Monnet Ispat & Energy Limited

Village Kurud, Chandkhuri Marg, Mandir Hasaud, Raipur (Chhattisgarh) 492 101 CIN : L02710CT1990PLC009826, GST : 22AAACM0501D2ZJ Phone : +91 771-2471334 to 339, Fax : +91 771-2471250 E-mail : monnetraipur@aionjsw.in, Website : www.aionjsw.in

MIEL/MH/ENV/20-21/20

Dated: 13.06.2020

To

Additional Director

Ministry of Environment and Forest, Climate Change, Regional Office (WCZ), Ground Floor East Wing, New Secretariat Building, Civil Line, Nagpur-440001

Sub:- Submission of Half Yearly EC Compliance Report for the periof from October'2019 to March'2020 of the conditions stipulated in Environment Clearan ce.

Ref: - Environment Clearance No. J-11011/68/2005-IA II (I), Government of India, Ministry of Environment and Forests, dated 30/05/2005.

Dear Sir,

In reference to above subject, Please find enclosed herewith Half Yearly EC Compliance Report with Environment Monitoring Reports for the period from October' 2019 to March' 2020 against the conditions stipulated in Environment Clearance.

This is for your information and record please.

Thanking you,

Your Faithfully

For MONNET ISPAT & ENERGY Ltd.

Manager - Environment

Encl: As above

CC: The Zonal Officer, Central Pollution Control Board, Third Floor, Sahkar Bhawan, North T.T. Nagar, Bhopal (M.P.) 462003

The Member Secretary,

Chhattisgarh Environment Conservation Board, Sector-19 Paryawas Bhawan, Atal Nagar Raipur (C.G.) 492002

The Regional Officer,

Chhattisgarh Environment Conservation Board Commercial Complex, Housing Board, Kabir Nagar, RAIPUR (C.G.)

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MONNET ISPAT & ENERGY LIMITED, MANDIR HASAUD, RAIPUR (C.G)

Six Monthly Reports on Status of Compliance of Stipulated Conditions. for Expansion of Integrated Steel Complex, vide letter No. J-11011/ 68/2005-IAII (I), dated 30th May 2005

Period of Report: 01st Oct' 2019 to 31st Mar' 2020

SI.No	Specific Conditions	Status				
		The emissions from various processes are				
1	The gaseous emission from various process					
	units shall conform to the load/mass based					
	standards notified by this Ministry on 19 th	prescribed standard. To check the				
	May 1993 and standards prescribed from	emission level time to time, regular				
	time to time. The state board may specify	monitoring is conducted by us and as well				
0.0	more stringent standards for the relevant	as by the State Pollution Control Board				
	parameters keeping in view the nature of the	and suitable actions are taken to control				
	industry and its size and location. At no time	the emission level in case of emission				
	the emission level shall go beyond the	level goes beyond the limit. All the				
	prescribed standards. In the event of failure	process units are interlocked with installed				
	of any pollution control system adopted by	pollution control equipment's, which				
	the unit, the respective unit shall not be	immediately stop the process activities.				
	restarted until the control measures are	Stack monitoring reports is enclosed as				
	rectified to achieve the desired efficiency.	Annexure - II				
2	The Company shall install continuous air	We have already installed Online SO2				
	quality monitoring system in major stacks to	Nox & CO monitoring system in our al				
	monitor the SPM,So2,Nox and CO	stacks.				
3	There shall be no discharge of process	In order to check any discharge of process				
	effluent. As reflected in the EIA/EMP report,	effluents, the waste water managemen				
	the process waste water (1283 m3/day) shall	system encompasses installation of 5 pai				
	be collected in common settling tanks and	settling tanks at different locations of plan				
		premises with proper utilization				
	prescribed standards shall be used for dust	arrangement for horticulture purpose and				
	suppression and horticulture purposes within					
	the plant premises. The boiler blow down					
	shall be used for green belt development.					
	The DM effluent shall be used for dust	2 V (
	suppuration in ash handling system. The					
	domestic waste water shall be treated in the					
	septic tank and soak pit.	action is being taken to connect sewerage				
		2				
		line from the Old Housing to New Hou				

