/ effluent limit as & when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.	Noted and agreed.
33	The Project authority shall ensure the generation of employment in the local areas, recruitment shall be done by inviting applications first from the local residents of the Chhattisgarh State. In case of non-availability of suitable candidates for certain post in the first attempt,	Agreed and being implemented.

	the project authority may call the applications as second call not only from local residents of the Chhattisgarh State but also from other State.	
34	The Project authority shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance & copies of clearance letter are available with the Chhattisgarh Environment Conservation Board and may also seen at website of the Ministry of Environment & Forests at www.envfor.nic.in & website of SEIAA, Chhattisgarh at www.seiaacg.org.	Complied.
35	Half yearly report on the status of implementation of the stipulated conditions & environment safeguards shall be submitted to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh & Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.	Noted and agreed. Six monthly reports are being sent regularly to RO, MoEF & CECB.
36	Regional Office of the Ministry of Environment & Forests at Bhopal shall monitor the implementation of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report & Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	Already complied.
37	The Project authorities shall inform the Regional Office as well as the SEIAA, Chhattisgarh regarding the date of financial closure & final approval of the project by the concerned authorities & the dates of start of commissioning of plant with expanded capacity.	Complied.
38	Full Cooperation shall be extended to the Scientists/Officers from the SEIAA, Chhattisgarh, Ministry of Environment & Forests, Government of India/Regional Office, Ministry of Environment & Forests, Government of India, Bhopal/the CPCB/the Chhattisgarh Environment Conservation Board, who would be monitoring the compliance of environment status.	Noted and agreed.

39	In case of any deviation or alteration in the proposed project from those submitted to this SEIAA, Chhattisgarh for clearance, a fresh reference should be made to the SEIAA, Chhattisgarh to assess the adequacy of the condition(s) imposed & to add additional environment protection measures required, if any. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment & Forests, Government of India/SEIAA, Chhattisgarh.	Noted and agreed.
40	The Project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) & the State Government.	Noted and agreed.
41	The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 & rules there under, Hazardous Wastes(Management, Handling & Trans Boundary Movement) Rules, 2008 & its amendments, the public Liability Insurance Act, 1991 & its amendments.	Noted and agreed.
42	The above conditions would be enforced inter-alia, under the provisions of the water (Prevention & Control of Pollution) Act. 1974, the Air (Prevention & Control of Pollution) Act. 1981, the environment (Protection) Act. 1986 & the public liability insurance Act, 1991 along with their amendments & Rules. The proponent shall ensure to provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water and occupational and other diseases due to the operations.	Noted and agreed.
43	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	Noted and agreed.

Annexure (I)

O/C

HIRA
R.R. ISPAT

Ref.: - RRIL/2017-18/518 **Dt. 11.10.2017**

To,

The Regional Officer,
C.G. Environmental Conservation Board,
Tatibandh,
Raipur (C.G.) 496 001

Subject: - Submission of Ambient Air Quality Report & Water analysis report.

Dear Sir,

We are submitting herewith Ambient Air Quality Report & Water Analysis Report for the month of **Sept. 2017.**

Kindly acknowledge receipt.

Thanking you,

Your's faithfully
For, **R.R. ISPAT,**
(A unit of Godawari Power & Ispat Limited),

(R.C. BHAGAT)
C.F.O.

Encl: a/a

R.O.E.C.B.
L.R No. ...
DATE 13
RAIPUR.

HIRA

GODAWARI POWER & ISPAT

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

AMBIENT AIR & STACK EMISSION MONITORING REPORT

GPIL/EMS/2017-18/3012

Date: 06.10.2017

M/s R.R. ISPAT

FOR THE MONTH OF **SEPTEMBER - 2017**

I. SAMPLING DETAILS :

Date of Sampling	06.09.2017
Date of Analysis	07.09.2017
Monitored by	Mr. Ugendra Verma & Feroz Khan
Analyzed by	Mr. Sandeep Dewangan

II. AMBIENT AIR MONITORING RESULTS

Parameter	Prescribed Limit As Per CECB µg/m³	Location			
		Billet Stock Yard	*Below H.T. Line*	*Near TLT Division*	*Near Office*
PM_{10}	100.00 µg/m³	39.2	35.2	27.1	24.3
$PM_{2.5}$	60.00 µg/m³	22.7	15.1	13.8	13.0
SO_2	80.00 µg/m³	4.9	5.1	4.9	5.0
NO_x	80.00 µg/m³	5.5	5.6	5.0	5.3

