

POINT WISE COMPLIANCE STATUS TO THE CONDITIONS STIPULATED IN THE ENVIRONMENTAL CLEARANCE ISSUED FOR EXPANSION OF STEEL PLANT OF REAL ISPAT AND POWER LIMITED.

Name of Plant	: M/s Real Ispat and Power Limited
Location of Plant	: Village-Borjhara, Tehsil & District-Raipur, Chhattisgarh
Environment Clearance	: 2145/SEIAA-CG/ EC/ Ind and RM/ Raipur/ 443 Dated: 07/08/2014
Compliance Period	: 1st April, 2023 to 30 th September, 2023

	EC Conditions	Compliance Status
	Specific Conditions	
1	<p>Project authority shall provide adequate facility for proper treatment of industrial effluent (if any) 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 same alternate arrangement shall be provided. Treated effluent shall be utilized either in process or for plantation purposes within plant premises only. Project authority shall make arrangement of suitable drains/pipe networks to ensure adequate flow for full utilization of treated effluent inside the premises. No effluent shall be discharged out of plant premises under any circumstances. Hence zero discharge condition outside the premises shall be maintained all the time. Project authority shall ensure the treated effluent quality within standard prescribed by Ministry of Environment & Forests, Government of India.</p> <p>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.</p>	<p>Complied.</p> <p>We have commissioned Effluent Treatment Plant for the treatment of industrial effluent and Online Continuous Effluent Quality Monitoring System has been implemented and connected to CPCB/CECB server.</p> <p>Sewage Treatment Plant has been installed for the treatment of domestic waste water as well as we have provided septic tank and soak pits also in the plant. Treated effluent is being used for plantation and dust suppression purpose. Zero discharge condition is being maintained.</p> <p>Closed cooling circuit has been constructed in all operational units.</p> <p>Details & Images of Operational STP & ETP Is enclosed as Annexure- I</p>
2	<p>Any liquid effluent what so ever generated from industrial activities shall not be discharged into the river or any surface water bodies under any circumstances, and it shall be reused wholly in the process/ plantation. All the industrial effluent generated shall be re-circulated/</p>	<p>Complied.</p> <p>Zero discharge condition is strictly maintained.</p> <p>Effluent Treatment Plant has been constructed within plant premises.</p> <p>Domestic waste water is being treated through</p>

	EC Conditions	Compliance Status
	reused after proper treatment. Project authority shall provide sewage treatment system of adequate capacity for treatment of domestic effluent generated. The untreated/treated domestic effluent shall not be discharge into the river or any surface water bodies. The treated domestic effluent shall be used for plantation purpose after proper disinfection. The concept of zero discharge shall be maintained all the time except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed	Sewage Treatment Plant. Treated waste water is being used in plantation and dust suppression purpose. Details & Images of Operational STO & ETP Is enclosed as Annexure-I
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.	Complied. Flow meter has been installed.
4	Closed water-cooling system shall be provided. Minimum water drawl for makeup purposes shall be ensured.	Complied. Closed water-cooling system has been adopted by plant premises. Treated water is utilized for other purposes like dust suppression, ash conditioning and in green belt development. .
5	No ground water shall be used. Total water requirement shall not exceed 395 KLD for proposed activity.	Complied. Total required water is being taken by CSIDC Ltd.
6	Project authority shall not utilize coal as a fuel for reheating furnace of rolling mill and induction furnaces. Only furnace oil / producer gas shall be used as fuel in reheating furnace of rolling mill.	Complied. We are not using coal as fuel. Induction furnaces are electricity operated. We are utilizing producer gas in rolling mill.
7	Project authority shall provide adequate air pollution control arrangements at all point and non-point sources. Wet scrubber 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 shall be installed in reheating furnace of rolling mill. Project authority shall install suitable & effective air pollution control equipment at all transfer points, junction points etc. also. All the conveying system, transfer points, junction points etc. shall be covered. Proper ventilation shall also be provided in rolling mill plant. The	Complied. We have already adopted adequate air pollution control technique. Suitable APC system has been installed at all points. All transfer and junction points area closed. The particulate matter emission is being maintained within the 50 mg/Nm ³ . Online Stack monitoring system (CEMS) is implemented and connected to CECB/CPCB - RTDMS server. CEMS generated data enclosed in Annexure -II

	EC Conditions	Compliance Status
	<p>emission of pollutants from any point source shall not exceed the following limit: Particulate Matter – 50 mg/Nm³.</p> <p>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. The height of other stack (s) shall not be less than 30 meters.</p>	
8	<p>The gaseous emissions from various processes 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. 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.</p>	Complied.
9	<p>Secondary fugitive emissions 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.</p> <p>Project authority shall maintain fugitive dust emissions to the minimum level in the areas of road transportation routes of raw material, product to ensure National Ambient Air Quality Standards prescribed including black topping/ asphaltting/ concreting and maintenance with requisite water sprinkling arrangements.</p>	<p>Complied.</p> <p>Following measures have been implemented for controlling the Secondary Fugitive emissions:</p> <ul style="list-style-type: none"> i. Internal roads are made pucca & a good housekeeping practice is being adopted. ii. Raw Material storage area is covered and stored on the pucca platform. iii. Water sprinklers, iv. Covered Conveyer belt, v. vacuum cleaning, manual cleaning. vi. Vehicle speed limits 20 km/hr to control fugitive emission inside plant premises. vii. Vehicle-washing system has been implemented within plant premises to minimize dust generation from transportation.
10	<p>All air pollution control systems shall be kept in good running conditions 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 of 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.</p>	<p>Complied.</p> <p>All air pollution control systems are in good running conditions and in case of failure or high emission, alarms and alert signals are activated immediately. Periodic maintenance is also being done to keep healthy condition of the PCS.</p>

	EC Conditions	Compliance Status		
11	<p>Regular monitoring of ground level concentration of SO₂, NO_x, PM₁₀ and PM_{2.5} 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 operation till necessary control measures are provided.</p> <p>The location of the monitoring stations and frequency of monitoring shall be decided in consultation with Chhattisgarh Environment Conservation Board Raipur. 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</p>	Noted & Complied		
12	<p>Project proponent shall install separate electric metering arrangements with time totalizer 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 supply system and shall remain tripped till the pollution control device/ devices are made functional again/ rectified to achieve the desired efficiency.</p>	<p>Complied.</p> <p>We have installed the Separate electric meters for the running of pollution control equipment's and in case of failure or high emission, Alarms and alert signals are activated immediately.</p>		
13	<p>Project authority shall utilize the fly ash bricks/blocks etc. in all construction activities.</p>	<p>Complied.</p> <p>Fly ash bricks/blocks/ fly ash-based products is being used for construction activities/repairing activities.</p>		
14	<p>Project authority shall take effective steps for safe disposal of solid wastes and sludge. Furnace slag shall be crushed and passed through magnetic separator to recover the metallic contents and the same shall be utilized as raw material in steel making. Non-metallic</p>	<p>Complied.</p> <p>We have taken effective steps towards safe disposal of solid wastes:</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Slag from Induction furnace</td> <td style="width: 50%;">Giving to nearby Slag Crushing unit.</td> </tr> </table>	Slag from Induction furnace	Giving to nearby Slag Crushing unit.
Slag from Induction furnace	Giving to nearby Slag Crushing unit.			

EC Conditions		Compliance Status					
	<p>contents shall be used in back filling within plant premises. End cutting from rolling mill, shall be used as raw material in own Induction Furnaces for steel making. 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 Tran boundary Movement) Rules, 2008.</p>	<table border="1"> <tr> <td>End Cutting from Rolling Mill</td> <td>Utilized as raw material in own induction furnaces</td> </tr> <tr> <td>Mill Scale from Rolling Mill</td> <td>Giving to nearby Ferro Alloys/ Pellet Plant.</td> </tr> </table>	End Cutting from Rolling Mill	Utilized as raw material in own induction furnaces	Mill Scale from Rolling Mill	Giving to nearby Ferro Alloys/ Pellet Plant.	<p>Authorization Under “Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2008 & Subsequent amendments” has been obtained from CECB. Reference letter No 6074/HSMD/HO/CECB/2021 Dt 29.11.2011 HW Authorization No-423/HO/HSMD/CECB/ Nava Raipur, Atalnagar. (Validity 5 Yrs) Annual return for the same is being submitted to board every year. Copy of Form IV is enclosed in Annexure -III</p>
End Cutting from Rolling Mill	Utilized as raw material in own induction furnaces						
Mill Scale from Rolling Mill	Giving to nearby Ferro Alloys/ Pellet Plant.						
15	<p>All the internal roads shall be asphalted / concreted on or before January 2011. Project authority shall adopt good housekeeping practices.</p>	<p>Complied. Internal road has been made pucca & good housekeeping practice is been adopted.</p>					
16	<p>Project proponent shall take proper action to control the noise pollution. Project proponent 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 employee working in the area of generator halls and other high noise areas. Leq of /noise levels from turbines 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 proponent shall take adequate measures for control of noise level below 85 dB (A) in the work environment. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including rotating them to non-noisy/ less noisy areas.</p>	<p>Complied. Noise level from operation of rolling mill is confined to working zones only. However main source of noise level in the plant are boilers and Turbines. These equipment's are equipped with noise enclosures. Regular maintenance i.e. lubricating/oiling of all moving equipment's is being done. We have also developed green belt within plant premises. Earplugs is being provided to worker engaged in noisy environment, if required. It is ensured that rotation of the workers who directly engaged in noisy environment is being done on regular basis. Periodically examined audiometric of employee and maintain the record.</p>					

	EC Conditions	Compliance Status
17	Project proponent shall provide appropriate arrangements to avoid air pollution, water pollution, noise pollution etc. during construction phase and during transportation of plants/ machineries/ equipment's/ construction materials etc. to the propose 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 also be ensured. The emission from vehicles engaged for transportation of plants/ machineries/ equipment's/ 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.	Complied. Construction work has been completed..
18	The construction of effluent treatment system and installation of air pollution control equipment's shall be taken up simultaneously with other civil/mechanical works of proposed unit. The 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.'	Complied. Effluent Treatment Plant has been constructed within plant premises Enclosed as Annexure –I
19	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in fuel yard, especially during summer season. 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, MoEF&CC, Govt. of India.	Complied. Proper Safety measures are followed as per guideline of Director General of Plant Safety. We are the member of National Safety Council and conducted regular training, mock drill practice and weekly analysis of safety measures regularly. Details safety measures are given in On Site Emergency Plan.
20	Disaster Management plan shall be	Complied.