		Colony.
4	In plant control measures for checking	All the conveyor belts and transfer point
	fugitive emission from spillage/raw material	are connected with bag filters to control
	handling shall be provided. Further, specific	fugitive emission. Water sprinklers have
	measure like provision of dust extraction	been provided at yards. Pneumatic dus
	system at the loading and unloading areas of	extraction system has been installed for
	the plant to control the fugitive emission shall	conveying the collected dust from pollutio
	be provided. All conveyor belts and transfer	control equipment's.
	points shall be covered to prevent fugitive	3 Water tankers ply round the clock for
	emission. Data's on fugitive emission shall	sprinkling water on the internal roads an
	be regularly maintained and records	yards in the factory premises for checkin
	maintain.	fugitive emission.
	maintain.	Fugitive emission monitoring report
		enclosed as Annexure - V
<i>c</i>	The particulate emission from the waste heat	All the WHRBs are connected with ES
5		and working effectively. Bag filters hav
	recovery boiler shall be controlled by the	been installed at coal handling plant, ki
	installation by ESP of efficiency 99.9% and	
	particulate emission shall not exceed	cooler outlet, coal hopper, product hoppe
	100mg/Nm3. Further the company shall	and all are working effectively.
	install bag house to control the emission from	Stack monitoring reports is enclosed a
	coal handling plant, kiln, cooler outlet, coal	Annexure - II
	hopper injection, char fine lump, kiln feed	
	building, common ground hopper to control	
	the emission.	
6	Secondary emission from the induction	Secondary emission control system wi
	furnace during charging and tapping of	- 18 - 19 - 19 - 19 - 19 - 19 - 19 - 19
	molten metals shall be controlled by	induction furnaces.
	installation of automatic hood and secondary	
	emission control system.	
7	The company shall use char generated from	The 15 MW power plant is partly cha
	the sponge iron plant for captive power	based. Fly ash is being used f
	generation. Solid waste would be generated	manufacturing of bricks in the Company
	in the form of char (240 MT/Day), Fly ash	own bricks plant and partly supplied
	(220-250 MT/Day) and slag (120-220	outside brick plants and also used f
	MT/Day). The char shall be partly sold and	abandoned quarries. The slag is used f
	partly used as a fuel in the 15 MW power	filling of low lying area and for road makir
	plant. Fly ash shall be used for	purpose.
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	manufacturing of bricks in the companies	
	own bricks plant and it shall be partly sold to	
	cement manufactures and will be used for	
	abounded mines. The slag shall be used for	
	filling of low laying area and for road making	
	purpose.	
8	The company shall submit a time bound	Already submitted
	action plan to the ministry for implementation	
	of specific environmental protection	
	measures envisaged in the environmental	
	management plan.	
9	The company shall undertake rain water	Rain water harvesting measure has been
	harvesting measures to harvest the rain	implemented to preserve the rain water
	water for utilization in the lean season as well	inside the plant premises.
	as to recharge ground water table.	
10	Occupational health surveillance of the	Regular Occupational health check up of
	workers shall be done on a regular basis and	employees is in vogue. Records are
-	records maintain as per the factories act.	maintained as required. A 13 Bedded
		Hospital, named "MAINA DEVI HEALTH
		CENTRE" has become operational since
		January 2007. It is manned round the
		clock by medical and paramedical staff
		and caters to accidents/trauma cases.
		General medical problems of the
	2.	employees and their families are also
		treated at the health center.
		A records of Health checkup of employees
		is maintained in the prescribed format as
		per the provisions of Factory act, 1948.
11	The company shall maintain good house	The Company is maintaining good house
	keeping within the plant premises by	keeping within the plant premises as well
	systematic storage material, stacking and	as the raw material storage and mostly the
	movement, waste disposal and all the	internal roads are tarfelted and are being
	internal roads shall be asphalted.	cleaned and watered regularly. All internal
		roads have been made pucca and
		concrete (RCC).
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12	As reflected in the EIA/EMP report, the	The Company has developed green belt
	company shall develop green belt in an area	lawn & other plantation in an area o
	of 23.8 hec. Selection of the plant species	approx. 33 hec. Selection of the plan
	should be as per the central pollution control	species is as per the Central & Stat
	board guidelines.	Pollution Control Board guidelines.
13	Recommendations made in the CREP shall	Already been implemented.
	be implemented	4
14	The company shall undertake eco-	For eco-development the Company ha
	development measure including community	taken up rain water harvesting, wast
	welfare measure in the project area for the	water management, development of gree
	overall improvement of environment.	belt, plantation and utilization of waste a
		per the guidelines. Besides this th
		Company is undertaking communit
20		development programme for the welfare of
		the persons living in neighbouring village
		in the form of regular Health check-ups
		providing medical assistance, financial ai
		for surgical and other critical treatments
		financial assistance towards infrastructur
	20 E	development (Painting of Anganwad
		building, providing ceiling fans and chairs
		installation of 3 Bore wells in Nakta an
		Mandir Hasaud villages, providing utensil
		in primary schools of Nakta and Kuru
		villages, 3 sewing machines for
		handicapped children), education
		religious and cultural functions
	-	Organising regular vocational training t
		ladies and adolescent girls of adopte
	_	villages in different trades like stitching
		knitting, making of washing power, liqui
		soap, phenyl, jam, jelly and pickles etc
	_	Awareness programme for villagers o
		subjects like health, food & nutrition
		HIV/AIDS are conducted regularly beside
		awareness programme for adolescer
		girls. Water supply is also made to th

