

No. HMC/HAL/MOEF - ENV/ 03 - FY20

To
The Deputy Director (S)
Ministry of Environment, Forests & Climate Change
Govt. of India
Eastern Regional Office
A-3 Chandrashekharpur,
Bhubaneswar —751 023,
Orissa

30 November 2020

Dear Sir.

Sub: Six monthly Environmental Compliance Reports for the period

<u>April 2020 – September 2020 of</u>

Tata Steel Limited, Hooghly Met Coke Division - Haldia

Kindly find enclosed the Six Monthly Compliance Report (April 2020 – September 2020) for the conditions stipulated in Environmental Clearance to the Coke Oven Plant (1.6 MTPA) & WHRB (120 MW) at Haldia, East Midnapur, West Bengal by M/s Tata Steel Limited, Hooghly Met Coke Division, Haldia vide MoEF's letter# F. No. J-11011//284/07- IA II (I) dated 29/01/2008.

I would like to draw your kind attention that the Expansion project (EC received for Coke Oven Plant from 1.6 MTPA to 2.2 MTPA of M/S Tata Steel Ltd., at Haldia, East Midnapur, West Bengal from MoEF&CC, New Delhi on 23rd February, 2017 vide F. No. J-11011//284/2007- IA II (I))) for of the existing coke oven plant has not yet started because of final approval from Board is still pending. We are operating the plant at 1.6 MTPA capacity only and we have not applied for NOC for "Consent to Establish" from SPCB for the expansion project.

The soft copy of the compliance report has been already sent to you via email and the hard copy is enclosed herewith for your perusal please.

As the new project has not yet started so enclosing herewith also the DATA SHEET for FY21 mentioning the same for your reference.

The compliance reports will be uploaded to the company's website for public also. We trust the information furnished is in line with your requirement.

Thanking you,

Yours faithfully,

SKSETH

General Manager Tata Steel Ltd.

Hooghly Metcoke Division

Haldia

TATA STEEL LIMITED
Hooghly Met Coke Division

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 -April 2020 - September 2020

A.	SPECIFIC CONDITIONS			
i.	Proper and full plant using heat red flue gas shall be discharged	utilization of covery steam genera d into the air.	coke oven tors (WHRB) shall	gases in power be ensured and no
Com	chambers made of heat for carboniza charged by admitti generate electric po Presently the plant project of additional	refractory. The Carbonization is supplied by coming air into the chamber. Tower by generating steam is operating at rated capal capacity has been taken September 2020 total col	tion of coal takes place a bustion of volatile matter the hot flue gas free from in waste heat recovery bo pacity of 1.29 MTPA coke up	ven batteries consisting of at 1100 to 1250° C and the ers evolved from the coal volatile matters is used to oiler. production. No expansion DMT (Dry Metric Ton) and
	Month	Coke Production (Tonnes) Dry	POWER GENERATION (In MU)	WHRB Availability (%)
	Apr-20	77,782	37.54	91.5
	May-20	76,680	30.711	82.1
	Jun-20	109,025	46.568	90.7
	Jul-20	110,980	55.419	92.4
	Aug-20	117,348	56.83	92.8
	Sep-20	117,580	55.12	85.4
	TOTAL	609,395	282.188	
	into 4 rows. 11 nur nos. of blocks of 13 WHRBs connected WHRBs and 2 no. of plant. Stacks are de	mbers of ovens are forming to ovens each is now connected one no. of combined so of stack. Total 8 nos of stack emission weter installed for measure	ng one block so each row ected to one no. of WHRI tack of 70 m height. So e acks and 16 nos of boiler <50 mg/Nm3 of particulat	se capacity) equally divided is having 8 nos of block. 2 B & subsequently 2 nos. of each row has 4 numbers of is are present in the entire e matter. for power generation and
II.	The prescribed notified vide notification complied with.	emission standards on no. GSR 46 (for coke E) dated 3rd Febr	oven plants as ruary, 2006 shall be