	EC Conditions	Compliance Status
	prepared to meet any eventuality 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.	
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. Tree density of 1500-2000 trees per hectare (600 nos. of plants per acre) with local broad leaf species should be maintained. Adequate wide green belt shall be developed in the 2.023 ha (5.0 acres) land i.e. 53.80% of total land. Central Pollution Control Board guidelines shall be followed in planning and developing green belt and selection of species etc.	<p>Complied. We have developed green belt over an area of 22.60 Acre i.e 40% of total area, within and outside plant premises. Presently 23841 nos. of saplings within plant premises and 2460 nos. of saplings are alive outside plant premises. Regular plantation is being carried out during monsoon season each year.</p> <p>Third party plantation verification report already submitted. Annexure – IV</p>
22	Project proponent shall provide garland drains with appropriate check dams all along the fuel, dust / reject 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 material. Sedimentation pits shall be constructed at the corners of the garland drains. Project proponent shall provide adequate collection and treatment arrangement for proper management of storm water. The surface run-off shall be de-silted through a series of check dams and drains.	<p>Complied. Garland drains are constructed with appropriate check dams in raw material/ solid waste/ finish goods storage areas.</p> <p>All the raw material/ solid waste/ finish goods stores in a pucca platform.</p>
23	Project authority shall adopt rainwater-harvesting technique in the project area for recharge of ground water. The rainwater-harvesting technique shall be	<p>Complied. Rain water harvesting structure has been constructed within plant premises.</p>

	EC Conditions	Compliance Status
	incorporated right from the design stage of all structures. 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, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, 'Ministry of Environment & Forests, Government of India, Bhopal. Project authority shall submit permission from Central Ground Water Board for withdrawal of ground water before commissioning of the plant with expanded capacity.	Certified copy of RWH Report & Images of Rainwater structures, within plant premises is enclosed as Annexure-V
24	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and 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 has been completed.
25	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per prevailing Act/Rules.	Complied. Regularly being done of all employees of the plant as per Form-21 of Health & Safety Dept., Govt. of Chhattisgarh as well as General checkup, Eye Checkup, Audiometry Test, Bio Chemistry Test, ECG, Spirometry Test, Ultrasonography Test, Urine, Blood, X-Ray etc.
26	The project proponent shall also comply with all the environmental protection measures and safe guards recommended in the Environment Management Plan.	Complying.
27	Project proponent shall establish an	Complied.

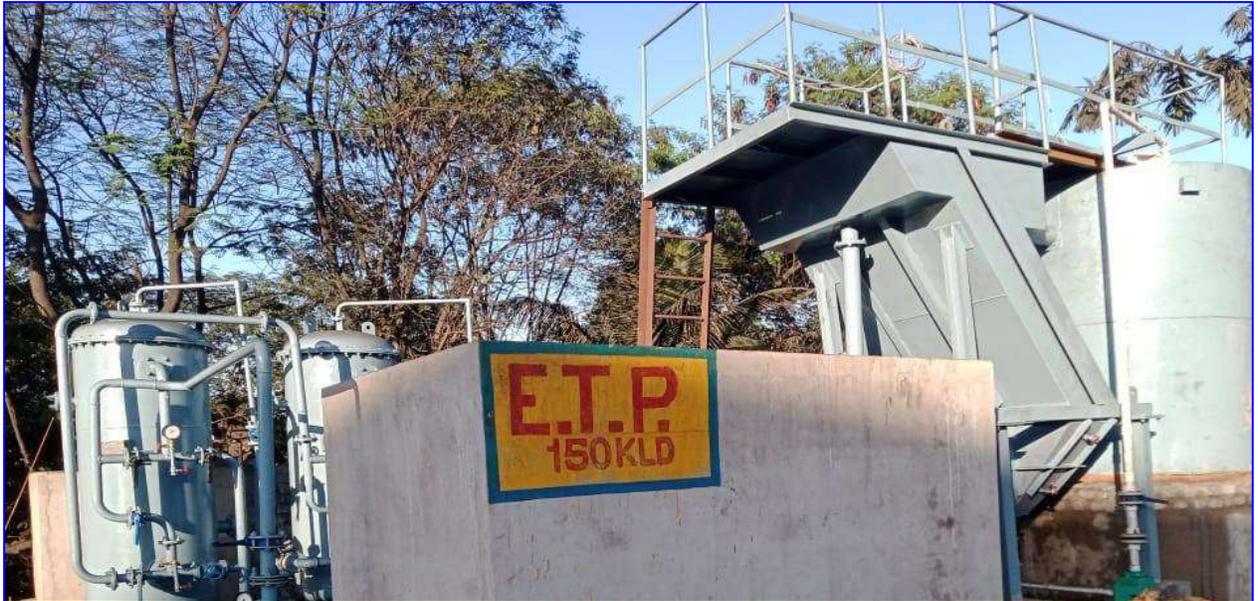
	EC Conditions	Compliance Status
	environmental management cell to carryout function relating to environmental management under the supervision of senior executive who shall directly report to the head of organization. A full-fledged laboratory with qualified technical/scientific staffs to monitor the influent, effluent, ground water, surface water, soil, stack emission and ambient air quality etc. shall be provided.	Environment Management Cell has been established to carryout function relating to environmental management under the supervision of senior executive who's reporting to the head of organization. Unit Head/Director ↑ Head – EHS (Corporate) Environment Officers
28	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 & Agreed
29	SEIAA, Chhattisgarh reserves the right to amend/cancel any of the conditions and add new conditions and make further stringent the emission/effluent limit as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.	Agreed.
30	The Project proponent 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 and copies of clearance letter are available with the Chhattisgarh Environment Conservation Board and may also seen at Website of the Ministry of Environment and Forests at www.envfor.nic.in and website of SEIAA, Chhattisgarh at www.seiaacg.org .	Complied. Advertisement regarding environmental clearance was published in two newspaper as Hindi in Amrit Sandesh and English in Central Chronicle on dated 23/08/2014 . Copy of the same is enclosed as Annexure-VI .
31	Half yearly report on the status of implementation of the stipulated	Complied. Half yearly report on the status of implementation

	EC Conditions	Compliance Status
	conditions and environment safeguards shall be submitted to the 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.	of the stipulated conditions and environment safeguards has been submitted to the CECB, Raipur, RO-CECB, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests ack. Annexure – VII
32	Regional Office of the Ministry of Environment and Forests at Bhopal shall monitor the implementation of the stipulated conditions. A complete set of documents including 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.	Complied.
33	The project authorities shall inform the Regional Office as well as the SEIAA, Chhattisgarh regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of Commissioning of plant with expanded capacity.	Complied. Financial closure and final approval date of Induction furnace 29/20/2020. Financial closure and final approval date of rolling mill 31/03/2019
34	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.	Agreed.
35	In case of any deviation or alteration in the 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 and 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 and Forests, Government of India/	Agreed & Noted.

	EC Conditions	Compliance Status
	SEIAA, Chhattisgarh.	
36	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	Agreed.
37	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) act, 1986 and rules there under, Hazardous Wastes (Management, Handling and Trans Boundary movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.	Noted.
38	Chhattisgarh Environment Conservation Board shall display a copy of the clearance letter at the Regional Office, District Trade and Industries Centre and Collector's Office / Tehsildar's Office for 30 days.	It's under Board jurisdiction.
39	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.	Agreed & Noted.

Annexure-I

Photograph of Effluent Treatment Plant:



Photograph of Sewage Treatment Plant:



EQMS Data

Continuous Effluent Monitoring Data for the Month April - 2023					Continuous Effluent Monitoring Data for the Month May- 2023				
Date	Flow Rate (m ³ /hr)	pH (pH)	Temperature (°C)	TSS (mg/L)	Date	Flow Rate (m ³ /hr)	pH (pH)	Temperature (°C)	TSS (mg/L)
01-04-2023	5.27	8.12	25.44	25.54	01-05-2023	5.69	8.13	24.47	26.98
02-04-2023	7.03	8.05	26.36	26.49	02-05-2023	4.94	8.14	25.6	27.37
03-04-2023	6.49	7.93	26.83	26.44	03-05-2023	6.03	8.13	25.19	27.67
04-04-2023	6.84	7.82	28.92	26.04	04-05-2023	9.03	8.14	27.06	27.7
05-04-2023	7.97	7.69	28.89	24.52	05-05-2023	8.52	8.13	28.69	28.14
06-04-2023	6.12	7.78	27.98	26.83	06-05-2023	7.34	8.13	30.03	28.22
07-04-2023	6.6	8.12	28.85	32.62	07-05-2023	7.71	8.08	30.08	27.79
08-04-2023	5.36	8.11	27.43	30.76	08-05-2023	7.03	7.57	31.15	26.36
09-04-2023	4.24	8.1	27.74	22.69	09-05-2023	6.08	7.13	31.37	25.72
10-04-2023	5.3	8.11	28.92	29.02	10-05-2023	3.48	7.24	30.74	24.36
11-04-2023	5.64	8.11	29.87	32.98	11-05-2023	6.56	6.55	30.46	26.19
12-04-2023	5.18	8.1	30.43	24.24	12-05-2023	4.42	8.13	30.5	33.55
13-04-2023	6.02	8.09	31.02	26.9	13-05-2023	5.24	8.14	30.69	31.37
14-04-2023	5.97	8.07	32.48	34.07	14-05-2023	4.42	8.14	30.85	32.48
15-04-2023	5.48	8.08	32.26	32.05	15-05-2023	6.28	8.13	31.63	31.48
16-04-2023	3.49	8.1	31.84	30.14	16-05-2023	3	8.23	33.14	31.27
17-04-2023	4.11	8.11	32	31.95	17-05-2023	4.82	8.33	33.21	25.92
18-04-2023	5.55	8.11	32.68	28.29	18-05-2023	6.94	8.34	33.27	27.94
19-04-2023	5.41	8.12	33.19	22.69	19-05-2023	6.22	8.01	32.84	32.29
20-04-2023	4.77	8.12	32.2	22.69	20-05-2023	6.36	7.72	31.77	36.88
21-04-2023	3.94	8.12	29.6	22.69	21-05-2023	5.35	7.71	31.2	38.49
22-04-2023	7.07	8.12	28.92	26.87	22-05-2023	5.44	7.71	31.89	37.41
23-04-2023	7.17	8.11	27.01	32.41	23-05-2023	5.08	7.71	31.78	35.93
24-04-2023	5.12	8.11	27.26	27.34	24-05-2023	5.81	7.72	33.04	24.66
25-04-2023	6.82	8.12	27.91	24.12	25-05-2023	5.07	7.72	33.06	28.68
26-04-2023	6.29	8.12	28.13	23.81	26-05-2023	4.55	7.72	32.22	29.84
27-04-2023	8.39	8.12	28.59	23.39	27-05-2023	5.7	7.72	32.33	30.72
28-04-2023	7.38	8.12	27.85	24.21	28-05-2023	4.84	6.7	30.68	30.07
29-04-2023	8.03	8.12	27.59	26.4	29-05-2023	4.25	6.4	31.8	30.56
30-04-2023	4.74	8.13	24.69	26.63	30-05-2023	4.38	8.01	32.85	25.11
					31-05-2023	3.9	8.02	33.17	24.49