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		ponds of Kurud village. The Company is also undertaking RCC concrete road at a cost of Rs.4 Crores from Village Kurud to Junction point of 4 lane tar felted road at NH-6.
15	The project authorities must strictly adhere to the stipulated made by the Chhattisgarh Environment Conservation Board and State Government.	We adhere to the stipulations made by CECB/State Government.
16	No further expansion or modification in the plant should be carried out with out prior approval of the Ministry of Environment & Forest.	Noted.
17	At least for ambient air quality monitoring stations should be established in the down	We have established four no. of Ambient air quality monitoring stations at all the four
н Т	ward direction as well as where maximum ground level concentration of SPM, So2 and Nox are anticipated in consultation with the state pollution control board. Data's on ambient air quality and stack emission should be regularly submitted to this ministry including its regional office at Bhopal and State pollution control board.	directions and stack emission from major stack being monitored and report are being submitted to state pollution control board regularly. Ambient air quality monitoring reports is as enclosed Annexure - I
18	Industrial waste water should be properly collected, treated so as to confirm to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December, 1993 or a s amended from time to time. The treated waste water should be utilized for plantation purpose.	It is being treated waste water treated as per the prescribed norms. Analysis report of waste water is enclosed as Annexure - IV
19	The over all noise level in an around the plant area should be kept well within the standards (85dB A) by providing noise control measures including acoustic hood, silencers, enclosures etc. on all sources of noise generation. The ambient noise level should confirm to the standards prescribed	Noise level in and around the plant area are well within the standards (85dB A). We have provided noise control measures including acoustic hood, silencers, enclosures etc at all noise generation point. Concerned employees have been provided protective equipment like ear

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	under EPA rules, 1989 VIZ75dB A (day	plugs etc.
	time), 70 Db (night time).	Noise level monitoring reports is enclosed
		as Annexure - III
20	The project proponent shall also comply with	A 13 Bedded Hospital in the name of
	all the environmental control measures and	Maina Devi Health Centre has become
	safeguards recommended in the EIA/EMP	operational since January,2007. It i
	report. Further, the company must	manned round the clock by medical an
	undertake socio-economic development	paramedical staff and caters t
	activities in the surrounding villages like	accidents/trauma cases. General medica
	community development programmes,	problems of the employees and the
	educational programmes, drinking water	families are also treated at the Healt
	supply and health etc	Centre. The Company provides medica
		assistance to the neighboring villages b
	5	mobile van dispensary with a Doctor an
		paramedical staff. Different health camp
		are also organized. The Company ha
		also established Bore wells in villages for
		provision of safe potable water. Monne
	3	D.A.V. Public School has been establishe
		to provide education and providin
		learning opportunities to the wards of th
		employees as well as the wards of thos
		living in nearby villages. The school wa
		set up in 2001 and is presently running u
		to the academic session to Class-XII. Th
		school has 1250 students and 62 facult
		members. 75% of the students present
		studying are from the neighboring village
		of Mandir Hasaud, Kurud, Navagao
		Reco, Pallud, Chhatona, Jora, Sherikhed
		Chicha etc. Vocational training to ladie
		and adolescent girls as well as sk
		development programmes fo
		Anganwadies karyakartas besides informa

education programmes in Anganwadies are organized. Water supply is also made

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		to the ponds of Kurud village during summer. RCC concrete road at a cost of Rs.4 Crores is under progress from Village Kurud to Junction point of 4 lane tar felted road at NH-6.
21	The project authorities will provide separate	Separate fund has been earmarked for
	funds to implement the conditions stipulated	environmental up gradation.
	by the ministry of environment and forest as	
	well as the state government along with the	
	implementation schedule for all the	
	conditions stipulated herein. The funds so	
	provided should not be diverted for any other	
	purposes.	X.
22	The project authorities should inform the	It is already complied with.
	Regional Office as well the Ministry, the date	A
	of financial closure and final approval of the	
	project by the concerned authorities and date	с. х
	of commencing the land development work.	

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Tikam Chand Solanki Manager - Environment

Annexure – I

MONNET ISPAT & ENERGY LTD MANDIR HASAUD, RAIPUR (C.G.)