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

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Com	 This is the unit established after the notification of 2006 published, and as per notification no. GSR 46(E) 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. WHRB used as PCU. The coal is being charged inside the oven under negative pressure for 70 hours (avg. in a temp of 950 – 1100 °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. Online stack monitoring system is also installed in all 8 chimney. Regular stack monitoring is done by registered third party also.
iii.	Continuous stack monitoring facilities for all the major stacks and adequate air pollution control systems shall be provided to control air emissions within 100 mg/Nm3 and reports submitted to the Ministry's Regional Office at the Bhubaneswar, WBPCB & CPCB.
Com	 On-line stack monitoring, the Opacity meter has been commissioned in all Chimney. The opacity meter reading to be connected to CPCB and WBPCB server will be done by FY21 Regular stack monitoring is done by registered third party. The Stack emission (avg) report for last six month (April'20 – Sept'20) enclosed as ANNEXURE - 2.
iv.	Fugitive emissions from coal handling plant shall be controlled by sprinkling water. Dry fogging system shall be installed at all the transfer points. In-plant control measures like bag filters, 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.); Screen House. In last six month 5 numbers of DF points have been constructed in each handling area at Junction House # 1, 2,8,30 Regular maintanance is being



done for making this system effective

More than 2 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

constructed in coal handling area at Junction House # 1, 2 & 2A. Regular maintenance is being

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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.



- The workplace air quality, as well as ambient air quality (PM₁₀ & PM_{2.5}) is being monitored at the regular intervals, summary of the same is given in subsequent paragraphs. The ambient air monitoring for 12 parameters as per National AAQ standard have also been done. The details data are enclosed as : ANNEXURE 1
- ٧. Secondary fugitive emissions shall controlled within the prescribed limits. regularly monitored and records maintained. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.

The ovens work under the negative pressure so secondary fugitive emissions are negligible in this Com non recovery coke making technology

All workers are being provided with PPEs for protection

- HMC is following the CPCB guidelines so far the non recovery coke oven plant operation is being concerned.
- Positive sealing arrangements has been provided in the oven doors and flue gas pipes/valves

Gaseous emissions are monitored regularly; corrective action taken whenever the results found crossing the limit.

vi. Total requirement of the water from Haldia Development Authority for coke oven and WHRB shall not exceed 5.300 m3/day and 13,750 m3/day respectively. The effluent shall be treated in the effluent treatment plant and all the treated wastewater shall be recycled and reused either in the process dust or for suppression or green belt development. No wastewater shall be discharged outside factory premises and 'Zero' discharge shall be adopted. Domestic effluent shall be treated in sewage treatment plant (STP) and disposed as per norms laid down bv Haldia Municipal Corporation.

Com The average water taken from HDA as make-up water during April '20 to Sept '20 was 1317.82 m3/day approximately for coke oven (Tata Steel, Hooghly Met coke) and 5341.57 m3/day approximately for WHRB (Tata Power) which is within the permissible limit granted by the MOEF. The detail water consumption report is enclosed as: ANNEXURE 3

> The processed water is being tested and recycled and used for coke quenching and for green belt development within the plant.

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

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- Initiatives taken for achieving Zero Discharge are:
 - A Storm water pond has been developed. The capacity of the pond is 4000 Cu mt (approx). Pipe line has been laid in all 4 rows for use the same water for coke Quenching purpose
 - Pump has been installed at the end of Row#4 drain final outlet to re-circulated the water in the quenching pond .
- As the unit is not having any township inside the factory premises no domestic effluent has been generated at the company's scope so STP has not been provided separately. The canteen waste water is being recycled in the process itself.
- STP has been commissioned inside the plant and phase wise all domestic effluent is being treated in this STP. The outlet water is being stored at the storm water pond and finally used for coke quenching



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 Service Pvt Limited . An agreement between
Com	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 in the process and coke fines are sent to JSR for re-using at their end. The empty oil drum and oil filters and oil soaked jute/cotton waste generated from the process is being sent to the authorized re-processor (TSDF).
	 The used oil generated from the process is being sent to authorized re-processor
	 The organisation has taken special initiative to reduce solid waste generation by reducing the oven door consumption. The door cast-able (refractory bricks) material is being now electrically preheated as a result the door cast-able life has been increased and refractory brick waste generation has been reduced over the years.

