

# MAHARASHTRA POLLUTION CONTROL BOARD

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Sion Circle, Sion (E),  
Mumbai - 400 022

Consent No: Format 1.0/ BO/CAC-Cell/EIC No:-NG-11846-14/CAC/CA-8160

Date- ~~10/4/2015~~ 23/07/2015

To,  
Uttam Galva Metallics Limited,  
Village Barbadi and Inzapur,  
Bhugaon Link road  
Tq. Wardha, Dist Wardha

Subject: Consent to Establish for Expansion under RED category.

Ref : 1. Earlier Consent granted vide no-  
2. Minutes of CC/CAC meeting held on 15.04.2015

Your application: CE1501000417

Dated: 21/11/2014

For: Consent to Establish for Expansion

under Section 25 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 from Commissioning of the unit or 5 years whichever is earlier.
- The proposed capital investment of the industry is Rs.3727.3/- Crores. (As per C. A. Certificate submitted by industry)
- The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity
1.	Sinter Plant	0.76 MTPA
2.	Blast furnace alongwith 0.4 MTPA Pellet Plant	0.60 MTPA
3.	Coke Oven	0.60 MTPA
4.	Coke oven gas based on DRI (Surplus gas based) along with 0.4 MTPA Pellet Plant	0.40 MTPA
5.	Captive Power Plant (Surplus gas & kinetic energy based)	17 MW
6.	Additional power generation from Coke Dry Quenching (CDQ)	12 MW
7.	Converter / Electric Arc Furnace (Steel making)	60 T/Heat
8.	Caster & Mills for production of long products / blooms / billets	0.5 MTPA
<b>By product</b>		
1	Coal Tar	25000 TPA

- 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	2910.0	As per Schedule -I	Recycle/On land for gardening
2.	Domestic effluent	260.0	As per Schedule -I	On land for gardening

*(Handwritten Signature)*

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.	Coke oven -2	1	As per Schedule -II
2.	Coke oven -3	1	As per Schedule -II
3.	BF Stove	1	As per Schedule -II
4.	BF Cast House	1	As per Schedule -II
5.	BF Stock House	1	As per Schedule -II
6.	Sinter Machine -2	1	As per Schedule -II
7.	Sinter Plant -2 de-dusting	1	As per Schedule -II
8.	Reheating Furnace	1	As per Schedule -II
9.	Fumes Extraction System - BOFLF	1	As per Schedule -II
10.	Fumes Extraction System - BOFLF	1	As per Schedule -II
11	Power Plant -2	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	BF Slag	-	--	By sale to bldg. roads civil engineering work manufacturer
2	BOF Slag	-	--	By sale to bldg. roads civil engineering work manufacturer
3	Mill Scale	-	--	Reuse in plant
4	BF Flue Dust	--	--	Sold to downstream iron industries for agglomeration and reuse in Iron making - BF route
5	BF GCP Sludge	-	--	Reuse in sinter plant
6	BOF Sludge	-	--	Recycled
7	Sinter ESP dust	-	--	Recycled in sinter plant

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

Sr. No.	Type Of Waste	Category	Quantity	UOM	Disposal
1	Tar sludge from coke oven decanter	13.4	35	MT	CHWTSDF
2	ETP Sludge		122	MT	CHWTSDF
3	Spent/Wash/Lubricant	5.1	15	KI/Lot	Will be sold to registered recyclers

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, the by-product generator, should ensure that all the vehicles used to transport by-product to the vendor industry to be fitted with web based GPS system to record the origin to destination position and shall self monitor the compliance and submit monthly report to the Board.
10. Industry shall obtain affidavit from vendors stating that the by-product purchased from PP is used as raw material in their respective industries.
11. The industry shall comply with the conditions of Environmental Clearance granted vide dtd 04.09.2014 & amendment dtd 12.02.2015.

12. Industry shall comply the Directions of the CPCB issued vide dtd. 05.02.2014 & 02.03.2015 regarding installation of online monitoring system and shall install online effluent quality monitoring system for the parameters flow, pH, BOD, COD & TSS by 30.06.2015 and shall connect, upload the online effluent monitoring data at MPCB and CPCB server & submit the Bank Guarantee of 100% of the cost of online monitoring system for ensuring timely installation of the online monitoring system by 30.06.2015.
13. 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

  
(Dr. P. Anbalagan, IAS)  
Member Secretary

Received Consent fee of-

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	43,01,260.00	259258	28/10/2014	ICICI Bank
2	100	CASH	19.01.2015	CASH
3	31,53,540.00	762616	26/12/2011	SBI
The consent fees paid at Sr. No 3 is previous consent fees paid for C to E & application withdrawn which is adjusted during this Establish.				

Copy to:

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

Schedule-I

**Terms & conditions for compliance of Water Pollution Control:**

1) A] As per your application, you have proposed the Effluent Treatment Plant (ETP) with the design capacity of not mentioned.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board (If any)
	<b>I. Compulsory Parameters</b>	<b>Limiting Concentration in mg/l, except for pH</b>
01	pH	6.0-8.5
02	Suspended Solids	100
03	BOD (3 days 27°C )	100
04	COD	250
05	Oil & Grease	10
06	Total Dissolved Solids	2100
07	Chlorides	600
08	Sulphates	1000
09	Chromium	0.1
10	Total Chromium	2.0
11	Total Metal	10
12	Iron	5

C ) The total treated effluent shall be recycled reused to the maximum extent and remaining shall be utilized on land of 118 acres for plantation gardening.