AMBIENT AIR QUALITY MONITORING REPORT OCTOBER' 2019 TO MARCH' 2020

Month	Parameter in µg/m ³	CAAQMS -1 About 500 mtr form source	CAAQMS -2 About 500 mtr form source	DAV School About 300 mtr form source	SMS-I (South) About 300 mtr form source		
	PM 2.5	34.29	22.07	30.27	31.32		
0.000	PM 10	30.41	23.71	40.51	43.62		
Oct'19	SO ₂	5.2	1.32	5.38	4.12		
	Nox	52.19	12.31	6.97	7.88		
	PM 2.5	29.11	28.85	33.11	35.77		
	PM 10	41.66	50.83	43.32	45.28		
Nov'19	SO ₂	11	1.8	9.2	6.29		
	Nox	41.92	0	11.28	8.65		
	PM 2.5	30.54	31.24	35.28	32.51		
n	PM 10	39.36	42.12	40.61	42.77		
Dec'19	SO ₂	10.63	1.97	5.12	4.65		
	Nox	40.34	0	9.32	6.81		
	PM 2.5	20.04	28.88	37.12	30.88		
2 332	PM 10	31.52	46.89	42.37	40.63		
Jan'20	SO ₂	11.01	2.43	4.24	3.45		
	Nox	44.18	0	7.51	5.02		
	PM 2.5	21.65	26.28	31.56	29.71		
12 AND 3	PM 10	39.69	56.39	47.61	35.12		
Feb'20	SO ₂	10.08	11.25	7.28	4.21		
	Nox	43.73	0	5.31	6.09		
	PM 2.5	27.11	26.07	35.11	31.22		
	PM 10	45.74	48.58	41.22	39.24		
Mar'20	SO ₂	10.67	12.07	6.31	5.77		
	Nox	44.85	0	5.84	7.1		
	PM 2.5	27.12	27.23	33.74	31.90		
	PM 10	38.06	44.75	42.61	41.11		
Average	SO ₂	9.77	5.14	6.26	4.75		
	Nox	44.54	2.05	7.71	6.93		

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Annexure - II

MONNET ISPAT & ENERGY LTD MANDIR HASAUD, RAIPUR (C.G.)

Six Monthly Stack Monitoring Report from October' 2019 to March' 2020

	Name of Stack											
Month		Sponge Iron		Power		Ferro		Steel - II				
	WHRB - 1	WHRB – 2	WHRB - 3&4	AFBC -1	AFBC -2	Stack - 1	Stack - 2	Stack - 1	Stack - 2			
Oct'19	45	36	40	42	43	32	29	32	29			
Nov'19	39	35	38	46	40	34	30	29	27			
Dec'19	36	39	40	42	0	30	28	25	29			
Jan'20	38	42	45	40	39	28	30	27	32			
Feb'20	37	40	42	45	37	31	29	25	28			
Mar'20	36	38	40	41	40	28	30	26	25			
Average	39	38	41	43	33	31	29	27	28			

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MONNET ISPAT & ENERGY LTD MANDIR HASAUD, RAIPUR (C.G.)

AMBIENT NOISE LEVEL MONITORING REPORT OCTOBER' 19 TO MARCH' 20

Month	Monitoring Location			Ambient Noise level Report Value in dB(A)			
Honen	Monitoring Docktion			Day Time	Night Time		
	Time Office (East)	75 dB(A)	70 dB(A)	72.47	66.31		
Oct'19	RMP-I (West)	75 dB(A)	70 dB(A)	73.84	67.44		
00010	SMS-I (South)	75 dB(A)	70 dB(A)	72.11	64.12		
	DAV School (Norht)	75 dB(A)	70 dB(A)	70.21	55.54		
	Time Office (East)	75 dB(A)	70 dB(A)	70.65	63.24		
	RMP-I (West)	75 dB(A)	70 dB(A)	73.09	66.61		
Nov'19	SMS-I (South)	75 dB(A)	70 dB(A)	73.11	63.12		
	DAV School (Norht)	75 dB(A)	70 dB(A)	70.17	54.35		
	Time Office (East)	75 dB(A)	70 dB(A)	69.12	58.34		
1222 1000 1002 100200	RMP-I (West)	75 dB(A)	70 dB(A)	72.30	59.42		
Dec'19	SMS-I (South)	75 dB(A)	70 dB(A)	72.69	60.55		
	DAV School (Norht)	75 dB(A)	70 dB(A)	69.75	63.12		
	Time Office (Feet)			71.22	65.75		
	Time Office (East) RMP-I (West)	75 dB(A)	70 dB(A)	71.51	66.24		
Jan'20		75 dB(A)	70 dB(A)	70.24	67.32		
	SMS-I (South)	75 dB(A)	70 dB(A)	Understein Zi	1		
	DAV School (Norht)	75 dB(A)	70 dB(A)	68.79	64.21		
	Time Office (East)	75 dB(A)	70 dB(A)	69.57	60.21		
	RMP-I (West)	75 dB(A)	70 dB(A)	70.24	64.72		
Feb'20	SMS-I (South)	75 dB(A)	70 dB(A)	71.16	65.42		
Feb'20	DAV School (Norht)	75 dB(A)	70 dB(A)	69.40	62.11		
	Time Office (East)	75 dB(A)	70 dB(A)	68.21	62.45		
	RMP-I (West)	75 dB(A)	70 dB(A)	71.25	63.53		
March'20	SMS-I (South)	75 dB(A)	70 dB(A)	70.78	66.24		
	DAV School (Norht)	75 dB(A)	70 dB(A)	66.24	52.13		
				122725 Success			
	Time Office (East)	75 dB(A)	70 dB(A)	70.21	62.72		
Average	RMP-I (West)	75 dB(A)	70 dB(A)	72.04	64.66		
, it of a go	SMS-I (South)	75 dB(A)	70 dB(A)	71.68	64.46		
	DAV School (Norht)	75 dB(A)	70 dB(A)	69.09	58.58		