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 -April 2020 - September 2020 The ceramic blankets are being disposed to the authorized TSDF. FORM 10 1st Copy WEST BENGAL WASTE MANAGEMENT LIMITED MANIFEST FOR HAZARDOUS AND OTHER WASTE

THAT STEEL LTD. Hery mut take.

THAT STEEL LTD. Hery mut take.

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TATA STEEL CIP

HOCKHEN METTERE HALDIA

JURGA MEDINIPORE HALDIA

LIVE STEEL CIP GENERAL TO SEE THE S Sender's name and mailing address (including Phone No. and e-mail) 74/25 (HW) -2504/2006 (PI) B 00 4825 N. K. Company. JR Industrial Estade, Hisran Malla Read. VIII - Bangaran. P.O-Rosapunja. Ps. Betrapun. 24995 2 Sender's authorization No 3 Manifest Document No 3. Manifest Document No. Transporter's name and address (Including Phone No. and Email) (Truck/Tanker/Spec (Truck/Tankar/Spec at Vehicle) 1-MD(E)/XXXX 6. Transporters' registration No WB 91 8 8196 ter's registration No. : 4B29B 6030 W B 41 E 818 6 Receiver's name and malling address (including Phone No. and e-must) B Receiver's authorization No 9. Receiver's authorisation no Waste description Total quantity
No. of Containers 1890 Gt m' or MT 12 Physical form OD Non 12. Physical form (Solid / Semi-Solid / Sludge / Only / Tarry/Slurry / Lio. HC3CC ... CONT Co ...

How does the no covers of the configurate for fally and account described above to procer objects placed, named and come is an intellect above to an especial requirement appeared, making and on the second of the configuration of the confi Thomas of oil Special handling instructions and additional information Sender's Certificate I hereby declare that the contants of the consignment and accurately described above by proper shipping and are categorised, pecked, marked, and labelled, an in all respects in proper conditions for transport by according to applicable national government regulations. Almala Stata Roy. 07062020 Month Day Year Transporter acknowledgement of receipt of Wastes Name and stamp Sgratu 15 Transporter acknowledgment of receipt of Westes 09062020 Receiver's certification for receipt of flucurdous and other 07012020 Name and stamp. Signature 0706202 16. Receiver's certification for receipt of hazardous and other waste given the EIA/EMP the management measures ix. environment shall be implemented and complied with. Implementation of protection measures as indicated in the REIA are implemented. Online stack Com 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 equipment 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. 27 developed in area as green belt shall be X. proposed. per the CPCB guidelines in consultation with DFO. Nearly 18.50 hector area is being considered as Green belt. Total 29000 number of trees are Com surviving as on date under Tata Steel scope (nearly 5000 nos of trees were uprooted during the cyclone "Amphan". Replantation is under progress. Approximately 6000 trees are existing within

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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#

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	Terrou April 2020 September 2020
	Tata Power scope which adds another 1.45 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.
В.	GENERAL CONDITIONS
i.	The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government.
Com	All CTO conditions are being Complied
īi.	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, 2017 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. No "Consent to Establish" has been applied from WBPCB till date. It is being ensured that the compliance on EC will be submitted to MOEF once the expansion will take place
fil.	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. E.g. the stack emission standard prescribed by WBPCB is 50mg/Nm3 which is being maintained in last six months
iv.	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.
Com	 Different areas have been identified within the factory premises where Ambient Air Quality is being tested at a regular basis. 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 by the certified 3rd party. The summary is enclosed. ANNEXURE 1 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. The instruments used for ambient air quality monitoring by the accredited 3rd party is being calibrated time to time and the calibration certificates are collected from the party.
y.	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