III. STACK EMISSION MONITORING RESULTS

S.N.	Monitoring Point	Date of Monitoring & Analysis	Prescribed Limit As Per CECB mg/Nm³	Measured Concentration in mg/Nm³
1.	Rolling Mill	06.09.2017	**50.00**	*22.8*
2.	Galvanizing Unit	06.09.2017	**50.00**	*25.0*

Chemist

Asst. Manager

Head of the Department
Environment Management System

Abbreviation: CECB-Chhattisgarh Environment Conservation Board; PM-Particulate Matter; AFBC- Air Fludiesed Bed Combustion;**Monitoring & Analysis Protocols :** PM-IS 11255 (Part-I) 1985:Reaff. 2003) SO_2- Indian Standard IS :5182 (Part 2), 2001: NOx- IS 5182 (Part VI) : 2006 1st 201 PM10 & PM2.5 -IS 5182 (Part 23) : 2006.

HIRA

GODAWARI POWER & ISPAT

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

WATER ANALYSIS REPORT

GPIL/EMS/2017-18/3013 Date: 06.10.2017

M/s R. R. ISPAT

FOR THE MONTH OF **SEPTEMBER - 2017**

A. SAMPLING DETAILS :

01	Sample collected from source	TREATED WATER (Galvanizing Unit)
02	Date of Collection	06.09.17
03	Date of Analysis	07.09.17 to 12.09.17
04	Sample collected by	Mr. Ugendra Verma (Asst. Chemist)
05	Analyzed by	Mr. Sandeep Dewangan (Sr. Chemist -EMS Lab)

B. ANALYSIS DETAILS :

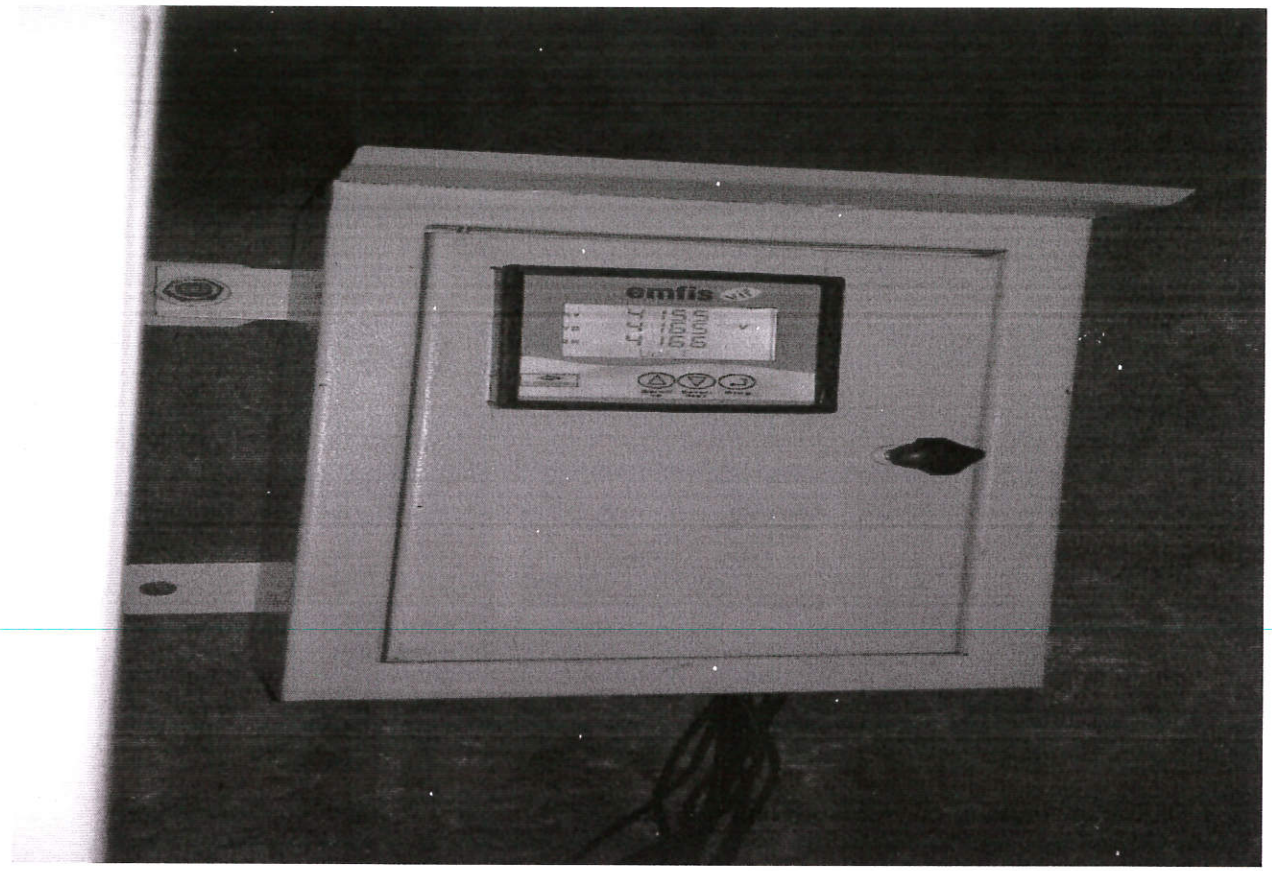
S. N.	Characteristics	Permissible Limits	Sample Results	Analysis Method
01	TEMPERATURE	Not more than 5 ºC to intake water	28.9	IS 3025: Part 09
02	pH	5.5-9.0	7.52	IS 3025: Part 11
03	TSS	100.0 mg/l	28.0	IS 3025: Part 17
04	COD	250.00	84.0	ASTM: D1252-06
05	BOD	30.00	13.0	IS 3025: Part 27
06	Oil & Grease	10.00	1.3	IS 3025: Part 39
TRACE METALS				
07	Iron (Fe)	3.0 mg/l	1.2	IS 3025: Part 53
08	Lead (Pb)	0.1 mg/l	BDL	IS 3025: Part 45

