M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia
Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter#

F. No. J-11011//284/07- IA II (I)

Period -October 2017 - March 2018

111	SPECIFIC CONDITIONS										
1A. i.	Duanas and full										
1.	Proper and full plant using heat refule gas shall be discharged	utilization of covery steam general d into the air.	coke oven tors (WHRB) shall	gases in power be ensured and no							
Com											
	Month	Coke Production (Tonnes) Dry	POWER GENERATION (In MU)	Boiler utilisation percentage							
	Oct	130,374	61.7	95%							
	Nov	125,436	56.3	83%							
	Dec	124,206	64.6	90%							
	Jan	122,232	64.5	90%							
	Feb	112,402	60.5	94%							
	Mar	124,103	65.2	89%							
ii.	The plant is having 352 numbers of coke oven batteries (1.6 MTPA coke capacity) equally divided into 4 rows. 11 numbers of ovens are forming one block so each row is having 8 nos of block. 2 nos. of blocks of 11 ovens each is now connected to one no. of WHRB & subsequently 2 nos. of WHRBs connected to one no. of combined stack of 70 m height. So each row has 4 numbers of WHRBs and 2 no. of stack. Total 8 nos of stacks and 16 nos of boilers are present in the entire plant. Stacks are designed for stack emission <50 mg/Nm3 of particulate matter. There is no flow meter installed for measuring the gas volume discharged into the air. The prescribed emission standards for coke oven plants as notified vide notification no. GSR 46 (E) dated 3rd February, 2006 shall be complied with.										

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter# F. No. J-11011//284/07- IA II (I)

Period -October 2017 - March 2018

Com

- As per notification no. GSR 46(E) dated 3rd February 2006, no emission standards for Non recovery coke oven plant have been mentioned. Since this is the new unit established after the notification of 2006 published, the Non recovery / waste heat recovery technology has been adopted for coke making which is environment friendly method.
- The emission standard specified in the Environmental Clearance, under Specific condition (iii) for stack emission has been followed.
- To reduce the SPM, non recovery type technology is being used. The coal is being charged inside the oven under negative pressure for 66 hours in a temp of 950 1200 °C as a result the volatiles evolved during coal carbonization is being combusted completely in presence of controlled quantity of air so emission of any particulate matter is very low. The stack height is 70Mt from GL. The emission from all stack are much less than 50mg/Nm3 of SPM.
- Regular stack monitoring is done by registered third party. Online stack monitoring system is also installed in all 8 chimney.
- The Avg PM (month wise) data is as follows:

STACK PM Level (mg/Nm3): By Third party

Month	PM (6% Co2 (V/V))
Oct	34.75
Nov	36.25
Dec	26.6
Jan	28.5
Feb	19.75
Mar	33.25
AVG	29.85

STACK PM Level (mg/Nm3) : As per Opacity Meter

	PM
Month	
Oct	26.375
Nov	32.625
Dec	35.5
Jan	37.333
Feb	33.167
Mar	33.31
AVG	33

iii.	Continuo	us	stack	monit	oring	facilities	for	all	tŀ	he	major
	stacks	and	adequate	air	pollution	control	systems	shall	be	provided	to
	control	air	emissions	within	100	mg/Nm3	and	reports	submitte	ed to	the
	Ministry's Regional Office at the Bhubaneswar, WBPCB & CPCB.										

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter# F. No. J-11011//284/07- IA II (I)

Period -October 2017 - March 2018

Com

- On-line stack monitoring, the Opacity meter has been commissioned in all Chimney.
- Regular stack monitoring is done by registered third party.

Online Stack Emission (AVG Data)											
Downwater	Std (mg/ Nm3)	LOCATIONS									
Parameter		Chimney 1AB	Chimney 1 CD	Chimney 2 AB	Chimney 2 CD	Chimney 3 AB	Chimney 3 CD	Chimney 4 AB	Chimney 4 CD		
PM	50	20.5	29.16	37	29.9	17.5	43.8	37.16	29.16		

iv. shall be **Fugitive** from handling emissions coal plant controlled water. Dry shall be installed sprinkling fogging system at In-plant like filters, transfer control the points. measures bag de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources including material handling areas and material transfer points.