Continuous Effluent Monitoring Data for the Month June- 2023					Continuous Effluent Monitoring Data for the Month July- 2023				
Date	Flow Rate (m ³ /hr)	pH (pH)	Temperature (°C)	TSS (mg/L)	Date	Flow Rate (m ³ /hr)	pH (pH)	Temperature (°C)	TSS (mg/L)
01-06-2023	6.05	8.02	32.35	26.49	01-07-2023	5.73	7.62	29.88	24.92
02-06-2023	5.35	8.02	33.2	26.67	02-07-2023	5.41	7.81	30.32	22.69
03-06-2023	3.75	8.02	32.73	25.29	03-07-2023	4.58	7.64	30.8	22.69
04-06-2023	6.31	7.22	33.45	27.11	04-07-2023	4.07	7.75	30.86	22.69
05-06-2023	5.07	6.93	32.72	32.73	05-07-2023	5.57	7.61	29.19	22.69
06-06-2023	6.27	8.09	32.7	38.58	06-07-2023	3.07	7.68	28.53	22.69
07-06-2023	5.98	8.09	33.82	37.89	07-07-2023	3.36	7.67	27.36	22.69
08-06-2023	5.6	8.09	33.25	40.37	08-07-2023	2.71	7.65	27.03	22.69
09-06-2023	4.98	8.09	33.31	38.84	09-07-2023	4.86	7.72	27.73	22.69
10-06-2023	5.32	8.1	33.78	40.79	10-07-2023	3.03	7.83	28.44	22.69
11-06-2023	3.22	8.09	33.84	23.72	11-07-2023	3.62	7.65	28.12	22.69
12-06-2023	4.95	8.1	34.21	22.69	12-07-2023	2.26	7.71	27.97	22.69
13-06-2023	2.88	8.11	33.82	22.69	13-07-2023	4.55	7.76	28.3	22.69
14-06-2023	0.87	8.11	33.18	22.69	14-07-2023	4.64	7.77	29.4	22.69
15-06-2023	3.87	8.11	32.64	22.69	15-07-2023	3.74	7.78	28.45	22.69
16-06-2023	4.79	8.12	34.55	22.69	16-07-2023	3.13	7.93	27.56	22.69
17-06-2023	4.54	7.06	35.76	22.69	17-07-2023	3.67	8.69	26.92	22.69
18-06-2023	3.64	6.1	36.15	22.69	18-07-2023	3.22	8.49	27.45	29.55
19-06-2023	5.21	7.7	36.09	22.69	19-07-2023	3.18	7.27	27.6	39.02
20-06-2023	4.14	8.71	35.85	22.69	20-07-2023	4.89	7.69	28.76	29.42
21-06-2023	4.62	8.34	33.22	22.69	21-07-2023	1.1	7.67	27.95	27.55
22-06-2023	5.38	8.48	30.71	22.69	22-07-2023	0.23	7.76	27.6	22.69
23-06-2023	5.76	8.71	29.54	22.69	23-07-2023	0.17	7.86	27.62	22.69
24-06-2023	4.51	8.31	29.82	27.88	24-07-2023	1.6	7.74	28.59	22.69
25-06-2023	4.16	7.68	28.45	29.84	25-07-2023	2.78	7.77	29.57	27.8
26-06-2023	3.11	7.6	26.84	23.87	26-07-2023	3.33	7.73	28.91	36.67
27-06-2023	2.72	7.78	25.98	23.46	27-07-2023	4.03	7.74	28.78	31.49
28-06-2023	0.56	7.61	26.77	23.37	28-07-2023	5.22	7.77	27.88	22.69
29-06-2023	3.63	7.62	28.28	23.34	29-07-2023	5.17	7.64	27.98	22.69
30-06-2023	7.28	7.62	29.04	23.34	30-07-2023	4.76	7.79	28.47	22.69
					31-07-2023	5.73	7.62	29.88	24.92

Continuous Effluent Monitoring Data for the Month August 2023					Continuous Effluent Monitoring Data for the Month September 2023				
Date	Flow Rate (m ³ /hr)	pH (pH)	Temperature (°C)	TSS (mg/L)	Date	Flow Rate (m ³ /hr)	pH (pH)	Temperature (°C)	TSS (mg/L)
01-08-2023	4.51	7.73	27.98	22.13	01-09-2023	3.29	7.89	29.61	17.53
02-08-2023	4.55	7.71	26.7	19.87	02-09-2023	3.39	7.85	29.86	17.53
03-08-2023	4.32	7.96	25.4	19.48	03-09-2023	3.43	7.98	27.38	17.53
04-08-2023	4.54	6.74	25.25	20.83	04-09-2023	3.74	8.1	26.64	17.53
05-08-2023	4.49	6.92	27.48	21.96	05-09-2023	2.93	8.16	26.59	17.53
06-08-2023	3.32	6.88	27.46	16.29	06-09-2023	2.85	8.07	27.63	19.36
07-08-2023	3.32	6.84	27.68	16.29	07-09-2023	2.9	8	26.57	21.72
08-08-2023	4.11	6.84	27.88	16.29	08-09-2023	2.94	7.92	26.85	17.53
09-08-2023	4.07	6.9	27.66	16.29	09-09-2023	5.5	8.03	27.23	19.12
10-08-2023	3.44	7.62	28.06	20.29	10-09-2023	4.52	8.02	27.42	20.28
11-08-2023	4.18	8.15	29.05	26.78	11-09-2023	1.33	8.04	27.64	20.28
12-08-2023	4.81	8.19	29.43	24.38	12-09-2023	0.11	8.06	27.78	20.28
13-08-2023	4.21	8.25	29.31	25.86	13-09-2023	3.45	8.14	27.2	20.28
14-08-2023	3.8	8.23	28.68	16.29	14-09-2023	5.42	8.08	26.46	20.28
15-08-2023	4.23	8.13	28.69	16.29	15-09-2023	7.52	8.05	26.18	20.68
16-08-2023	4.15	8.1	29.02	18.44	16-09-2023	5.13	7.08	26.84	18.39
17-08-2023	3.61	7.93	28.48	22.38	17-09-2023	5.4	7.38	27.45	21.33
18-08-2023	3.47	7.84	27.27	22.29	18-09-2023	4.11	7.68	28.11	20.54
19-08-2023	3.16	7.77	27.05	16.29	19-09-2023	3.79	7.9	28.45	19.8
20-08-2023	2.82	7.7	26.54	19.67	20-09-2023	5.02	7.88	28.46	20.04
21-08-2023	2.27	7.63	26.94	24.67	21-09-2023	8.02	7.87	27.02	22.07
22-08-2023	2.03	7.57	28.08	24.67	22-09-2023	8.73	7.94	25.8	21.72
23-08-2023	3.33	7.59	28.41	23.13	23-09-2023	9.12	8.07	26.31	21.25
24-08-2023	3.42	7.33	27.41	23.2	24-09-2023	7.39	8.28	27.04	22.61
25-08-2023	3.37	7.08	27.92	23.32	25-09-2023	7.46	8.34	26.63	24.81
26-08-2023	3	8.16	28.24	18.22	26-09-2023	5.12	8.33	26.47	26.47
27-08-2023	3.43	8.18	28.49	17.53	27-09-2023	7.04	7.95	27.34	23.64
28-08-2023	3.52	8.05	28.26	17.53	28-09-2023	7.05	7.48	28.13	22.52
29-08-2023	2.98	8.14	28.11	17.53	29-09-2023	7.21	7.55	27.77	20.4
30-08-2023	2.95	8.14	27.96	20.31	30-09-2023	7.04	7.89	27.18	21.12
31-08-2023	3.43	7.93	28.75	22.23	01-09-2023	3.29	7.89	29.61	17.53



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RIPL/ENV/CECB/HW/2023-24/108

Date: 12/04/2023

To,
The Regional Officer
Chhattisgarh Environment Conservation Board
Commercial Complex, Chhattisgarh Housing Board Colony,
Kabir Nagar, Raipur, Chhattisgarh.

Sub: Submission of Hazardous Waste annual return (Form-IV) for FY 2022-23 reg.

Respected Sir,

With reference to above subject, we are submitting herewith Hazardous Waste Annual return (Form-IV) for FY 2022-23 under Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.

This is for your kind information and record.

Yours Faithfully,
For, Real Ispat & Power Limited

Authorized Signatory



Encl: Form-IV.

C.C.: The Member Secretary, Chhattisgarh Environment Conservation Board, Payavash Bhawan, Sector-19, Nava Raipur, Atal Nagar,

FORM 4

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April to March]

PERIOD : FROM 01.04.2022 TO 31.03.2023

1. Name and address of facility : REAL ISPAT & POWER LIMITED
Urla – bendri road, Village – Borjhara, Raipur (C.G.)
2. Authorization No. and Date of issue : No. 6074 /HSMD/HO/CECB/2021 Raipur, Date 29/11/2021.
3. Name of the authorized person and full address with telephone, fax number and e-mail : Mr. Shiv Kumar Yadav
Urla- bendri road, Vill. – Borjhara, Raipur (C.G.) Phone -0771-4224111, Fax: 07714224009, E-mail realispot@realispot.com
4. Production during the year (product wise), wherever applicable

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise
 1. Category: 5.1 (Used/ Spent Oil) : 1710 Ltrs.
 2. Category: 35.1 (Tarry residue) : Nil
 3. Category: 35.2 (Spent ion exchange resin containing toxic metals) : Nil
 4. Category: 35.3 (Chemical Sludge from waste water treatment) : Nil
 5. Category: 12.2 (Spent acid and alkali) : Nil
 6. Category: 6.2 (Zinc fines or dust or ash skimmings in dispersible form) : 5.0 Tons
 7. Category: 33.1 (Empty barrels/containers/liners contaminated with hazardous chemicals /wastes). : Nil
 8. Category: 33.2 (Contaminated cotton rags or other cleaning materials) : Nil
 9. Category: 5.2 Waste or residue containing oil : Nil
2. Quantity dispatched
 - (i) To disposal facility: a. To recycler - NA
 - (ii) To recycler or co-processors or pre-processor: To recycler - NA
Category: 6.2 (Zinc fines or dust or ash skimmings in dispersible form) :
Category: 5.1 (Used/ Spent Oil):
 - (iii) Others
3. Quantity utilized in-house, if any – : 1530 Ltrs. (In lubrication)
4. Quantity in storage at the end of the year – : 180 Ltrs.