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	standards viz. 75 dBA	prescribed (day time) and	under E. I 70 dBA (night	nvironmental time).	(Protection)	Act,	1986 F	Rules,	1989
Com	The The the and	noise level ins control measi appropriate pla earmuffs have	side the plant hures such as; saces in the exi	as been record silencers, enclo sting plant. The d to reduce the	ed between sp sures, hoods, work areas w noise exposure	rubber pad here noise	ls, have be		
vi.	Occupations be done on			rveillance naintained as p	of er the Factorie	the s Act.	workers	3	shall
Com	Reconomic Heat	cords are main dition the healt alth check up for respective gate	tained at the C th check-up for or contractors e pass.	Occupational He FY21 not yet s persons are co	en done for 99 ealth Centre. D tarted. nducted regula ees and record	ue to the o	the time of	VID pand the renew	lemic
vii.	Responsibili		ecommendation Environmental mented	ns me Protection	ntioned (CREP) c	in of CPCL	the 3 issued	200	orate the
Com	is the The Pres	he stand alone company follo sently Tata St that the Socio en up by the u	e coke making of the coke making of the coke works on "For economic de nit initially for Coke was a coke making the coke makin	unit only. deel CSR policy focus Area" ap velopment can CSR activity.	proach by adop be visible. Con because of the	oting Village	es / Pancha of Drinking \	ayats / Ho Water Proj	me
viii.	The including co	company mmunity welfa	shall are measures ir	underta the project are		co-develop	ment	meas	sures
Com	The emp As a Son elected Till active	local people bloyees are be a part of welfane infrastructuctrification jobs now total 19 novity till was near	e nearly 256 ping employed but a cativity, the ral developme, school furnitudes of DWP hardy is Rs. 90	people as per by the company primary schoon to like making are etc are bein as been commit Lakhs	manent emplo ols, mainly for l toilets for girls	BPL people, boundary	e, have bed wall arou	en considend the sc	ered. chool,
ix.	The structures besides reci	company to harve harging the gro	shall st the re ound water tab	develoj ain water le.	rain for utilizati		vater the le	harve ean se	esting eason
Com		(approx). / pump ho the storm	During rain, the buse are collect water pond. For g and other pure	e roof water fro ted in a comm Pipe line has b	oped. The cap m all building lil on storm water een laid in all 4 dening, water s	ke ADM bu r drain and 4 rows for	ilding / Sto this water using this	re / Labor is collect water for	ratory ted in coke
x.		house s shall be take	keeping n up.	and	adequate	00	cupational	h	nealth
Com	_	arate agency						75	

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

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- For storage of waste "COLORED BINS" have been provided at various location
- Impervious pit has been constructed for storing the hazardous waste
- Mobile vacuum cleaning machine is also being used at a regular interval for evacuating the dust particles
- TPM initiatives has been started by the shop floor employees in terms of improving the house keeping at shop floor. Identifying KAIZENS and conducting 1s & 2s has been initiated.
- · Regular Housekeeping Audit is being conducted to improve the housekeeping in the plant

ΧĬ. separate environmental management cell to out carry various management and monitoring functions shall be set uр under the control of Senior Executive.

Com

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.

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 allocatedtowards the capital cost and recurring cost/annum environmental pollution control and measures utilized ludiciously to implement the conditions stipulated the Ministry Environment Forests well and as as the State Government. funds The provided shall not be diverted for any other purpose.

Com In HMC. Separate Fund 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 and maintenance of Online ambient air quality monitoring system, monitoring the environment parameters by third party regularly etc. Fund for Green Belt development and CSR activity have also being allocated which are used in a planned manner.

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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 Statement FY 20 had been submitted to WBPCB on 22 September 2020 Six monthly environmental performance monitoring Report for October 2019 – March 2020 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
	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. o 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 compliance of the same was informed to MoEF (Regional Office – Bhubaneswar) through letter dated 11.03.08 by post.

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)

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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

		LOCATIONS									
Parameters	Std (µg/m³)	Near OHC / Canteen	LCR#1	Near CCR	In-front of LMC	Rest Room	Near Simplex Gate	Near HMC Store	Near Patikhali Gate		
PM ₁₀	100	52	67	56.8	55.90	69	55	30.4	58		
PM _{2.5}	60	23	35	24.4	30.70	32	29	18.2	34		
SO2	80	6.8	11.4	7.5	7.80	7.2	5.3	8.2	6.7		
Nox	80	36.6	40.2	20.7	31.90	39.6	36.8	20.6	41.8		