Com

- Besides the continuous water sprinkling at coal handling plant and all transfer point; the Dust Suppression System with Dry Fogging (DF) has been commissioned. In Wagon Tippler, Coal crusher unit and all the coal transfer points the DF and dust suppression system is operational.
- Dry fog system for coal and coke handling to restrict particulate emission to within 10 mg per cu m have been installed. The system has been installed at Wagon tippler unit, coal crusher unit, Coal / coke transfer points like Junction House # 5 (Cl#7 belt discharge pt., CL#8 belt receiving pt.); Junction House # A (WCK#1, 2 belt discharge pt. WCK#3 belt receiving pt.); Junction House # B (WCK#3 belt discharge pt. RCK#1, CK#1 belt receiving pt.); Junction House # C (WCK#5, 6 belt discharge pt. CK#7 belt receiving pt.); Junction House # D (WCK#7, RCK#3 belt discharge pt. CK#1 belt receiving pt.); Screen House. In last six month 5 numbers of DF points have been constructed in coal handling area at Junction House # 1, 2 & 2A. Regular maintenance is being done for making this system effective



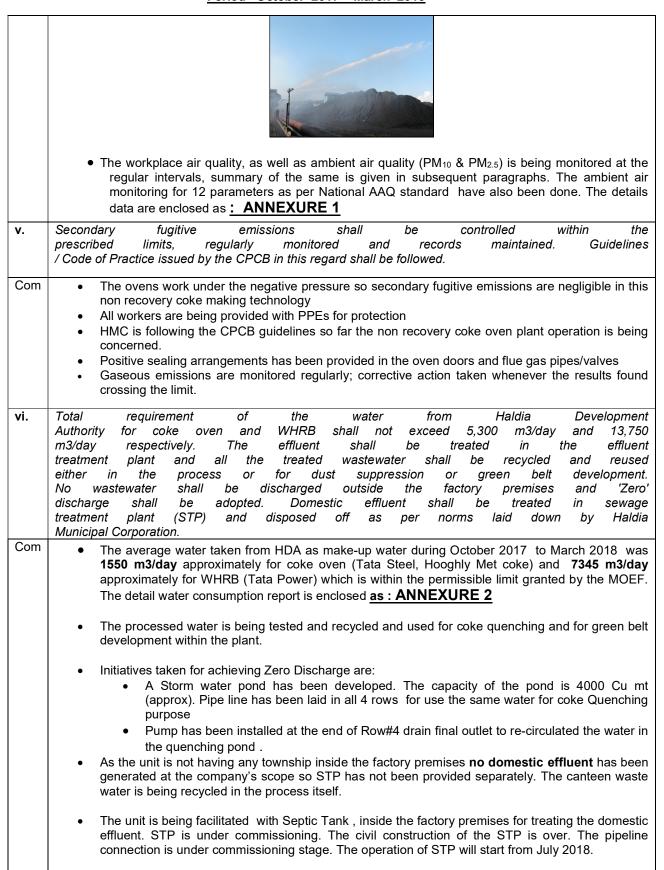


- More than 2.5 Kilometers of the road inside the material handling area has been paved to reduce the dust generation. The total coal yard (area of 25000 sq. Mt.) has also been concreted in order to prevent the dust generation.
- Movable water tanker with sprinkling arrangement is used for water sprinkling purpose in the road within factory and in the periphery area and also the mechanised Mobile Vacuum Cleaning system is being used regularly for arresting the fugitive emission
- All around the stock yard the boundary wall has been constructed to restrict the dust flowing outside the factory. The average height of the wall is 5 mt.
- 30 numbers of the "Rain Gun Water Sprinklers" have been installed in the coal yard to prevent the generation of fugitive emission from the coal heap. These sprinklers can rotate at 360° and can spray the water at a radius of 15 meter. The height of the sprinklers are approx 2.6 mt.