Part B. To be filled by Treatment, storage and disposal facility operators

1. Total quantity received	-	N.A.
2. Quantity in stock at the beginning of the year	-	N.A.
3. Quantity treated	-	N.A.
4. Quantity disposed in landfills as such and after treatment	-	N.A.
5. Quantity incinerated (if applicable)	-	N.A.
6. Quantity processed other than specified above	-	N.A.
7. Quantity in storage at the end of the year	-	N.A.

Part C. To be filled by recycler or co-processors or other users

1. Quantity of waste received during the year	-	N.A.
(i) Domestic sources		
(ii) imported (if applicable)		
2. Quantity in stock at the beginning of the year	-	N.A.
3. Quantity recycled or co processed or used	-	N.A.
4. Quantity of products dispatched (wherever applicable)	-	N.A.
5. Quantity of waste generated	-	N.A.
6. Quantity of waste disposed	-	N.A.
7. Quantity re-exported (wherever applicable)	-	N.A.
8. Quantity in storage at the end of the year	-	N.A.

Date :12.04.2023

Place:Raipur (C.G.)


Signature of the Occupier or
Operator of the disposal facility



FORM 3

[See rules 6(5), 13(7), 14(6), 16(5) and 20 (1)]

FORMAT FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES

Period: January to March, 2023

- Name and address of the facility : M/s. REAL ISPAT & POWER LTD.
Urla – Bendri Road, Vill. – Borjhara,
Distt.- Raipur (C.G.)
- Date of issuance of authorization and its reference number : 6074/HSMD/CECB/2021 Naya Raipur, Dtd. 29/11/2021
- Description of hazardous and other wastes handled (Generated or Received)

Date	Type of waste with category As per Schedules I, II and III of these rules	Total quantity (Metric Tonnes)	Method of Storage	Destined to or received from
01-01-2023 to 31-03-2023	Used/Spent Oil	455 Ltr.	Stored in MS Drum under pucca shed	Used as a lubricant
	Tarry residue	Nil	-	No Generation
	Spent ion exchange resin containing toxic metal	Nil	-	No Generation
	Chemical Sludge from waste water treatment	Nil	-	No Generation
	Spent acid and alkali	Nil	-	No Generation
	Zinc fines or dust or ash skimmings in dispersible form	Nil	5.0	Kept under covered shed
	Empty barrels/ containers/ liners contaminated with hazardous chemical/ wastes	Nil	-	No Generation
	Contaminated cotton rags or other cleaning materials	Nil	-	No Generation
	Waste or residue containing oil	Nil	-	No Generation

* Fill up above table separately for indigenous and imported waste.

- Date wise description of management of hazardous and other wastes including products sent and to whom in case of recyclers or pre-processor or utilizer: NA
- Date of environmental monitoring (as per authorization or guidelines of Central Pollution Control Board): Online Monitoring system has already been installed and connected to CECB/CPCB server.

Date: 01/04/2023

Place-Raipur (C.G.)

(Signature of occupier)



FORM 3

[See rules 6(5), 13(7), 14(6), 16(5) and 20 (1)]

FORMAT FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES

Period: October to December, 2022

- Name and address of the facility : **M/s. REAL ISPAT & POWER LTD.**
 Urla – Bendri Road, Vill. – Borjhara,
 Distt.- Raipur (C.G.)
- Date of issuance of authorization and its reference number
6074/HSMD/CECB/2021 Naya Raipur, Dtd. 29/11/2021
- Description of hazardous and other wastes handled (Generated or Received)

Date	Type of waste with category As per Schedules I, II and III of these rules	Total quantity (Metric Tonnes)	Method of Storage	Destined to or received from
01-10-2022 to 31-12-2022	Used/Spent Oil	410 Ltr.	Stored in MS Drum under pucca shed	Used as a lubricant
	Tarry residue	Nil	-	No Generation
	Spent ion exchange resin containing toxic metal	Nil	-	No Generation
	Chemical Sludge from waste water treatment	Nil	-	No Generation
	Spent acid and alkali	Nil	-	No Generation
	Zinc fines or dust or ash skimmings in dispersible form	Nil	-	No Generation
	Empty barrels/ containers/ liners contaminated with hazardous chemical/ wastes	Nil	-	No Generation
	Contaminated cotton rags or other cleaning materials	Nil	-	No Generation
	Waste or residue containing oil	Nil	-	No Generation

* Fill up above table separately for indigenous and imported waste.

- Date wise description of management of hazardous and other wastes including products sent and to whom in case of recyclers or pre-processor or utilizer:
- Date of environmental monitoring (as per authorization or guidelines of Central Pollution Control Board): **NA**
Online Monitoring system has already been installed and connected to CECB/CPCB server.

Date: 01/01/2023

Place-Raipur (C.G.)

(Signature of occupier)



FORM 3

[See rules 6(5), 13(7), 14(6), 16(5) and 20 (1)]

FORMAT FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES

Period: July to September, 2022

- Name and address of the facility : M/s. REAL ISPAT & POWER LTD.
Urla – Bendri Road, Vill. – Borjhara,
Distt.- Raipur (C.G.)
- Date of issuance of authorization and its reference number : 6074/HSMD/CECB/2021 Naya Raipur, Dtd. 29/11/2021
- Description of hazardous and other wastes handled (Generated or Received)

Date	Type of waste with category As per Schedules I, II and III of these rules	Total quantity (Metric Tonnes)	Method of Storage	Destined to or received from
01-07-2022 to 30-09-2022	Used/Spent Oil	415 Ltr.	Stored in MS Drum under pucca shed	Used as a lubricant
	Tarry residue	Nil	-	No Generation
	Spent ion exchange resin containing toxic metal	Nil	-	No Generation
	Chemical Sludge from waste water treatment	Nil	-	No Generation
	Spent acid and alkali	Nil	-	No Generation
	Zinc fines or dust or ash skimmings in dispersible form	Nil	-	No Generation
	Empty barrels/ containers/ liners contaminated with hazardous chemical/ wastes	Nil	-	No Generation
	Contaminated cotton rags or other cleaning materials	Nil	-	No Generation
	Waste or residue containing oil	Nil	-	No Generation

* Fill up above table separately for indigenous and imported waste.

- Date wise description of management of hazardous and other wastes including products sent and to whom in case of recyclers or pre-processor or utilizer: NA
- Date of environmental monitoring (as per authorization or guidelines of Central Pollution Control Board): Online Monitoring system has already been installed and connected to CECB/CPCB server.

Date: 01/10/2022

Place-Raipur (C.G.)

(Signature of occupier)



FORM 3

[See rules 6(5), 13(7), 14(6), 16(5) and 20 (1)]

FORMAT FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES

Period: April to June, 2022

- Name and address of the facility : M/s. REAL ISPAT & POWER LTD.
Urla – Bendri Road, Vill. – Borjhara,
Distt.- Raipur (C.G.)
- Date of issuance of authorization and its reference number :
6074/HSMD/CECB/2021 Naya Raipur, Dtd. 29/11/2021
- Description of hazardous and other wastes handled (Generated or Received)

Date	Type of waste with category As per Schedules I, II and III of these rules	Total quantity (Metric Tonnes)	Method of Storage	Destined to or received from
01-04-2022 to 30-06-2022	Used/Spent Oil	430 Ltr.	Stored in MS Drum under pucca shed	Used as a lubricant
	Tarry residue	Nil	-	No Generation
	Spent ion exchange resin containing toxic metal	Nil	-	No Generation
	Chemical Sludge from waste water treatment	Nil	-	No Generation
	Spent acid and alkali	Nil	-	No Generation
	Zinc fines or dust or ash skimmings in dispersible form	Nil	-	No Generation
	Empty barrels/ containers/ liners contaminated with hazardous chemical/ wastes	Nil	-	No Generation
	Contaminated cotton rags or other cleaning materials	Nil	-	No Generation
	Waste or residue containing oil	Nil	-	No Generation

* Fill up above table separately for indigenous and imported waste.

- Date wise description of management of hazardous and other wastes including products sent and to whom in case of recyclers or pre-processor or utilizer:
- Date of environmental monitoring (as per authorization or guidelines of Central Pollution Control Board): **NA**
Online Monitoring system has already been installed and connected to CECB/CPCB server.

Date: 01/07/2022

Place-Raipur (C.G.)

(Signature of occupier)



Mob. 9893025662

C.M. SHAKEEL

Consultant Environment and Forest

C/76, H.I.G. Shailendra Nagar, Raipur – 492001

Ref. No. :35/RPR/20

Date : 30/12/2020

PHYSICAL VERIFICATION OF PLANTATION

Name of Industry	Year of Verification by the third party	Name of the third party who did the verification	Number of trees as per verification	Total area of the plantation as per verification
M/s Real Ispat & Power Limited , Vill-Borjhara, Urla-Bendri Road, Raipur (C.G.)	2020	C.M. Shakeel, Retd. Dy. C.F. (S.F.S.) Consultant Forest & Environment , Raipur	23841	22.60 Acre


C.M. SHAKEEL
Consultant
Forests & Environment
Raipur (C.G.)

C.M. Shakeel
Retd. Dy. C.F. (S.F.S.)
Consultant Forest & Environment,
Raipur (C.G.)

DETAILS OF TREE PLANTS IN FACTORY PREMISES OF

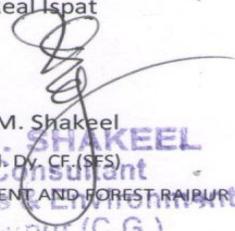
REAL ISPAT & POWER LTD.