Ambient Air Monitoring for 12 Parameters

(CPCB, Emission Regulation (Part III), IS: 5182 (Part – 4) 1999, IS: 5182 (Part – 2), 2001, IS: 5182 (Part – 6), 1975, Reaffirmed 1998, UV Photometric Method, Non-Dispersive Infrared Spectrometry Method, Soxlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method & UV Photometric Method for Ozone monitoring)

LOCATION – 1 : Logistics Management Centre

	Concentration (μg / m³)									Concentra tion (ng / m³)	Concentr ation (ng / m³)	Concatior / n
Parameters	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	Ozone (O3)	со	Benzo(a) Pyrene	As	N
Limits	100	60	80	80	1	5	400	180	2	1	6	2
Result	55.9	30.7	7.8	31.9	< 0.01	< 4.2	17.4	28.5	0.83	< 0.5	< 1.0	<5

LOCATION - 2 : Simplex Gate surrounding neighbourhood

			Concer	ntration ($(\mu g / m^3)$				Concentra tion (mg / m³)	Concentra tion (ng / m³)	Concentr ation (ng / m³)	Conc atior
Parameters	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	Ozone (O3)	со	Benzo(a) Pyrene	As	N
Limits	100	60	80	80	1	5	400	180	2	1	6	2
Result	60.2	43.3	7.8	28.6	< 0.01	< 4.2	<10.0	<20.0	0.81	< 0.5	< 1.0	< 5

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 -April 2020 - September 2020

ANNEXURE -2

STACK SUMMERY REPORT

?

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

STACK PM Level (mg/Nm3): Online- Opacity meter avg reading

	Chimney 1AB	Chimney 1CD	Chimney 2AB	Chimney 2CD	Chimney 3AB	Chimney 3CD	Chimney 4AB	Chimney 4CD
Apr-20	32.08	27.32	23.47	31.36	30.81	17.68	19.07	22.86
May-20	31.78	26.17	21.75	28.91	30.55	17.59	15.93	19.93
Jun-20	29.32	28.5	19.21	30.41	31.19	26.5	12.4	23.4
Jul-20	48.17	49.8	31.21	48.2	46	45.08	35.5	40.5
Aug-20	47.44	46.2	45.61	48.64	30.6	48.6	35.7	45
Sep-20	30.6	47.56	40.31	28.9	38.7	42	45.95	48.7

Stack monitoring - Manual sampling by registered third party

Date of sampling	Location	Particulate Matter	Sulphur di- oxide (mg/ Nm³)	NOx (mg/ Nm³)
29.06.2020	Chimney 4AB	32.2	330.8	178.6
29.06.2020	Chimney 3CD	44.9	367	183.7
30.06.2020	Chimney 1AB	33.1	319.6	168.8
30.06.2020	Chimney 3AB	48.6	387.1	192.6
01.07.2020	Chimney 2CD	48.2	411.9	197.2
20.07.2020	Chimney 4CD	46	325.7	182.2
20.07.2020	Chimney 3CD	40.4	261.4	196.2
22.07.2020	Chimney 2AB	49.2	286.7	178.4
18.08.2020	Chimney 3 AB	30.6	295.5	172.3
17.08.2020	Chimney 3 CD	48.6	353.1	178.7
19.08.2020	Chimney 4 AB	35.7	310.5	188.6
16.09.2020	Chimney 1 AB	30.6	265.7	168.5
22.09.2020	Chimney 2 CD	28.9	324.1	168.2
14.09.2020	Chimney 3 AB	38.7	293.5	201.4
16.09.2020	Chimney 4 CD	48.7	283	181.4

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 -April 2020 - September 2020

ANNEXURE

WATER SUMMERY REPORT

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

MONTH	WATER CONSUMED PER DAY (HMC)	WATER CONSUMED PER DAY (TPC)	TSL (HMC) WATER CONSUMED (CUBIC MTR/MONTH)	TPC WATER CONSUMED (CUBIC MTR/MONTH)
April 2020	1059.90	6903.43	31797	207103
May 2020	972.93	4003.73	29188	120112
June 2020	1536.87	4969.80	46106	149094
July 2020	1702.58	5229.68	52780	162120
August 2020	1463.84	5226.48	45379	162021
September 2020	1170.81	5716.29	36295	177205