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter# F. No. J-11011//284/07- IA II (I)

Period -October 2017 - March 2018



M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia
Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter#

F. No. J-11011//284/07- IA II (I)

Period –October 2017 – March 2018

vii.	Permission for the drawl of water from Haldia Development Authority shall be obtained and recommendations implemented.
Com	HMC is purchasing the water from M/S Haldia Water Management Limited . An agreement between Haldia Development Authority and HMCPCL had taken place on 01 March 2007 , Ref no: 04AA 789559
viii.	Coal and coke fines shall be recycled and reused in the process. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner. The waste oil shall be properly disposed off as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.
Com	 Coal fines are reused and coke sludge is being sold (100%) to the coke briquette manufacturer for using as industrial fuel. The waste oil is being sent to the authorized re-processor. The oil soaked jute/cotton waste generated from the process is being incinerated in the coke oven batteries and burnt at the temp of 1000 - 1200 °C for 66 hours The used oil generated from the process is being sent to authorized reprocessor The organisation has taken special initiative to reduce solid waste generation by reducing the oven door consumption. The door castable (refractory bricks) material is being now electrically preheated as a result the door castable life has been increased and refractory brick waste generation has been reduced over the years. The ceramic blankets are being disposed to the authorized TSDF.
ix.	All the environment management measures given in the EIA/EMP shall be implemented and complied with.
Com	 Implementation of protection measures as indicated in the REIA are implemented. Online stack monitoring systems are being commissioned. For dust suppression DF system has been installed. Acoustic enclosures / barriers / shields are being used to reduce noise, providing the personal protective equipments like ear plugs/ muffs etc are also being provided. As the batteries are operating under negative pressure, no flames are visible outside the battery and the temperature in the battery area remains > 40 deg C (avg). All the workers working at battery area are being provided with adequate PPEs like Fire registrant jacket, nose musk etc.
X.	As proposed, green belt shall be developed in 27 % area as per the CPCB guidelines in consultation with DFO.
Com	 Nearly 18.6 hector area is being considered as Green belt. Total 31750 number of trees are surviving as on date under Tata Steel scope. Approximately 3000 trees are existing within Tata Power scope which adds another 1.4 hector area. Total Green Belt area is approximately 26% of the total 72.5 hector plant area. The areas where tree plantation are not feasible, and also not required to be paved, are being covered with grass, hedges and low bushes with flowering trees for beautification and to avoid soil erosion. The details of the trees planted are given below. Every year plantation done in available space. The detail plantation done till date is enclosed as ANNEXURE: 4

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia
Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter#

F. No. J-11011//284/07- IA II (I)

Period –October 2017 – March 2018

B.	GENERAL CONDITIONS
i.	The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government.
Com	Complied.
ii.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
Com	EC for Expansion of Coke Oven Plant from 1.6 MTPA to 2.2 MTPA has been received on 23rd February, 017 vide F. No. J-11011//284/2007- IA II (I) but as on date no expansion project work has been started. The plant is running at 1.6 mtpa capacity only. It is being ensured that the compliance on EC will be submitted to MOEF once the expansion will take place.
III.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The West Bengal Pollution Control Board (WBPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
Com	Complying all the conditions stipulated by WBPCB.
Com	Ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the WBPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with WBPCB and data submitted to the Ministry's Regional Office at the Bhubaneswar, WBPCB & CPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time. • One Ambient Air Quality monitoring station within the plant has been commissioned. • Different areas have been identified within the factory premises where Ambient Air Quality is being tested at a regular basis. Beside this the Work zone air quality also being tested at a regular basis by the certified 3rd party accredited by CPCB. The summary is enclosed. ANNEXURE 1 • All the tests being carried out by third party registered by CPCB • Regular noise monitoring also been done by the accredited 3rd party. • The half yearly data are being submitted to Ministry's Regional Office at the Bhubaneswar, WBPCB, Haldia office.
v.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). • The noise level inside the plant has been recorded between specified limit • The control measures such as; silencers, enclosures, hoods, rubber pads, have been provided at the appropriate places in the existing plant. The work areas where noise levels are high, earplugs and earmuffs have been provided to reduce the noise exposure. • The detail report is enclosed as ANNEXURE - 3
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia
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F. No. J-11011//284/07- IA II (I)