Vill. Borjhara, Urla-Bendri Road, RAIPUR (CG)

01	Total area of Premises	:	56.50 Acres
02	Total Area of the Factory to be covered by Plants	:	22.60 Acres
03	Total Area covered by Plants (in %)	:	40%
04	Total No. of Plants Planted so far	:	25,125
05	Total No. of Plants Casualty	:	1,284
06	Total No. of living Plants	:	23,841

S. N	Name of Plant	No. of Plant as on 2018	No. of Plant as on 2020	Total No. of Plant	Average Height
1	BADAM	1753	200	1953	10-15 FEET
2	SISSOO	911	1300	2211	8-15 FEET
3	KADAMB	495	450	945	10-15 FEET
4	NEEM	964	1250	2214	8-15 FEET
5	VENDIN	63		63	8-15 FEET
6	TEAK	144		144	8-15 FEET
7	KACHNAR	158		158	8-15 FEET
8	NEELGIRI	303		303	8-15 FEET
9	AUNLA	129	600	729	8-15 FEET
10	KARANJ	1167	420	1587	8-15 FEET
11	ASHOK	695		695	8-15 FEET
12	MANGO	227	400	627	8-15 FEET
13	KATHAL	216	10	226	8-15 FEET
14	AMBRA	89		89	8-15 FEET
15	BEL	45	100	145	8-15 FEET
16	BARGAD	11	5	16	8-15 FEET
17	BOTTLE PALM	56		56	8-15 FEET
18	CHHATIM	347		347	8-15 FEET
19	GULMOHAR	2525	1570	4095	12-15 FEET
20	KAHUWA	903		903	8-15 FEET
21	JAMUN	395	1815	2210	8-15 FEET
22	MOULSHREE	40		40	8-15 FEET
23	PARKIA	159		159	8-15 FEET
24	PIPAL	38	5	43	8-15 FEET
25	ARIKAPALM	23		23	8-15 FEET
26	COCONUT	56		56	12-15 FEET
27	BAMBOO	532		532	15-20 FEET
28	PAKAR	187		187	8-15 FEET
29	CASSIA	72		72	12-15 FEET
30	AMALTAAS		50	50	8-15 FEET
31	ARKESIYA		370	370	8-15 FEET
32	PELTAFORM		440	440	8-15 FEET
33	KESIYA SAMIYA		140	140	8-15 FEET
34	OTHERS	2013		2013	8-15 FEET
	TOTAL	14716	9125	23841	

Garden plants have also been planted, Tree Plantation is well spread over the premises Avenue Plantation of 4160 trees have been planted from Urla-Bendri Road to Real Ispat plant gate


C.M. SHAKEEL
 Rtd. Dy. CE (SES)
 Consultant
 CONSULTANT ENVIRONMENT AND FOREST RAIPUR
 Raipur (C.G.)



Mob. 9893025662

C.M. SHAKEEL

Consultant Environment and Forest

C/76, H.I.G. Shailendra Nagar, Raipur – 492001

Ref. No. :35/RPR/20

Date : 30/12/2020

CERTIFICATE

This is to certify that M/s Real Ispat & Power Ltd, Village – Borjhara, Urla-Bendri Road, Distt- Raipur (C.G.) is spread over in area around 56.50 acres has planted around 23,841 No. of living tree of different species like Badam, Karanj, Neem, Gulmohar, Shisham etc. in and around the plant premises. It is around 40% of total land area covered with tree plant to fulfill the environmental norms.


C.M. SHAKEEL
Consultant
Forests & Environment
Raipur (C.G.)

(C.M. Shakeel)
Rtd Dy. C.F. (SFS)
Raipur (C.G.)
Consultant Env. & Forest

Annexure-V

RAIN WATER HARVESTING AT RIPL

Calculation of Rain Water Harvesting:

Calculation of total runoff:

Particulars	Area (m ²)	Coefficient factor	Avg. rain fall (M)	Total runoff (m ³)
Constructed Area	74500.00	0.85	1.05	66491.25
Road and Paved Area	4500.00	0.70	1.05	3307.50
Greenery Area	75651.00	0.20	1.05	15886.71
Open Area	74081.00	0.10	1.05	7778.51
Total Area	228732.00	-	-	93463.97

Considering average rainfall of 1.05 m total runoff available within premises is about 93463.97 m³/year as per guidelines of CGWA about 90% of runoff is suitable to recharge. Hence rechargeable quantum of rain water is estimated to the tune of 84117.57 m³/year.

Calculation of Nos. of recharge structure required:

Particulars	Area (m ²)	Coefficient factor	Max Rainfall (m/hr)	Volume (m ³)
Constructed Area	74500.00	0.85	0.05	3166.25
Road and Paved Area	4500.00	0.70	0.05	157.50
Greenery Area	75651.00	0.20	0.05	756.51
Open Area	74081.00	0.10	0.05	370.41
Total Area	228732.00	-	-	4450.67

Considering maximum rainfall of 0.05 m/hr total volume of precipitation available within premises is about 4450.67 m³/hour. Considering retention time of recharge structure about 15 minutes, total volume comes to 1112.67 m³/15 min. Based on this we have constructed 10 nos. of recharge structures with bed radius of 2.50 meter and depth of 8 meter each.

Precipitation gets our premises is completely recharged through well developed drain system and recharging pits.

Photographs of Rain Water Harvesting Structures.











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RIPL/ENV/CECB/22-23/ 114

Date: 12/05/2023

To,

The Scientist "D"

Integrated Regional Office,
MOEF&CC, Aranya Bhawan,
North-Block, Sector-19, Naya Raipur, Atal Nagar,
Raipur, District- Raipur (C.G.) – 492002
Email: iro.raipur-mefcc@gov.in

Sub: Submission of Six-Monthly Environmental Compliance report for the period of **October, 2022 to March, 2023** M/s RIPL plant at village- Borjhara, Tehsil & District-Raipur, Chhattisgarh-Reg.

Ref: Environmental Clearance issued by SEIAA, Chhattisgarh vide file number 2145/SEIAA-CG/EC/Ind. and RM/Raipur/443 dated 07/08/2014.

Respected Sir,

We are herewith submitting six-monthly environment clearance compliance along with monitoring data for the period of **October, 2022 to March, 2023** with respect to **M/s Real Ispat and Power Private Limited** at village- Borjhara, Urla, Tehsil & District- Raipur (C.G.)

This is for your information please.

Thanking you,

Yours faithfully,

For, Real Ispat and Power Limited

Dr. Sunil Kushwaha
Head – EHS

1. The Member Secretary, Chhattisgarh Environment Conservation Board Paryavas Bhavan, North Block Sector-19, Atal Nagar Dist.- Raipur (C.G.).
2. The Regional Officer, Chhattisgarh Environment Conservation Board, Commercial Complex, Kabir Nagar, Dist- Raipur Chhattisgarh.
3. Uploaded on Parivesh Portal



EI- 43 /Raipur/14

Date: - 6/12/14

CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Commercial Complex, Chhattisgarh Housing Board Colony,
Kabir Nagar, Raipur (C.G.)

No. ⁵⁶³⁷ ITS/CECB/2014
To,

Raipur, dated 06 1/2/2014

M/s Real Ispat & Power Limited,
Village – Borjhara, Post Office – Urla,
Tehsil & District - Raipur (C.G.) - 493221

Sub: - "Permission to Establish" for expansion in existing Induction Furnace of Capacity from 1,00,000 TPA to 4,00,000 TPA and Rolling Mill of Capacity from 1,00,000 TPA to 4,00,000 and Coal Gasifier (2x8200 Nm³/ Hr) at Village – Borjhara, Tehsil & District – Raipur (C.G.).

Ref: - 1. Environmental Clearance issued by State EIA Authority, Chhattisgarh, Ministry of Environment and Forests, Government of India vide letter no. 1253/SEIAA-CG/Ind/Roll RYP/343 dated 07/08/2014.

2. Your application no. RIPL/SD/2014-15/024, dated 30/08/2014 and subsequent correspondence ending dated 27/09/2014.

--:00:--

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 and without reducing your responsibilities under the said Acts and after going through your proposal for achieving the effluent and gaseous emission standards, it is to inform you that this Board grants you permission to establish only for expansion in existing Induction Furnace of Capacity from 1,00,000 TPA to 4,00,000 TPA and Rolling Mill of Capacity from 1,00,000 TPA to 4,00,000 and Coal Gasifier (2x8200 Nm³/ Hr) at Village – Borjhara, Tehsil & District – Raipur (C.G.) subject to fulfillment of following terms and conditions:-

Terms & Conditions: -

1. Industry shall comply with all the terms and conditions of Environmental Clearance granted by State EIA Authority, Chhattisgarh, Ministry of Environment and Forests, Government of India vide letter no. 1253/SEIAA-CG/Ind/Roll RYP/343 dated 07/08/2014.
2. Industry shall provide adequate facility for proper treatment of industrial effluent (if any) 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 same alternate arrangement shall be provided. Treated effluent shall be utilized either in process or for plantation purposes

- within plant premises only. Industry shall make arrangement of suitable drains/pipe networks to ensure adequate flow for full utilization of treated effluent inside the premises. No effluent shall be discharged out of plant premises under any circumstances. Hence zero discharge condition outside the premises shall be maintained all the time. Industry shall ensure the treated effluent quality within standard prescribed by Ministry of Environment & Forests, Government of India. Industrial wastewater shall conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and December, 1993 or as amended form time to time.
3. Any liquid effluent what so ever generated from industrial activities shall not be discharged into the river or any surface water bodies under any circumstances, and it shall be reused wholly in the process/plantation. All the industrial effluent generated shall be re-circulated/reused after proper treatment. Industry shall provide sewage treatment system of adequate capacity for treatment of domestic effluent generated. The un-treated/treated domestic effluent shall not be discharge into the river or any surface water bodies. The treated domestic effluent shall be used for plantation purpose after proper disinfection. The concept of zero discharge shall be maintained all the time except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.
 4. Industry shall provide adequate measuring arrangements for the measurement of water utilized in different categories and effluent generated before commissioning of the plant.
 5. Closed cycle cooling system shall be provided. Minimum water for makeup purposes shall be ensured.
 6. Industry shall use coal only to produce gas from the gasifier and this gas shall be used as a fuel. Coal shall not be used directly in the Rolling Mill either as a fuel or raw material.
 7. No ground water shall be used. Total water requirement shall not exceed 395 KLD for proposed activity.
 8. Industry shall not utilize coal as a fuel for reheating furnace of rolling mill and induction furnaces. Only furnace oil / producer gas shall be used as fuel in reheating furnace of rolling mill.
 9. Industry shall provide adequate air pollution control arrangements at all point and non point sources. Collecting hoods with bag filters of adequate capacity and high efficiency shall be installed in induction furnaces with minimum 30 meter stack to ensure outlet dust (particulate matter) emission less than 50 mg/Nm³ all the time. Wet scrubber / bag filter of adequate capacity and high efficiency shall be installed in rolling mill to ensure outlet dust (particulate matter) emission less than 50 mg/Nm³ all the time. Industry shall install suitable & effective air pollution control equipments at all transfer points, junction points 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 and induction furnace / arc furnace unit. 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)
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Industry shall provide proper space provision for further retrofitting of air pollution control systems in case of further stringency of particulate matter emission limit. The height of other stack(s) shall not be less than 30 meters.