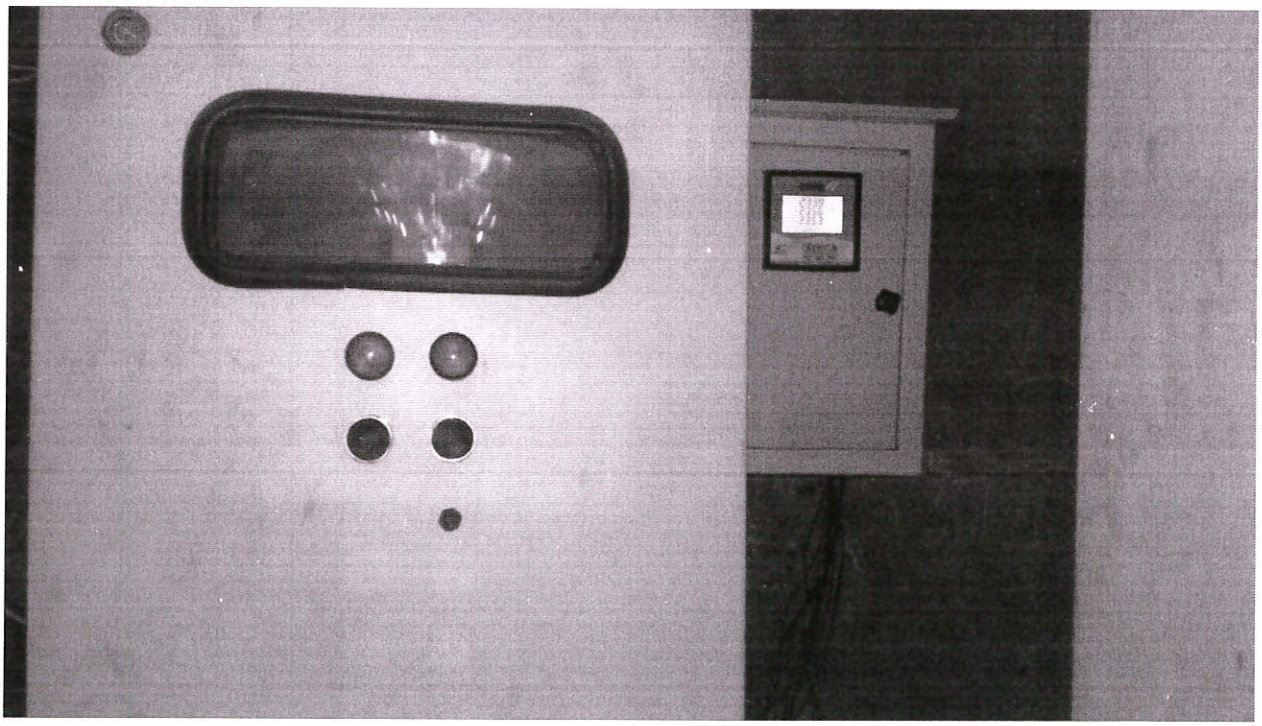
Sr.Chemist Asst. Manager Head of the Department (Environment Management System)