Period -October 2017 - March 2018

Com	 PME (Periodical Medical Examination) has been done for 95% of company employees in FY'18. Records are maintained at the Occupational Health Centre. Health check up for contractors persons are conducted regularly during the time of the renewal of the respective gate pass. 100% checkup happened for contractor employees and records are being maintained at the OHC. 									
vii.	All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) of CPCB issued for the steel plants shall be implemented									
Com	 The CREP has been implemented by Tata Steel - JSR works since this unit is the stand alone coke making unit only. The coke is being transferred to JSR H Blast furnace for making the steel. The integrated steel work is at Jamshedpur The company follows the Tata Steel CSR policy From FY'18 this division of Tata Steel works on "Focus Area" approach by adopting Villages / Panchayats / Home so that the Socio – economic development can be visible 									
viii.	The company shall undertake eco-development measures including community welfare measures in the project area.									
Com	 The local people nearly 256 people as permanent employee and over 1000 as contractual employees are being employed by the company. As a part of welfare activity, 4 nos of primary schools, mainly for BPL people, have been considered. Some infrastructural development like making toilets for girls, boundary wall around the school, electrification jobs, school furniture etc are being done. Four number of Drinking Water Projects completed at four different schools namely Bamunya High School, Kasimnagar school, Ekterpur primary school of Mahishadal Block & Gobindpur School of Sutahata block. The Total Budget allotted for CSR activity FY'18 is Rs. 15 Lakhs for Tata Steel Ltd. 									
	D POTOTING STATE AND THE STATE									
ix.	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.									
Com	 A Storm water pond has been developed. The capacity of the pond is 4000 Cu mt (approx). During rain, the roof water from all building like ADM building / Store / Laboratory / pump house are collected in a common storm water drain and this water is collected in the storm water pond. Four number of pumps were commissioned for pumping to QT. Pipe line of 3 KM has been laid in all 4 rows for using this water for coke quenching and other purposes like gardening, water spraying in the road, water sprinkling system etc. 									

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter# F. No. J-11011//284/07- IA II (I)

Period -October 2017 - March 2018





		A STATE OF THE STA	A ALL AND THE REAL PROPERTY AND THE PARTY AN		. *			
x.	Proper programm	house es shall be taken	keeping up.	and	adequate	occup	oational	health
Com								
xi.		-1	environmental	manager		ell to	carry	out
	various control of	management Senior Executive	and monitor	ring function	ons shall	be set	up unde	er the
Com	qua the	lified designated unit, to supervis	Division have ar employee at a Se the environme nates and provid	enior Manage ental activities	r level, reports and environ	s directly to the mental mana	ie General Ma igement progi	nager of rammes.

Tata Steel Ltd., HMC Division have an Environmental Management Section (EMS) with a permanent qualified designated employee at a Senior Manager level, reports directly to the General Manager of the unit, to supervise the environmental activities and environmental management programmes. This section co-ordinates and provides necessary services on environmental issues of the entire unit. This section is responsible for implementation of Environmental Management Plan and interaction with the environmental regulatory agencies, reviewing policy and planning and mitigates all statutory compliances. This section interacts with State Environment Department, Ministry of Environment & Forests (MoEF), Central Pollution Control Board (CPCB), West Bengal Pollution Control Board (WBPCB) and other environment regulatory agencies.

The major responsibilities of the EMS includes:

- Obtaining Consent from WBPCB.
- Environmental monitoring
- Analysis of environment data, reports, preparations and transmission of report to statutory authorities, Corporate cell etc.
- Compliance with guidelines and statutory requirements.
- Coordination with statutory bodies, functional groups of the unit, Corporate Environment Management Cell
- Interaction for evolving and implementation of modification programmes to improve the availability / efficiency of pollution control devices / systems.
- Environmental Appraisal (Internal) and Environmental Audit.