10. The gaseous emissions from various processes 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. 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.
11. Secondary fugitive emissions 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. Industry shall maintain fugitive dust emissions to the minimum level in the areas of road transportation routs of raw material, product to ensure National Ambient Air Quality Standards prescribed including black topping/asphalting/concreting and maintenance with requisite water sprinkling arrangements.
12. All air pollution control systems shall be kept in good running conditions 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 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.
13. Regular monitoring of ground level concentration of SO₂, NO_x, PM₁₀ and 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 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.
14. Industry shall install separate electric metering arrangements with time totalizer 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.
15. Industry shall utilize the fly ash bricks/blocks etc. in all construction activities.
 16. Industry shall take effective steps for safe disposal of solid wastes and sludge. Furnace slag shall be crushed and passed through magnetic separator to recover the metallic contents and the same shall be utilized as raw material in steel making. Non-metallic contents shall be used in back filling within plant premises. End cutting from rolling mill shall be used as raw material in own Induction Furnaces for steel making. 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.
 17. Industry shall obtain authorization from Board for management and handling of hazardous materials as per Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008.
 18. Industry shall take effective steps for safe storage and disposal of solid wastes such as sinders and tar. Ash (sinders) generated from coal gasifer shall be used in brick manufacturing / land filling etc. The filled up area shall be reclaimed with soil cover and plantation immediately. Tar shall be sold to registered recyclers.
 19. All the internal roads shall be made pucca before commissioning of the plant Industry shall adopt good house keeping practices.
 20. Industry shall take proper action to control the noise pollution. Industry 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 employee working in the high noise areas. Leq of /noise levels emanating from machines shall be limited to 75 dBA. The noise level shall not exceed the limits 75 dB (A) during the daytime and 70 dB (A) during the night time within the factory premises. Industry 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 audiometric record and for treatment for any hearing loss including rotating them to non-noisy/ less noisy areas.
 21. Industry shall provide appropriate arrangements to avoid air pollution, water pollution, noise pollution etc. during construction phase and during 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 also 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.
 22. The construction of effluent treatment system and installation of air pollution control equipments shall be taken up simultaneously with

other civil/mechanical works of proposed unit. The 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.

23. 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.
24. Disaster Management plan shall be prepared to meet any eventuality 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.
25. As far as possible maximum area of open spaces shall be utilized for plantation purposes. Industry 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. Tree density of 1500–2000 trees per hectare (600 nos. of plants per acre) with local broad leaf species should be maintained. A wide green belt of broad leaf local species shall be developed in at least 33% of the project area. Central Pollution Control Board guidelines shall be followed in planning and developing green belt and selection of species etc.
26. Industry 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 material. Sedimentation pits shall be constructed at the corners of the garland drains. Industry shall provide adequate collection and treatment arrangement for proper management of storm water. The surface run-off shall be de-silted through a series of check dams and drains.
27. Industry shall adopt rainwater-harvesting technique in the project area for recharge of ground water. The rainwater-harvesting technique shall be incorporated right from the design stage of all structures. Industry 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.
28. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and 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.
29. Industry shall establish an environmental management cell to carry out function relating to environmental management under the supervision of senior executive who would directly report to the head of organization. A full-fledged laboratory with qualified technical/scientific staffs to monitor the influent, effluent, ground water, surface water, soil and ambient air quality etc. shall be provided.
 30. Necessary funds shall be provided for implementation of the above conditions, conditions to be incorporated in consent for operating the induction furnace and for environmental safeguards. The funds earmarked for environmental protection measures shall be kept in separate account and not diverted for any other purpose.
 31. Industry shall follow the terms & conditions to be incorporated in consent for operating the plant under Water (Prevention and Control of Pollution) Act, 1974, and the Air (Prevention and Control of Pollution) Act, 1981.
 32. Industry shall obtain all necessary statutory clearances/licenses from concerned Central/State Government Departments, Boards, Bodies and Corporations etc. before establishment of induction furnace of expansion capacity. Industry shall follow direction issued by Central/State Government, Central Pollution Control Board/Chhattisgarh Environment Conservation Board from time to time regarding control of water & air pollution and for environmental conservation.
 33. The issuance of 'Permission to Establish' does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.
 34. Any change in capacity of induction furnace, technology, scope of work, process, project profile etc. shall be intimated to the Board and prior permission of the Board shall be obtained for the same.
 35. This permission to establish shall be valid for the period of five years effective from the date of issue of this letter. This permission to establish shall be treated as cancelled in case; no construction activity has been started on the site regarding establishment of the plant during this period. Chhattisgarh Environment Conservation Board reserves the right to extend the validity period / not to extend the validity period/ cancel /withdraw the permission to establish of the plant, based on the construction activities carried out on the site regarding establishment of the plant.
 36. Board may amend/cancel any of the conditions stringent the effluent/emission limit and add new conditions as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.

The consent (for operation) as required under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act,

1981 shall be granted to your industry after fulfillment of all the conditions mentioned above. For this purpose you shall have to make an application to this Board in the prescribed Proforma at least two months before the expected date of commissioning of your industry. The applicant shall not without valid consent (for operation) of the Board bring into use any out let for the discharge of effluent and gaseous emission.

For & on behalf of
Chhattisgarh Environment Conservation Board


Member Secretary

Chhattisgarh Environment Conservation Board
Raipur (C.G.)

Endt. No. /TS/CECB/2014

Raipur, dated: ___/___/2014

Copy to: -

1. Chief Engineer (Commercial), Chhattisgarh State Electricity Distribution Company Limited, Raipur, for information and necessary action please. The power supply to the unit shall be released only after submission of the copy of "**Consent to Operate**" issued by Chhattisgarh Environment Conservation Board, Raipur.
2. Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Raipur (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.


Member Secretary

Chhattisgarh Environment Conservation Board
Raipur (C.G.)



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

Paryavas Bhawan, North Block, Sector - 19,
Nava Raipur Atal Nagar, District - Raipur (C.G.)
E-mail - hocecb@gmail.com

No. 10284 /TS/CECB/ 2021
To,

Nava Raipur Atal Nagar, Dated 23 / 02 / 2021

M/s Real Ispat & Power Limited
Village - Borjhara, Post - Urla,
Tehsil & District - Raipur (C.G.)

Sub: - Renewal of the consent of the Board under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

Ref: - 1. Clubbing consent of the Board under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 issued vide letter no. 725/TS/CECB/2017 Raipur, dated: 19/05/2017 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 issued vide letter no. 727/TS/CECB/2017 Raipur, dated: 19/05/2017.

2. Amendment in Consent of the Board for expansion in existing plant for Induction Furnace - 1,50,000 Tonnes per Annum, Re-rolled Products - 1,50,000 Tonnes per Annum and Coal Gasifier Plant of Capacity - 1x8200 Nm³/Hour under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 issued vide letter no. 2155/TS/CECB/2018 Raipur, dated: 02/06/2018 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 issued vide letter no. 2155/TS/CECB/2018 Raipur, dated: 02/06/2018.

3. Renewal of consents under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 issued vide letter no. 7904/TS/CECB/2019 Raipur, dated: 28/02/2019 for Sponge Iron (2x100 TPD DRI Kiln) -60,000 Metric Tonnes Per Annum, Captive Power Plant (06 MW WHRB + 07 MW FBC) - 13 MW, Steel Ingots, Billets/ Blooms through Induction Furnace and CCM route - 3,25,000 Tonnes Per Year, Re-Rolled Products - 3,10,000 Tonnes Per Year, Coal Gasifier Plant of Capacity 1x8200 Nm³/Hour, Wire Drawing Mill - 1,00,000 Tonnes Per Annum and G.I. Wire - 50,000 Metric Tonnes Per Annum.

4. Amendment in consent of the Board under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 issued vide letter no. 783/TS/CECB/2019 Raipur, dated: 10/05/2019 for expansion in existing Rolling Mill – 3,10,000 Tonnes Per Annum to 4,00,000 Tonnes Per Annum.

5. Amendment in consent of the Board under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 issued vide letter

no. 10071/TS/CECB/2020 Nava Raipur Atal Nagar, dated: 13/02/2020 for New Induction Furnace (2 x 15 tonne) – 75,000 Tonnes Per Annum.

6. Your online application dated: 11/01/2021 (online application no. 6732321)

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With reference to your above application, consents under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 are hereby renewed for a period of three years i.e. from 01/03/2021 to 29/02/2024, subject to the fulfillment of the terms and conditions incorporated in the water consent letter no. 725/TS/CECB/2017 Raipur, dated: 19/05/2017 and air consent letter no. 727/TS/CECB/2017 Raipur, dated: 19/05/2017, subsequent amendments in consent, renewal of consent issued by the Board and additional conditions mentioned below.

These renewal of consents is valid for products & production capacity of:-

S.No.	Name of Product	Production Capacity
1.	Sponge Iron (2x100 TPD DRI Kiln)	60,000 Metric Tonnes per Annum (Sixty Thousand Metric Tonnes per Annum)
2.	Captive Power Plant (06 MW WHRB + 07 MW FBC)	13 MW (Thirteen Megawatt)
3.	Steel Ingots, Billets/ Blooms through Induction Furnace and CCM route	3,25,000 Tonnes Per Year (Three Lakh Twenty Five Thousand Tonnes Per Year)
4.	Re-Rolled Products	4,00,000 Tonnes Per Year (Four Lakh Tonnes Per Year)
5.	Coal Gasifier Plant	1x8200 Nm ³ / Hour (One Into Eight Thousand Two Hundred Normal Cubic Meter Per Hour)
6.	Wire Drawing Mill	1,00,000 Tonnes Per Annum (One Lakh Tonnes Per Annum)
7.	G.I. Wire	50,000 Metric Tonnes Per Annum (Fifty Thousand Metric Tonnes Per Annum)
8.	New Induction Furnace (2 x 15 tonne)	75,000 Metric Tonnes Per Annum (Seventy Five Thousand Metric Tonnes Per Annum)

Additional Conditions

A. Water consent as per the Water (Prevention and Control of Pollution) Act, 1974

1. Industry shall comply the conditions mentioned in the amendment in consent issued vide letter no. 10071/TS/CECB/2020 Nava Raipur Atal Nagar, dated: 13/02/2020 for New Induction Furnace (2 x 15 tonne) – 75,000 Tonnes Per Annum.
2. Industry shall not utilize any solid / liquid / gases fuel such as coal, furnace oil, diesel, producer gas, etc. in any form as a fuel in new induction furnace. The hot billets from continuous casting machine (CCM) shall be charged into rolling mill for manufacturing of rolled products.