Abbreviation: ASTM- American Society for testing & Materials, APHA- American Public Health Association, IS - Indian Standard;

(Annexure- II)

PHOTOGRAPHS OF ELECTRIC METER





Annexure III

CSR Expenses of HIRA GROUP Companies (GPIL Siltara, HIRA Arcade-City Office & R.R.Ispat) for FY: 2017-18 (APR'17 TO SEPT'17)

(1)	(2)	(3)	(4)	(5)	(6)
S.No.	CSR project or activity identified.	Sector in which the Project is covered.	Projects or Programs (1) Local area or other (2) Specify the State and district where projects or programs was undertaken.	Amount spent on the projects or programs Sub-heads: (1) Direct expenditure on projects or programs. (2)Overheads: (In Lac.)	Amount spent: Direct or through implementing agency
1	Piyau hut & drinking water in Siltara, Tada & Mandhar in summer for 3 months & Manpower Engaged in Piyau Hut	Drinking Water	Gram Panchayat Tada, Siltara & Mandhar	3.950	Direct
2	Providing salary of 01 night guard & 02 teachers engaged in Govt. Primary & Middle School of village Mandhar & Siltara	Education	Gram Panchayat Siltara& Mandhar	0.525	Direct
3	Expenses incurred in manpower engaged for maintenance of Plantation & Garden in Janpad Office Dharsiwa & Dharsiwa Police Station under CSR	Environment Conservation	Dhasiwa Block	0.175	Horticulture Dept of GPIL
4	Expenses incurred in levelling of land for Plantation work at AKVN Land (4 Acre) , village Tada and CSIDC Land (60Acre), Siltara	Environment	Gram Panchayat Tada & Siltara	0.426	Horticulture Dept of GPIL
5	Expenses incurred in Labour payment engaged in plantation work at CSIDC Land (60Acre), Siltara & AKVN Land (4 Acre), Tada	Environment	Gram Panchayat Siltara	0.202	Direct
6	Expenses on Maintenance of Garden & Plantation at Swami Vivekanada International Airport, Raipur	Environment	Raipur City	0.361	By HIRA Power & Steel Ltd.
7	Transportation of bed material for filling patches in order to avoid slime on road in village Mandhar	Infrastructure	Gram Panchayat Mandhar	0.146	Direct
8	Scholorship provided to 103 poor students of Govt. Hr.Sec. School of village Mandhar for the session-2017	Education	Gram Panchayat Mandhar	0.890	Direct
9	Provided School Fee for 02 meritorious students of village-Siltara for the session-2017	Education	Gram Panchayat Siltara	0.300	Direct
10	Financial Aid provided to Aakanksha Lion School for Mentally Handicapped Children for smooth operation of school	Education	Raipur City	6.000	Direct
11	Expenses on Garden & Plantation of Tatibandh Chowk	Environment	Tatibandh Chowk, Raipur	1.456	BY R.R.ISPAT
12	Expenses on Plantation at Industial Area Siltara Chowk	Environment	Siltara	8.361	BY R.R.ISPAT

(1)	(2)	(3)	(4)	(5)	(6)
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13	Maintenance & other expenses on garden & Plantation at RKC Compound	Environment	Raipur City	1.516	BY R.R.ISPAT
14	Maintenance & other expenses on garden & Plantation at Railway Station	Environment	Raipur City	0.822	BY R.R.ISPAT
15	Development of Garden & Fountain in Telibandha (Manpower, Land escaping, Plantation etc.)	Environment	Telibandha Pond, Raipur	1.545	BY R.R.ISPAT
			GRAND TOTAL	**26.68**	

RADHWARI POWER & ISPAT LIMITED C.S.R. Department RAIPUR (C.G.)

22/12/17