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MONNET ISPAT & ENERGY LTD MANDIR HASAUD, RAIPUR (C.G.)

WASTE WATER ANALYSIS REPORT FOR OCTOBER' 2019 TO MARCH' 2020

Month	Parameter	limits		RMP-II Settling tank Overflow water	Ferro Settling tank Overflow water	
	PH	6.5 - 8.5	7.88	7.19	6.54	
	Temperature	.C	34	29	32	
OCT'2019	TSS	100mg/l	18	25	23	
0012019	BOD	30mg/l	9	14	17	
	COD	250mg/l	25	27	21	
	Oil & Grease	10mg/l	<10	<10	<10	
Ð	PH	6.5 - 8.5	7.89	7.51	6.11	
	Temperature	.C	35	28	30	
NOV'2019	TSS	100mg/l	31	29	26	
NOV 2019	BOD	30mg/l	11	8	12	
	COD	250mg/l	18	21	15	
	Oil & Grease	10mg/l	<10	<10	<10	
	PH	6.5 - 8.5	6.55	6.75	7.21	
	Temperature	.C	32	33	28	
DEC'2010	TSS	100mg/l	25	20	21	
DEC'2019	BOD	30mg/l	10	11	. 14	
	COD	250mg/l	23	17	19	
	Oil & Grease	10mg/l	<10	<10	<10	
	PH	6.5 - 8.5	7.45	7.22	7.01	
	Temperature	.C	27	30	32	
JAN'2020	TSS	100mg/l	18	22	19	
JAN 2020	BOD	30mg/l	8	12	11	
	COD	250mg/l	20	19	21	
	Oil & Grease	10mg/l	<10	<10	<10	
	PH	6.5 - 8.5	6.75	7.21	6.17	
	Temperature	.C	31	32	29	
FEB'2020	TSS	100mg/l	17	20	19	
FED 2020	BOD	30mg/l	13	16	11	
	COD	250mg/l	21	18	20	
	Oil & Grease	10mg/l	<10	<10	<10	
	PH	6.5 - 8.5	7.25	6.87	7.13	
	Temperature	.C	33	34	31	
MAR'2020	TSS	100mg/l	15	17	20	
MAIX 2020	BOD	30mg/l	10	12	9	
	COD	250mg/l	18	15	17	
	Oil & Grease	10mg/l	<10	<10	<10	

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MONNET ISPAT & ENERGY LTD MANDIR HASAUD, RAIPUR (C.G.)

FUGITIVE DUST EMISSION ANALYSIS REPORT OCTOBER' 2019 TO MARCH' 2020

	LOCATION	PERMISSIBLE		RESULTS					
S.NO.		LIMITs	UNIT	OCT'19	NOV'19	DEC'19	JAN'20	FEB'20	MAR'20
1	Kiln - IV Cooler Discharge Area	2000	µg/m3	1629	1232	-	1175	1216	1512
2	Kiln - III Devin Area	2000	µg/m3	1367	1532	1720	1358	1575	1425
3	Power CHP Area	2000	µg/m3	1193	1205	1256	1456	1309	1605
4	Kiln - I Cooler Discharge Area	2000	µg/m3	1358	1700	1432	1147	1705	
5	Ferro Debin Area	2000	µg/m3	2	1325	1584	1263	1625	2
6	Kilan - II Debin Area	2000	µg/m3	4	1411	2.4		1200	-

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