3. Industry shall operate and maintain the effluent treatment system and sewage treatment plant effectively regularly. Industry shall ensure treated effluent quality within the standards prescribed by Board published in Gazette Notification dated: 25/03/1988. Industry shall not discharge any treated/untreated effluent in to the river or any surface water bodies. No effluent shall be discharged outside of the factory premises in any circumstances; hence zero discharge conditions shall be maintained all the time.
4. Industry shall ensure compliance of effluent standards as prescribed by Ministry of Environment, Forest and Climate Change, Government of India for Power Plant and Sponge Iron Plant vide notification dated 07/12/2015 (as amended).
5. Char/dolochar generated from sponge iron process shall be utilized for the various beneficial uses. All raw materials, coal, finished products, solid wastes such as; dolochar, coal fines, iron ore fines, slag, sludge, mill scale, end cuttings and dust collected in air pollution control devices etc. shall be stored temporarily above ground level with pucca platform in covered area for small period. Industry shall provide proper, safe and scientific arrangement for handling, storage and disposal of all solid wastes such as; dolochar, coal fines, iron ore fines, slag, sludge, mill scale, end cuttings and dust collected in air pollution control devices etc.
6. Industry shall adopt dry ash extraction and dry ash disposal system. Ash generated from plant shall not be stored on land in open areas in any circumstances. Ash generated shall be stored in closed silos only. Ash generated shall be collected in dry form in storage silos as temporary storage and it shall be utilized 100% for other beneficial uses such as brick making, road construction, cement making, filling in low-lying areas and abandoned mines etc. If at any point of time all the storage silos completely filled with ash, then in that case industry shall shut down the plant till such time the ash disposed to other beneficial uses. Industry shall ensure transportation of fly ash/bottom ash for back filling / beneficial uses by covered vehicles to prevent emission during transportation.
7. Industry shall take effective steps for safe & scientific storage and disposal of solid wastes such as sinder and tar. Ash (sinder) generated from coal gasifier shall be used in brick manufacturing / land filling etc. The filled up area shall be reclaimed with soil cover and plantation immediately. Tar shall be sold to registered recyclers.
8. Industry shall only use treated effluent for preparation of lime / neutralization slurry / other slurry (if any) for use in ETP. No fresh water shall be utilized for such purposes. Industry shall use treated effluent for make-up of cooling water / process water as maximum as possible.
9. Industry shall utilize water supplied from CSIDC as per proposal submitted. No ground water withdrawal shall be allowed without permission of CGWA. Industry shall use harvested rainwater in the process as maximum as possible.
10. Industry shall ensure regular running of continuous monitoring of effluent quality / quantity as per CPCB guidelines for relevant parameters (like pH, Flow, Temperature, TOC/COD etc.) and shall be connected to CECB / CPCB server. Industry shall also install flow meter. Industry shall submit monitoring report of effluent regularly. Calibration and validation of data

shall be carried out of all CWQMS and industry shall ensure availability of real time data in CECB / CPCB server.

11. Industry shall obtain letter of authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (as amended up to date) from the Board. Industry shall dispose its hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Industry shall strictly comply with all the measures specified in guidelines for spent solvent management, spent acid management, and other guidelines / directions published from time to time by CECB / CPCB / MoEF&CC. Industry shall ensure transportation of Hazardous Wastes through GPS mounted vehicles.
12. Industry shall submit report of compliance of the conditions of EC every year to the Board prepared by third party. The first party shall be submitted within one month.
13. Industry shall submit environmental audit report audited by reputed Government Institution like IIT / NIT etc. of all the units within one month.
14. Industry shall ensure transportation of raw materials, fuel, dust generating products by properly covered vehicles. Industry shall also ensure use of mechanically covered vehicles for transportation of raw materials, fuel, dust generating products before 12/07/2021.
15. All internal roads shall be maintained pucca. Industry shall adopt good housing keeping practice. Vehicle movement areas / roads within premises shall be maintained pucca from drain to drain to avoid dusting.
16. Industry shall use fly ash brick, fly ash block and fly ash based products in the construction/repairing activities.
17. Wide green belt of broad leaf local species shall be developed along the plant premises. As far as possible maximum area of open spaces shall be utilized for plantation purposes. Green belt / plantation shall be developed within the plant premises in at-least 40 % area of total plant area. Development of green belt / plantation outside project premises in adjacent areas such as avenue plantation, plantation in vacant areas, social forestry, etc. shall also be ensured.
18. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
19. Industry shall follow the terms and conditions stipulated in the Chhattisgarh Environment Conservation Board's order no. 7261/TS/CECB/2015, Raipur dated 06/02/2015. In case of non compliance of any terms and conditions mentioned above or mentioned in the above order, this renewal of the consent may be cancelled.
20. This renewal of consent is being issued under the "Scheme of Auto-Renewal of Consent" of the Board issued vide office order no. 5937 dated 29/01/2018 as per self certificate submitted by authorized signatory Mr. Rajesh Biswas, General Manager (Corporate Affairs), M/s Real Ispat & Power Limited, Village - Borjhara, Post - Urla, Tehsil & District - Raipur (C.G.).

21. In case, if the capital investment is increased by such amount that the total investment exceeds the range for which renewal fees has been paid, the industry shall have to pay the difference amount of renewal fees for the corresponding block years.
22. In case, the prescribed fee payable is amended in future, the industry shall be liable to pay the difference amount for corresponding block years.
23. Chhattisgarh Environment Conservation Board reserves the rights to revoke the consent / renewal of consent at any time for any violation/non-compliance.

B. Air Consent as per the Air (Prevention and Control of Pollution) Act, 1981

1. Industry shall comply the conditions mentioned in the amendment in consent issued vide letter no. 10071/TS/CECB/2020 Nava Raipur Atal Nagar, dated: 13/02/2020 for New Induction Furnace (2 x 15 tonne) – 75,000 Tonnes Per Annum.
2. Industry shall not utilize any solid / liquid / gases fuel such as coal, furnace oil, diesel, producer gas, etc. in any form as a fuel in new induction furnace. The hot billets from continuous casting machine (CCM) shall be charged into rolling mill for manufacturing of rolled products.
3. Industry shall operate and maintain the existing pollution control systems regularly and effectively to achieve particulate matter emission from sponge iron plant, WHRB, FBC less than 50 mg/Nm³ all the time. Industry shall ensure the emission of particulate matter less than 30 mg/Nm³ from the stacks from all induction furnace(s) in all circumstances. Industry shall also maintain the ambient air quality within the factory premises within prescribed limits. Effective steps shall be taken to control fugitive emission inside the factory premises. Industry shall ensure the fugitive dust emission within standards prescribed by Ministry of Environment & Forest, Government of India published in Gazette Notification GSR 414(E) dated: 30/05/2008. Chhattisgarh Environment Conservation Board may further stipulate stringent limit depending upon environmental conditions.
4. Industry shall ensure compliance of emission standards as prescribed by Ministry of Environment, Forest and Climate Change, Government of India for Power Plant and Sponge Iron Plant vide notification dated 07/12/2015 (as amended).
5. Char/dolochar generated from sponge iron process shall be utilized for the various beneficial uses. All raw materials, coal, finished products, solid wastes such as; dolochar, coal fines, iron ore fines, slag, sludge, mill scale, end cuttings and dust collected in air pollution control devices etc. shall be stored temporarily above ground level with pucca platform in covered area for small period. Industry shall provide proper, safe and scientific arrangement for handling, storage and disposal of all solid wastes such as; dolochar, coal fines, iron ore fines, slag, sludge, mill scale, end cuttings and dust collected in air pollution control devices etc.
6. Industry shall take effective steps for safe & scientific storage and disposal of solid wastes such as sinder and tar. Ash (sinder) generated from coal gasifier shall be used in brick manufacturing / land filling etc. The filled up area shall be reclaimed with soil cover and plantation immediately. Tar shall be sold to registered recyclers.

7. Industry shall adopt dry ash extraction and dry ash disposal system. Ash generated from plant shall not be stored on land in open areas in any circumstances. Ash generated shall be stored in closed silos only. Ash generated shall be collected in dry form in storage silos as temporary storage and it shall be utilized 100% for other beneficial uses such as brick making, road construction, cement making, filling in low-lying areas and abandoned mines etc. If at any point of time all the storage silos completely filled with ash, then in that case industry shall shut down the plant till such time the ash disposed to other beneficial uses. Industry shall ensure transportation of fly ash/bottom ash for back filling / beneficial uses by covered vehicles to prevent emission during transportation.
8. Industry shall ensure regular running of Continuous Emission Monitoring System - CEMS (as per CPCB guidelines for relevant parameters) in all the stack(s) and shall be connected with CECB/CPCB server. Calibration and validation of data shall be carried out of all CEMS / CAAQMS and industry shall ensure availability of real time data in CECB / CPCB server.
9. Industry shall establish adequate vehicle wheel wash system at entry and exit point(s) of plant to control wheel generated muck / dust.
10. Industry shall submit report of compliance of the conditions of EC every year to the Board prepared by third party. The first party shall be submitted within one month.
11. Industry shall submit environmental audit report audited by reputed Government Institution like IIT / NIT etc. of all the units within one month.
12. Industry shall ensure transportation of raw materials, fuel, dust generating products by properly covered vehicles. Industry shall also ensure use of mechanically covered vehicles for transportation of raw materials, fuel, dust generating products before 12/07/2021.
13. All internal roads shall be maintained pucca. Industry shall adopt good housing keeping practice. Vehicle movement areas / roads within premises shall be maintained pucca from drain to drain to avoid dusting.
14. Industry shall use fly ash brick, fly ash blocks or fly ash based products in their construction / repairing activities.
15. Wide green belt of broad leaf local species shall be developed along the plant premises. As far as possible maximum area of open spaces shall be utilized for plantation purposes. Green belt / plantation shall be developed within the plant premises in at-least 40 % area of total plant area. Development of green belt / plantation outside project premises in adjacent areas such as avenue plantation, plantation in vacant areas, social forestry, etc. shall also be ensured.
16. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
17. Industry shall follow the terms and conditions stipulated in the Chhattisgarh Environment Conservation Board's order no. 7261/TS/CECB/2015, Raipur dated 06/02/2015. In case of non compliance of any terms and conditions mentioned above or mentioned in the above order, this renewal of the consent may be cancelled.
18. This renewal of consent is being issued under the "Scheme of Auto-Renewal of Consent" of the Board issued vide office order no. 5937 dated

29/01/2018 as per self certificate submitted by authorized signatory Mr. Rajesh Biswas, General Manager (Corporate Affairs), M/s Real Ispat & Power Limited, Village - Borjhara, Post - Urla, Tehsil & District - Raipur (C.G.).

