

MAHARASHTRA POLLUTION CONTROL BOARD

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Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E),
Mumbai - 400 022

Red/L.S.I

Date: 18/01/2013

Consent No: BO/JD(APC)/EIC No.PN-16118-12/O/CC/CA-780

Consent to operate 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 / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

CONSENT is hereby granted to

M/s. Sona Alloys Pvt. Ltd
Plot No. C-1, MIDC Lonand,
Tal. Khandala, Dist. Satara

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Operate is granted for a period up to: 30/11/2015.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Pig Iron	337000	MT/A
2	Granulated BF Slag	91900	MT/A
3	Captive power	4.7	MW
4	Oxygen	1800	Nm ³ /hr
5	Nitrogen	1000	Nm ³ /hr

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 37 M³
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 21 M³.

(iii) **Trade Effluent Treatment:** The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards

Sr.no	Parameter	Limits
1	pH	Between 5.5 to 9.0
2	BOD 3 days 27 Deg. C	Not to exceed 30 mg/l
3	COD	Not to exceed 250 mg/l
4	SS	Not to exceed 100 mg/l.
5	Oil & Grease	Not to exceed 10 mg/l
6	TDS	Not to exceed 2100 mg/l.
7	Chlorides	Not to exceed 600 mg/l.
8	Sulphates	Not to exceed 1000 mg/l.

(iv) **Trade Effluent Disposal:** The treated effluent shall use on land for gardening. There shall not be any discharge outside the factory premises.

(v) **Trade Effluent for power plant :Treatment:** The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards

(vi) The industrial effluent arising from various sections of Power Plant shall be given such treatment either collective or individually as the site condition permits that the final quality of effluent shall have following character standards:

a) **Condenser Cooling Water:**

1)	pH	Between	6.5 to 8.5
2)	Temperature	Not to exceed	5 Degree C. Higher than the intake water
3)	Free available Chlorine	Not to exceed	0.5 mg/l

b) **Boiler Blow down:**

1)	Suspended Solids	Not to exceed	100 mg/l.
2)	Oil & Grease	Not to exceed	20 mg/l.
3)	Copper (Total)	Not to exceed	1 mg/l.
4)	Iron (Total)	Not to exceed	1 mg/l.

c) **Cooling Tower Blow down:**

1)	Free available Chlorine	Not to exceed	0.5 mg/l.
2)	Zinc	Not to exceed	1 mg/l.
3)	Chromium (Total)	Not to exceed	0.2 mg/l.
4)	Phosphate	Not to exceed	5 mg/l.

d) **D.M. Plant Effluent:**

1)	PH	Between	5.5 to 9
2)	BOD 3 days 27 Deg. C.	Not to exceed	30 mg/l.
3)	COD	Not to exceed	250 mg/l.
4)	Suspended Solids	Not to exceed	100 mg/l.
5)	Oil & Grease	Not to exceed	10 mg/l.
6)	TDS	Not to exceed	2100 mg/l.

(vii) **Trade Effluent Disposal:** The total treated effluent shall be recycled/ reused for ash handling, Coal handling, dust suppression etc to the maximum extent and remaining shall be utilized for plantation/gardening

(viii) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

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

(ix) **Sewage Effluent Disposal:** The treated domestic effluent shall be treated in sewage treatment plant and treated effluent shall be used on land for gardening / plantation only.

(x) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	Head ESP Dust	6000.00	Ton/Y	Recycled in sinter plant
2	PCM scrap	1000.00	Ton/Y	Recycled in convertor
3	Lime sludge	100.00	Ton/Y	Sale to secondary use
4	Sinter Cooler Exhaust	2400.00	Ton/Y	Recycled in sinter plant
5	Ore Fines	5000.00	Ton/Y	Recycled in sinter plant
6	Cock Fines	1500.00	Ton/Y	Recycled in sinter plant
7	Stock house dedusting dust	800.00	Ton/Y	Recycled in sinter plant
8	Cast house dedusting dust	250.00	Ton/Y	Recycled in sinter plant
9	BFG dust catcher dust	3800.00	Ton/Y	Recycled in sinter plant
10	GCP Bag Filter dust	1250.00	Ton/Y	Recycled in sinter plant
11	Granulated Slag	91900.00	Ton/Y	Sale to cement plant
12	BF Dry Slag	4850.00	Ton/Y	For landfill & road repair inside plant
13	Cast house scrap	1685.00	Ton/Y	Sale to secondary use
14	Cast house muck	500.00	Ton/Y	Landfill inside plant

(viii) **Other Conditions:**

- i) The unit shall carry out monthly monitoring of treated domestic as well as industrial effluent and submit the report of the same to the Board regularly
 - ii) The unit shall take necessary efforts for segregation of solid waste at source only and disposal salable waste regularly. The records showing waste segregation at source to be maintained.
 - iii) The unit shall take necessary efforts regarding rain water harvesting every monsoosn.
4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

(i) Domestic	...	25.0 CMD
(ii) Industrial Processing	...	35.0 CMD
(iii) Industrial Cooling	...	4316.0 CMD
(iv) Industrial Processing & floor washing	...	0.0 CMD
(iv) Agriculture / Gardening	...	0.0 CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act which is also available on MPCB website at <http://mpcb.gov.in/images/cessform1.pdf>.