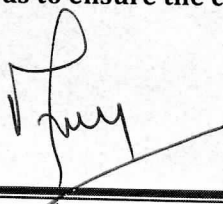
2) The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

(1)	Suspended Solids.	Not to exceed	50	mg/l.
(2)	BOD 3 days 27oC.	Not to exceed	30	mg/l.
(3)	COD.	Not to exceed	100	mg/l.

C] The treated domestic effluent shall be utilized on land of 118 acres for plantation / 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	21195
2.	Domestic purpose	900
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	1560
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	--
5	Other such as agriculture, gardening etc (specify)	1100

- 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:**

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

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO <sub>2</sub> Kg/Day
1	Coke oven -2	DE system	90	Coke	2000 T/Day	—	—
2	Coke oven -3	DE system	90	Coke			
3	BF Stove	ESP/Bag filters	60	Coke			
4	BF Cast House	ESP/Bag filters	35	Coke			
5	BF Stock House	ESP/Bag filters	35	Coke			
6	Reheating Furnace	Low Nox burners	50	LDO	2.0 KLD		
7	Sinter Machine -2	ESP	100	Coal	2800 T/D		
8	Sinter Plant -2 de-dusting	ESP	60	Coal			
9	Fumes Extraction System – BOFLF	Bag Filters	40	Coal			
10	Fumes Extraction System – BOFLF	Bag Filters	40	Coal			
11	Power Plant -2	ESP Low NOx burners	60	Coal			

- 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.

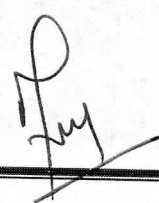
- The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	50 mg/Nm <sup>3</sup> .
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- 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.
- 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).
- The dust collection/Bag filter system of adequate capacity shall be provided at all sources of emissions to limit the emissions.
- Fume extraction system followed by scrubber of adequate capacity shall be provided to limit the gaseous emissions,
- 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.
- 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)

**10. Standards for emission of Air Pollutants**

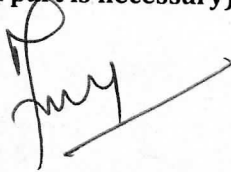
- Fugitive Visible Emission
  - Leakage from door: 5 (PLD)
  - Leakage from charging lids: 1 (PLL)
  - Leakage from AP covers: 4 (PLO)
  - Charging emission (Secondary/charge): 16 (with HPLA)



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

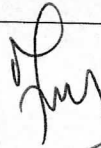
- |                 |               |                         |
|-----------------|---------------|-------------------------|
| SPM/TPM         | Not to exceed | 50 mg/Nm <sup>3</sup> . |
| NO <sub>x</sub> | Not to exceed | 500 mg/Nm <sup>3</sup>  |
| SO <sub>2</sub> | Not to exceed | 800 mg/Nm <sup>3</sup>  |
- a) SPM emission during charging (Stack emission) : 25 mg/Nm<sup>3</sup>
  - 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<sup>3</sup>
  - **Emission for quenching operations**
    - Particulate matter : 50 gm/MT of coke produced
  - **Benzo-Pyrene (BaP) concentration in work zone area ug/Nm<sup>3</sup>**
    - a) Battery area (top of battery) : 5 ug/Nm<sup>3</sup>
    - b) Other units in coke oven plant : 2 ug/Nm<sup>3</sup>
    - c) Ambient standards : 10 ug /m<sup>3</sup>

12. 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.
13. 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.
14. 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.
15. 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).



**Schedule-III**  
**Details of Bank Guarantees**

Sr. No	Consent (C to E/O/R)	Amt of BG Imposed	Submissi on Period	Purpose of BG	Compliance Period	Validity Date
1	C to E	10/- Lakhs	15 Days	Compliance of conditions EC accorded by MoEF, GOI	---	1 year
2	C to E	2/- Lakhs	15 Days	<p>1. Industry, the by product generator, should ensure that all the vehicles used to transport by-product to the vendor industry to be fitted with web based GPS system to record the origin to destination position and shall self monitor the compliance and submit monthly report to the Board.</p> <p>2. Industry shall obtain affidavit from vendors stating that the by-product purchased from PP is used as raw material in their respective industries.</p>	---	1 year

  
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#### Schedule-IV

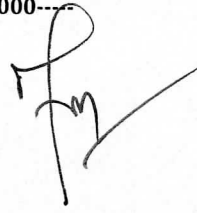
##### General Conditions:

- 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) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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/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.
- 8) 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 Hazardous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30<sup>th</sup> June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/ Activity.**
- 11) 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](http://www.mpcb.gov.in)).
- 12) 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.
- 13) 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.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) 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.

- 16) 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
- 17) The industry should not cause any nuisance in surrounding area.
- 18) 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.
- 19) The applicant shall maintain good housekeeping.
- 20) 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 31<sup>st</sup> March of the year and number of trees planted by September end, with the Environment Statement.
- 21) 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.
- 22) 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.
- 23) 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.
- 24) 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).
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 27) **The applicant shall install online continuous monitoring system for process stack emission analysis & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office within 3 months period and operate the same regularly.**
- 28) **The applicant shall install three continuous automatic ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost measure SO<sub>2</sub>, NO<sub>x</sub> and particulate matter.**

These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

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Maharashtra Pollution Control Board