

MAHARASHTRA POLLUTION CONTROL BOARD

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Planet Cinema, Near Sion Circle, Sion (E),
Mumbai - 400 022

Consent No: Format 1.0/ BO/CAC-Cell/Amend/CAC- 4253

Date- 05/05/2014

To,

M/s. Amba River Coke Ltd.,
(Coke Oven Plant)
Geetapuram-Dolvi, Tal.Pen ,
Dist. Raigad.

Subject: Consent to 1st Operate for Expansion under RED category.

- Ref : 1. Consent to Establish is granted vide no. BO/RO(P&P)/EIC RO-0513-06/E/CC-364 dated 02/09/2008.
2. Amendment of consent granted vide no. BO/RO(P&P)/Amend/CC-328 dated 02/09/2009.
3. Extension of C to E vide Format 1.0/ BO/CAC-Cell/Amend/CAC-1488 Dtd 25.03.2014

Your application: CO1310000007

Dated: 16.09.2013

For: Consent to 1st Operate for Expansion

under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent is granted for a period upto 30.06.2015.
- The actual capital investment of the industry is Rs. 783 Crs. (As per C.A. Certificate submitted by industry).
- The Consent is valid for the manufacture of -

S. No	Product Name	Maximum Quantity in MT/Year
1	Coke	1 Million MT/Annum
	By Product	
3	Tar	47,000 MT/Annum
4	Coke Oven Gas (Only by Recovery Oven Technology)	4,56,687x10 ⁶ NM ³ /Annum

- Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	2160.00	As per Schedule-I	The treated effluent shall be 90% recycled and reused in the process and remaining shall be used on own land for gardening/plantation. There shall not be any discharge outside the

				factory premises.
2.	Domestic effluent	120.00	As per Schedule – I	On land for gardening /plantation only within the factory premises.

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Main Stack	1	As per Schedule -II
2.	Flare Stack	1	As per Schedule -II
3.	De-Dusting Stn Stack	1	As per Schedule -II
4.	Boiler	1	As per Schedule -II
5	DG Set	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

S.No.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Coal and Coke dust collected from de-dusting units	10000 T/Year	----	Recycled to mix with coal blend in the coal storage location.
2	Coke Breze	49145 T/Year	-----	Recycled in Sinter and Blast Furnace Plants.

7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

S.No.	Type of Waste	Category	Qty	UOM	Treatment	Disposal
1	Used / Spent Oil/ Lubricants	5.1	5000	Liters/Year	--	Sold to CPCB/ MPCB authorized parties for recycling
2	Spent Nickel (Ni) Catalyst	35.2	60	Tons once in 3 years		Sold to CPCB/ MPCB authorized parties for recycling
3	Sulphur Paste	34.3	5000	Tonne s/Year		Sold to CPCB/ MPCB authorized parties / Send to TSDF
4	ETP Sludge (Biochemical Treatment Plant Sludge)	34.3	1000	Ton/Y ear		Reused for coke making
5	Tar Sludge	13.3	1000	Ton/Y ear		Reused for coke making
6	Waste/ Residue Containing Oil (Cotton Waste)	5.2	730	Kg/Ye ar		Will be used as fuel in Electric Arc Furnace.
7	Mercury compounds Waste bearing Mercury (Used Tube lights)	A 6	500	Nos /Year		Sold to authorized vendors
8	E-wastes	E-wastes	1	Ton/Y ear		Sold to authorized vendors

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.

9. Industry shall submit details of APC system & water budget by 30.6.2014 and submit BG of Rs. 2 lakh by 25.5.2014 towards the compliance of the same.
10. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

For and on behalf of the
Maharashtra Pollution Control Board

(Rajeev Kumar Mital, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	7830100.00	236484	13.09.2013	ICICI Bank

The balance fees of Rs. 6133500/-, i.e., 3 years 11 months with the Board will be considered at the time of next renewal of consent.

Copy to:

1. Regional Officer -Raigad and Sub-Regional Officer, Raigad-2, MPCB They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website up-dation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have proposed to provide the Effluent Treatment Plant (ETP) to treat the total effluent.

Sr. No.	Parameters	Limits
1	pH	Between 5.5 to 9.0
2	Suspended Solids	Not to exceed 100 mg/l
3	BOD 3 days 27°C	Not to exceed 30 mg/l
4	COD	Not to exceed 250 mg/l
5	Oil & Grease	Not to exceed 10 mg/l
6	TDS	Not to exceed 1500 mg/l

- B] The treated effluent shall be 90% recycled and reused in the process and remaining shall be used on own land for gardening/plantation. There shall not be any discharge outside the factory premises.

- 2) A.] As per your consent application, you have proposed to provide septic tank and soak pit for the treatment of domestic effluent.