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia
Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter#

F. No. J-11011//284/07- IA II (I)

Period –October 2017 – March 2018

	The Comparete Environment Management Cell of Tata Steel Jameshadnur works handed by Chief
	The Corporate Environment Management Cell of Tata Steel, Jamshedpur works, headed by Chief – Environment and respective Heads – Environment also monitors and supervises the environmental activities of the HMC division at a regular basis.
	Tata Power has a separate Environment Management Cell for monitoring environmental activities and statutory compliances in terms of power generation and distribution
xii.	Adequate funds shall be allocated towards the capital cost and recurring cost/annum environmental pollution control measures and utilized judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
Com	In HMC, Separate Fund for the FY'18 has been allocated for carrying out continuous water spraying & sprinkling system, mobile vacuum cleaning system, within the plant area for controlling dust, installation & regular maintenance of DF system to control fugitive emission, installing Online ambient air quality monitoring system etc. Fund for Green Belt development and CSR activity have also being allocated which are used in a planned manner.
xiii.	The Regional Office of this Ministry at Bhubaneswer / CPCB / WBPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.
Com	 Environment Audit Report FY 16 –17 had been submitted to WBPCB on 07 September 2017 Six monthly environmental performance monitoring Report for March 2017 – September 2017 has also been submitted to MOEF, Regional Office, Bhubaneswar via email and hard copy has also been couriered. The same report has been submitted to WBPCB office also.
xiv.	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
Com	 All required information has been intimated to WBPCB while obtaining Consent to Operate. The validity of Consent to Operate is up to 31 May 2022.
xv.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the W. B. Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region
	of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhuvaneswar.
Com	 Communication regarding grant of environment clearance were given to the community on 08.03.2008 through newspaper advertisements. Details of which are given below. Financial Express – (English Adv.) / Aajkal – (Bengali Adv.) dated 08.03.2008.
	 Communication regarding grant of environment clearance for expansion project of Coke Oven Plant from 1.6 MTPA to 2.2 MTPA vide F. No. J-11011//284/2007- IA II (I) were published in the newspapers (TOI, Business Standard, The Telegraph – Kolkata etc) dated 24 February 2018. The copy of the same is enclosed for reference. The compliance of the same was informed to MoEF (Regional Office – Bhubaneswar) through letter dated 11.03.08 by post.

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter# F. No. J-11011//284/07- IA II (I)

Period -October 2017 - March 2018

AMBIENT AIR QUALITY SUMMERY REPORT

ANNEXURE - 1

Name: M/s. Tata Steel Ltd., Hooghly Met Coke Div. Address: HFC Complex, Patikhali, Haldia, Purba Medinipur

Ambient Air Quality: (AVG VALUE) (October 2017 - March 2018)

		LOCATIONS								
Parameters	Std (μg/m³)	Near OHC / Canteen	Near Rest Room	Near LCR#1	Near Electrical Sub Station	CCR	Near Simplex Gate	Near Engineering Store	Near Patikhali Gate	
PM ₁₀	100	86	46	64	53	55	50	65	58	
PM _{2.5}	60	40	28	28	29	37	27	39	59	
SO2	80	6.1	8.2	8.6	4.5	11.5	6.9	7.1	10.5	
Nox	80	32.2	30.7	33.4	33.2	41.6	32.2	29.2	42.5	