19. In case, if the capital investment is increased by such amount that the total investment exceeds the range for which renewal fees has been paid, the industry shall have to pay the difference amount of renewal fees for the corresponding block years.
20. In case, the prescribed fee payable is amended in future, the industry shall be liable to pay the difference amount for corresponding block years.
21. Chhattisgarh Environment Conservation Board reserves the rights to revoke the consent / renewal of consent at any time for any violation/non-compliance.

Please acknowledge the receipt of this letter.

Member Secretary

Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar
District - Raipur (C.G.)

Endt. No. 10285 /TS/CECB/2021 Nava Raipur Atal Nagar, dated: 23 / 02 / 2021

Copy to: -

Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Raipur (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.

Sd/-

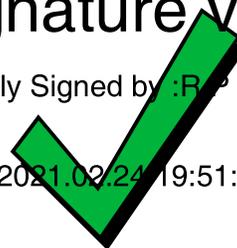
Member Secretary

Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar
District - Raipur (C.G.)

Signature valid

Digitally Signed by :R.P Tiwari
MS

Date: 2021.02.24 19:51:57 IST





CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

PARYAVAS BHAWAN, NORTH BLOCK,
SECTOR -19, NAVA RAIPUR ATAL NAGAR,
RAIPUR (C.G.) 492002

E-mail : hocecb@gmail.com, Ph. No. 0771-2512220

No. 6074 /HSMD/HO/CECB/2021

Raipur, Date 29/11/2021

To,

**M/s Real Ispat and Power Limited,
Village-Borjhara, Block-Dharsiwa,
Tehsil and District - Raipur (C.G.)**

Sub:- Grant of amendment and subsequent renewal of authorization under the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

Ref:- 1. Grant of amendment in authorization letter no. 5003/ HSMD/HO/CECB/2018 dated 11/09/2018
2. Your Online application no. 7404540 dated 05/05/2021 & Subsequent Correspondence ending dated 05/10/2021.

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Chhattisgarh Environment Conservation Board had granted of an amendment in authorization under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 vide letter no. 5003/ HSMD/HO/CECB/2018 dated 11/09/2018 for following hazardous waste, category and quantity subject to fulfillment of the terms and conditions mentioned therein. :-

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing etc.	Quantity
1.	Used or spent Oil (Schedule - I, Cat. No. 5.1)	to be sold to authorized recycler	1.8 KL/Year
2.	Tarry residues waste (Schedule - I, Cat. No. 35.1)	to be sold to authorized recycler	1.5 KL/Year
3.	Chemical sludge from waste water treatment (Schedule - I, Cat. No. 35.3)	Co-processing in Cement Kiln/Dispose in CTSDF	0.5 MT/Year
4.	Spent acid and alkali (Schedule - I, Cat. No. 12.2)	After Treatment used in the premises/to be sold to authorized recycler	2.1 KL/Year
5.	Zinc fines or dust or ash or skimmings in dispersible form (Schedule - I, Cat. No. 6.2)	to be sold to authorized recycler	63 MT/Year
6.	Spent Ion exchange resin containing toxic metals (Schedule - I, Cat. No. 35.2)	to be utilized for energy recovery in boiler for steam or power generation/for energy recovery in direct reduced iron (DRI) kiln of sponge iron	0.1 MT/Year

		within premises/ co-processing in cement plant	
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Industry, vide their online application no. 7404540 dated 05/05/2021 has requested for an amendment and subsequent renewal with respect to hazardous waste corresponding quantity mentioned therein. Based on the inspection report from R.O. and after considering the application, facts and materials in records the board has decided to issue amendment and subsequent renewal of authorization with respect to hazardous waste and their corresponding quantity mentioned below.

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorized mode of disposal or recycling or utilization or co-processing etc.	Quantity
1.	Used or spent oil (Schedule - I, Cat. No. 5.1)	Use for lubrication, oiling of machine and sale to authorized recycler	1.8 KL/Year
2.	Tarry residues waste (Schedule - I, Cat. No. 35.1)	Sale to authorized recyclers	1.5 KL/Year
3.	Chemical sludge from waste water treatment (Schedule - I, Cat. No. 35.3)	Co-processing in Cement Kiln	0.5 MT/Year
4.	Spent acid and alkali (Schedule - I, Cat. No. 12.2)	After Treatment Reuse in Plant	2.1 KL/Year
5.	Zinc fines or dust or ash or skimmings in dispersible form (Schedule - I, Cat. No. 6.2)	Sale to authorized recyclers	63 MT/Year
6.	Spent Ion exchange resin containing toxic metals (Schedule - I, Cat. No. 35.2)	Use as a fuel in sponge iron kiln as per SOP of CPCB	0.1 MT/Year
7.	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes, (Schedule - I, Cat. No. 33.1)	Sale to authorized recyclers	50 Nos/Year
8.	Contaminated cotton rags or other cleaning materials (Schedule - I, Cat. No. - 33.2)	Co-processing in Cement Kiln	0.1 T/Annum
9.	Waste or residue containing oil (Schedule - I, Cat. No. 5.2)	Sale to authorized recyclers	0.1 T/Year

The amendment and renewal of authorization shall be valid for the period of **Five Years i.e. from 03/06/2021 to 02/06/2026**. The details of authorization along with terms & conditions are given as per below:

FORM 2
[See rule 6 (2)]

GRANT OF AMENDMENT AND SUBSEQUENT RENEWAL OF AUTHORIZATION
BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS,
REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization **423/HO/HSMD/CECB/NAVA RAIPUR ATAL NAGAR, RAIPUR**
2. Reference of Online application no. **7404540** dated **05/05/2021** & **Subsequent Correspondence ending dated 05/10/2021.**
3. The operator of facility i.e. occupier **M/s Real Ispat and Power Limited Village-Borjhara, Block-Dharsiwa, Tehsil and District - Raipur (C.G.)** is hereby granted an authorization based on the signed inspection report from RO for Generation, Collection, Storage, Transportation, Reuse, Utilisation, Disposal of hazardous wastes in the premises situated at **Village-Borjhara, Block-Dharsiwa, Tehsil and District - Raipur (C.G.)**.

Detail of Authorisation

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing etc.	Quantity
1.	Used or spent oil (Schedule - I, Cat. No. 5.1)	Use for lubrication, oiling of machine and sale to authorized recycler	1.8 KL/Year
2.	Tarry residues waste (Schedule - I, Cat. No. 35.1)	Sale to authorized recyclers	1.5 KL/Year
3.	Chemical sludge from waste water treatment (Schedule - I, Cat. No. 35.3)	Co-processing in Cement Kiln	0.5 MT/Year
4.	Spent acid and alkali (Schedule - I, Cat. No. 12.2)	After Treatment Reuse in Plant	2.1 KL/Year
5.	Zinc fines or dust or ash or skimmings in dispersible form (Schedule - I, Cat. No. 6.2)	Sale to authorized recyclers	63 MT/Year
6.	Spent Ion exchange resin containing toxic metals (Schedule - I, Cat. No. 35.2)	Use as a fuel in sponge iron kiln as per SOP of CPCB	0.1 MT/Year
7.	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes, (Schedule - I, Cat. No. 33.1)	Sale to authorized recyclers	50 Nos/Year
8.	Contaminated cotton rags or other cleaning materials (Schedule - I, Cat. No. - 33.2)	Co-processing in Cement Kiln	0.1 T/Annum
9.	Waste or residue containing oil (Schedule -I, Cat. No. 5.2)	Sale to authorized recyclers	0.1 T/Year

(1) The authorization shall be valid for the period of **Five Years i.e. from 03/06/2021 to 02/06/2026.**

(2) The authorization is subject to the following conditions:

TERMS & CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The person authorized shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.
7. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
8. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
9. Industry shall prepare emergency response plan (ERP) and ensure implementation the same at the event of any accident occurs due to handling and transporting of hazardous waste as per CPCB guideline.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per standard operating procedures/guidelines issued by CPCB from time to time.
11. An application for the renewal of an authorization shall be made three months before the expiry of authorization as laid down in the Rules.
12. Annual return in form IV shall be filed by June 30th for the period ending 31st March of the last financial year.
13. **Industry shall submit On site Emergency Plan approved by Department of Industrial Health and Safety within 03 months from the date of issue of this letter.**
14. The wastes shall be collected and stored properly with adequate safety measures as per rule.
15. Authorized person shall comply with the provisions of rule 17, 18 and 19 for packing, labeling and transport of Hazardous Waste.
16. The authorized person should maintain the record of Hazardous Waste as per Form-3 of Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
17. The occupier shall follow the guidelines (if any) issued by Central Pollution Control Board or MoEF & CC for management of Hazardous waste from time to time.
18. The industry shall display data outside factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
19. Industry shall ensure disposal of hazardous waste generated during the production process through authorized recycler/Co-processing in cement plant/captive disposal facility/arrangement for sharing of authorized disposal facility/common TSDF as per rule. Failing which this authorization shall be treated as cancelled and appropriate action would be initiated against the industry.
20. Industry shall ensure that the transportation of hazardous wastes should be carried out through GPS enable dedicated vehicles of authorized transporters only.

21. Industry shall create new website for Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and upload all the information above the waste in the website.
22. The waste must be given thermal/biological/physico-chemical treatment; the waste should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
23. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.
24. An on-site storage of the hazardous wastes for a maximum period of 90 days should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.
25. At least four nos. of piezometric points should be provided around the storage site of H.W. to monitor the leaching of the waste and the monitoring report of the same shall be submitted to the board every six monthly. Each type of waste shall be stored in a separate storage cell.
26. The discarded containers of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.
27. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Concerned Regional Office and H.O., Atal Nagar, Raipur of the Board by fax/telephone or by E-mail about the incident and details report be sent in form no. 11 [see rule 22].
28. The authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.
29. Used batteries shall be disposed of as per the Batteries (Management & Handling) Rules, 2001.
30. Board reserves the right to cancel/amend the above condition and add new conditions as and when deemed necessary.

Member Secretary

C.G. Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

Endt. No. 6075/H.O./HSMD/CECB/2021 Atal Nagar, Raipur, Date 29/11/2021
Copy to :- Regional Officer, Regional office, Chhattisgarh Environment Conservation Board,
Raipur (C.G.) please ensure compliance and report, if any condition/conditions are
violated by the industry.

Signature Not Verified

Digitally Signed by : R P Tiwari
MS

Sd/-

Member Secretary
Date: 2021-11-29 18:54:50 IST
C.G. Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)