2

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 -April 2020 - September 2020

ANNEXURE -4

AMBIENT NOISE SUMMERY REPORT (DAY & NIGHT)

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

Location	Day Time Limit: 75 dBA	Night Time Limit: 70 dBA
Blending Bunker	63.7	61.9
Crusher House (Man-less area)	74.7	70.8
ОНС	52.1	40.7
ADM Building	53.7	43.4
Surrounding Community outside Patikhali Gate	54.8	43.2
Surrounding Community outside Simplex Gate	56.8	38.6

Ministry of Environment, Forest & Climate Change Eastern Regional Office BHUBANESWAR

PART-1

DATA SHEET

1. Project type

: Manufacturing of Metallurgical Coke

2. Name of the Project

Proposed Expansion of Coke Oven Plant

from 1.6 to 2.2 MTPA

3. Clearance/ Approval letter(s) No. & date :

F. No. J-11011//284/2007- IA II (I)

Dated 23 February 2017

Locations

a. District(s)

: East Medinipore

b. State(s)

: West Bengal

e. Latitudes/Longitudes

: 22°0′ 15″ N & 22°7′ 15″ N / 88°03′ 51″ E

and 88°11', 44" E

5. Address of Correspondence

 Address of concerned Head of Organization (with pin code and Telephone /telex/fax numbers) y Mr. S.K Seth

General Manager - Hooghly Metcoke

Division , Tata Steel Ltd.

Patikhali, P.O. Haldia Oil Refinery, Haldia,

Purba Medinipore Tel: 03224-251302 Fax: 03224-251305

b. Address of Head of project (with pin code and Telephone /telex/fax numbers) Email-ID Mr. 5 K Seth

General Manager - Hooghly Metcoke

Division, Tata Steel Ltd.

Patikhali, P.O. Haldia Oil Refinery, Haldia,

Purba Medinipore Tel: 03224-251302 Fax: 03224-251305

Email: sk.seth@tatasteel.com

6. Salient features

a. Of the project

Expansion of Coke Oven from 1.6 MTPA to 2.2 MTPA by commissioning a new row of Battery, capacity of 0.44 MTPA and enhancement of existing capacity by

0.16 MTPA.

b. Of the environmental management plans

The plant has proper pollution control measures like Dry fog system, water sprinklers, road swiping system etc. The plant has Greenbelt development plan to achieve 33% of greenbelt area, annual corporate social responsibility plan. Tata Steel Environment management cell manages all environment concerns along with local department. The unit will take

S. K. Seth
General Manager
TATA STEELLIMITED
Houghly Mat Coke Division
HALDIA



all mitigatory measures during construction of the project as mentioned in EIA report

7. Break up of the project areas (in ha)
Forest area

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: Not Applicable

Non forest area

Proposed project is of expansion within the approved 1.6 MTPA Coke production having an area of about 180 acres i.e. 72.5 hectare.

Total

8. Break up of the project affected population

Village wise details along with R & R package to be given

Number of oustees NA
Homestead Land Landless/
oustees
Artisans

SC, ST/ Adivasis Others

S. K. Seth
General Manager
TATA STEEL LIMITED
Hooghly Met Coke Division
HALDIA



9. Financial Details

Project cost as originally planned and subsequent revised estimates and the years of price reference

: Project yet to be started. Financial approval of board is under process

- b. Allocations made for environmental plans, with item wise & year wise break up
- Benefit cost ratio/internal rate of : return & the year of assessment
- d. Weather(c) includes the cost of environmental management as shown in (b) above
- e. Actual expenditure incurred on the environmental management plans so far

: Project Expenditure EMP Expenditure

0. Status of construction

- Date of commencement (actual and/ or planned)
- Date of completion (actual and/ or planned)
- c. Date of commissioning

Construction not yet started

11. Project process details

Components

Dates of
Construction Completion Commissioning

- Engineering and other project components
- Environment Management and Pollution Control components

Please attach a separate sheet, if required

Sulh

Date:

SIGNAKURSeth
General Manager
TATA STEEL LIMITED
Hooghly Met Coke Division
HALDIA