Work Zone Air Quality: Avg. value

LOCATION	SPM		RPM		SO2		NO2		
	STD.	ACTUAL	STD.	ACTUAL	STD.	ACTUAL	STD.	ACTUAL	
Wagon Tippler	10 mg/m3	2.56	5 mg/m3	1.35	5 mg/m3	0.078	6 mg/m3	0.032	
Crusher house	10 mg/m3	0.88	5 mg/m3	0.31	5 mg/m3	0.063	6 mg/m3	0.023	
Junction House # 8	10 mg/m3	2.8	5 mg/m3	1.3	5 mg/m3	0.010	6 mg/m3	0.038	
Blending Bunker	10 mg/m3	2.78	5 mg/m3	1.43	5 mg/m3	0.074	6 mg/m3	0.035	
End Bench of Row#1	10 mg/m3	2.84	5 mg/m3	1.54	5 mg/m3	0.09	6 mg/m3	0.041	
End Bench of Row#2	10 mg/m3	2.04	5 mg/m3	0.41	5 mg/m3	0.011	6 mg/m3	0.094	
End Bench of Row#3	10 mg/m3	0.98	5 mg/m3	0.48	5 mg/m3	0.083	6 mg/m3	0.037	
End Bench of Row#4	10 mg/m3	6.75	5 mg/m3	2.93	5 mg/m3	0.010	6 mg/m3	0.043	

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter# F. No. J-11011//284/07- IA II (I)

Period -October 2017 - March 2018

ANNEXURE -2

<u>WATER CONSUMPTION</u> Period : October 2017 – March 2018

Name: M/s. Tata Steel Ltd, Hooghly Met Coke Div. Address: HFC Complex, Patikhali, Haldia, Purba Medinipur

MONTH	HMC (CUBIC. MTR) Per Month	TPC (CUBIC MTR.) Per month	WATER CONSUMED PER DAY (HMC)	WATER CONSUMED PER DAY (TPC)	TOTAL WATER CONSUMED (CUBIC MTR/Day)
Oct-17	35392	208,808	1142	6736	7877
Nov-17	36145	212,155	1205	7072	8277
Dec-17	52427	222373	1691	7173	8865
Jan-18	69781	204031	2251	6582	8833
Feb-18	42574	234426	1521	8372	9893
Mar-18	46123	252177	1488	8135	9623

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia

Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter# F. No. J-11011//284/07- IA II (I)

Period -October 2017 - March 2018

AMBIENT NOISE SUMMERY REPORT (DAY & NIGHT)

ANNEXURE -3

<u>Period</u>: (October 2017 – March 2018)

Name: M/s. Tata Steel Ltd, Hooghly Met Coke Div. Address: HFC Complex, Patikhali, Haldia, Purba Medinipur

AMBIENT NOISE SUMMERY REPORT

DAY TIME (Limit = 75 dBA)	NIGHT TIME (Limit = 70 dBA)
,	,
59.3	53.7
79.5	78.8
84.3	80.1
60.5	55.3
59.8	53.6
61	54
70	62.8
71.5	68.2
	(Limit = 75 dBA) 59.3 79.5 84.3 60.5 59.8

M/s Tata Steel Ltd, Hooghly Met Coke Division, Haldia
Compliance to Conditions stipulated in Environmental Clearance for Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal from MoEF, New Delhi on 29th January, 2007 vide letter#

F. No. J-11011//284/07- IA II (I)

Period –October 2017 – March 2018

Details of Tree Plantation at HMC Site:

ANNEXURE - 4

SI.	Location	Existing numbers
No.		
1	Tippler Side along the boundary wall	1326
2	Patikhali canal - both side	1423
3	Wagon Loader - Across boundary wall	3253
4	Simplex Gate	1558
5	Back side of Scrap yard	350
6	Coke Yard	2053
7	Central Avenue surrounding	1397
8	CCR surrounding area	1252
9	Patikhali Main gate to watch tower & east boundary wall	465
10	Near TPC ADM building	250
11	Hooghly Road	187
12	Boiler surrounded area	1700
13	Back side of new ADM building	885
14	Western Avenue Road both side, south side wall and in front of CCSS	1500
15	Around Storm water pond	980
16	"Green Haldia : Clean Haldia" project	1000
17	Trees planted near weigh bridge / across the road at the southern part of the plant	557
18	Boiler surrounding area in all 4 rows	2300
19	Chimney surrounded area	1200
20	Row#2 and 3 Quenching surrounded area	3200
21	Back side of Canteen / OHC / rest room	900
22	Water Storage Tank surrounded area	418
23	End of CL#4 & Surrounding	223
24	South side boundary wall	1400
25	Plantation done by Tata Power	1975
	TOTAL	31722