5. CONDITIONS UNDER AIR ACT :

(i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

a. Control Equipment:

- i. Industry shall provide ESP, bag filter of sufficient capacity & operate continuously
- ii. Fume extraction system followed by Dust collection system of sufficient capacity should be provided to all sources of SPM/TPM shall be operated properly and continuously
- iii. Bag filter of adequate capacity provided to blast furnace should be operated properly and maintained regularly so as to achieve prescribed limits
- iv) There shall not be any secondary (Fugitive) emissions.

b. Standards for Emissions of Air Pollutants :

(i) SPM/TPM	Not to exceed	100 mg/Nm ³
(ii) SO ₂	Not to exceed	1518 Kg/Day.

c. 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. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 75

dB(A) during day time and 70 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.

- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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.
- g. D.G. Set shall be operated only in case of power failure.
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

d.(I) The applicant shall observe the following fuel pattern:-

S.No.	Fuel Type	UOM	Qty.	UOM
1	GAS	m3/day	1940000.00	m3/day
2	Coal	Ton/D	150.00	Ton/D
3	Furnace Oil	Lit/Day	200.00	Lit/Day

(ii) The applicant shall erect the chimney(s) of the following specifications:-

S.No.	Stack Attached	Height
1	Boiler	
2	Blast Furnace Sloye Exhaust	50.00
3	Cast House Furnace Extraction System	55.00
4	Stock House Dedusting Unit	30.00
5	Flare Stack	30.00
6	Head ESP (Main Exhaust System)	45.00
7	Tail ESP (Cooler / Crusher)	50.00
8	Flux Crushing Dedusting Unit	40.00
9	Screening Dedusting Unit	30.00

6. 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.
7. 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.

(iii) **Other Conditions:**

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality Regularly.
- 3) The D.G. Set shall be utilized as a standby power source and shall be operate only in case of power failure

8. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:

- (i) The Industry shall handle hazardous wastes as specified below.

Sr. No	Type Of Waste	Quantity	UOM	Disposal
1	5.1 Used /spent oil	100	Kg/D	Authorized Reprocessor

- (ii) Treatment: - NIL

- a. 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.
- b. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.
- c. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the **Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008** and shown & submitted to the Board as & when asked for..

9. Industry shall comply with following general conditions:

- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.

- iii. Solid waste – 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 to dumping ground.
- iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant 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 & conditions of this consent regarding pollution levels.
- v. The applicant shall not change or alter 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.
- vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- viii. 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 pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- ix. The applicant shall install a separate electric 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.
- x. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system
- xi. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory
- xii. The applicant shall operate all the three continuous automatic ambient air to measure SO₂, NO_x and particulate matter and shall operate micrometeorological monitoring station & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office

10 Board reserves the right to amend, revoke or add any conditions in this consent and same shall be binding on the applicant

11. This issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 08/01/2013.
12. The applicant shall comply with the condition stipulated in the Environmental Clearance granted by MoEF, GoI vide letter No.J-11011/827/2007-IA-II(I) dated 02/02/2008
13. You shall submit operational Bank Guarantee of Rs. 10/- lakhs in favor of Regional Officer Pune within 15 days against operation and maintenance of pollution control system. The Bank guarantee shall be valid up to 31/11/2015
15. The Capital investment of the industry is Rs. 445.38 Crs.

(Rajeev Kumar Mital IAS)
Member Secretary

To,
M/s. Sona Alloys Pvt. Ltd.
Plot No. C-1, MIDC Lonand,
Tal. Khandala, Dist. Satara

Copy to:

- 1) Regional Officer Pune/Sub-Regional Officer, MPCB, Satara-- They are directed to forfeit the Bank Guarantee of Rs. 5/- Lakhs (Out of Rs. 50/- Lakhs) immediately & remaining BG of Rs. 45/- Lakhs to be return to industry and obtain the fresh B.G of Rs. 10/- Lakhs from the industry & submit the present status report within one month period
 - 3) Chief Accounts Officer, MPCB, Mumbai
- Received Consent fee of

S.No.	Bank Name	DD. No.	DD. Dt.	Amount
1	ICICI Bank	001192	22/09/2012	2511057.00
2	ICICI Bank	001240	08/11/2012	50000.00