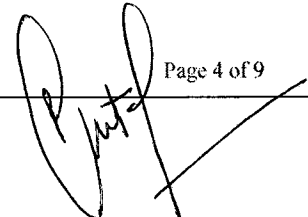
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent

(1)	Suspended Solids.	Not to exceed	100	mg/l.
(2)	BOD 3 days 27°C.	Not to exceed	100	mg/l.

- C] The treated sewage of 120 CMD shall be disposed on land for gardening.

- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.
- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	1920
2.	Domestic purpose	150
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	4320
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	--



- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to provide the Air pollution control (APC) system and also proposed to erect following stack (s) and to observe the following fuel pattern-

N o.	Stack Attached	APC System	Height in Mtrs	Type of Fuel	Quantity & UoM	S %	SO ₂
1	Coke oven battery-1	Chimney (Natural Draft)	145 (common stack)	Coke Oven Gas	7500 NM ³ /hr	---	800 mg/Nm ³
2	Coke Oven Battery-2			Blast Furnace Gas	120000 NM ³ /hr	---	
3	Flare Stack	---	50	Coke Oven Gas	50000 NM ³ /hr	---	---
4	Boiler Stack	---	40.3	Coke oven Gas	4500 NM ³ /hr	---	---
				Natural gas	2500 Nm ³ /hr	---	
5	Ground De-dusting system	Bag Filters	31	Nil	NA	---	---
6	DG Stack	---	30	HSD	400 Lit/hr	---	192 Kg/Day

2. The dust collection/Bag filter system of adequate capacity shall be provided at all sources of emissions to limit the emissions.
3. Fume extraction system followed by scrubber of adequate capacity shall be provided to limit the gaseous emissions.
4. The secondary emission control system shall be provided to limit the emissions generated during the process of loading of raw material as well as unloading of products and provide VOC control and monitoring system.
5. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipments)
6. Standards for emission of Air Pollutants
- Fugitive Visible Emission
 - a) Leakage from door: 5 (PLD)
 - b) Leakage from charging lids: 1 (PLL)
 - c) Leakage from AP covers: 4 (PLO)
 - d) Charging emission (Secondary/charge): 16 (with HPLA)

7. Stack emission of coke Oven plant to the following standards:

SPM/TPM	Not to exceed	50 mg/Nm ³	
NO _x	Not to exceed	500 mg/Nm ³	
SO ₂	Not to exceed	800 mg/Nm ³	
a) SPM emission during charging (Stack emission)			: 25 mg/Nm ³
b) SPM emission during coke pushing (Stack emission)			: 5 gm/ton of coke.
c) Sulphur in coke oven gas used for heating			: 800 mg/Nm ³

- Emission for quenching operations
Particulate matter : 50 gm/MT of coke produced
- Benzo-Pyrene (BaP) concentration in work zone area ug/Nm³
 - a) Battery area (top of battery) : 5 ug/Nm³
 - b) Other units in coke oven plant : 2 ug/Nm³
 - c) Ambient standards : 10 ug /m³

8. New coke oven units shall follow any of the low emission procedures such as, coke dry cooling, non-recovery coke-ovens, indirect Quenching process, jumbo coke oven reactor, Modifier Wet Quenching System with appropriate environmental controls (e.g. baffles, filtering media, collection and treatment of residual water from quench tower and recycling; Use of process water such as quenching water shall not be permissible.
9. Effective pollution control measures (for e.g. extensive maintenance and cleaning of oven doors and frame seals, ascension pipes, charging holes and lids and other equipments; On-main charging system (HPLA); luting charging holes with clay-suspension; Modified guide/transfer car with emission control system etc. shall be taken or reduce coal charging and coke pushing emissions. The bleeder of the coke oven shall be flared.
10. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
11. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

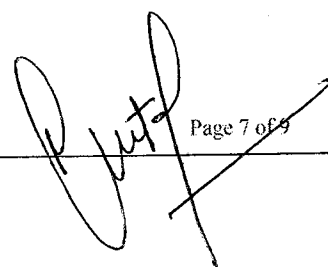
Maharashtra Pollution Control Board

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Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to O	Rs. 5/- Lakhs	25.5.2014	O & M of Pollution Control System	30.06.2015	31.10.2015
2	C to O	Rs. 2/- Lakhs	25.5.2014	To submit details of APC system & water budget	30.06.2014	31.10.2015

Maharashtra Pollution Control Board



Schedule-IV

General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker if applicable.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 5) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 6) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 7) The firm shall submit to this office, the 30th day of September every year , the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled
- 9) /processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 10) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 13) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 14) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 15) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

- 17) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 18) Conditions for D.G. Set
- a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 19) The industry should not cause any nuisance in surrounding area.
- 20) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 21) The applicant shall maintain good housekeeping.
- 22) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 23) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 24) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 25) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 26) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 29) The applicant shall comply with the conditions stipulated in Environmental Clearance granted by MoEF/GoM vide No. J-11011/166/2011-IA-II(I), dtd. 21/11/2012.

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