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

Consent No: Format 1.0 :- BO/EIC No. PN-23806-14 /CAC-Cell- 4240 *Date-* 13/04/2015

To,
M/s. Sandvik Asia Pvt Ltd.,
Plot no – 78, Chakan Industrial Area
MIDC Phase II, Village – Vasuli, Tal – Khed
Dist Pune – 410 501

Subject: Consent to Establish in RED category.
Ref : 1. Your application is approved in CAC meeting held on 25.03.2015.

Your application:- CE1501000727
Dated:- 19.12.2014.
For: Consent to Establish 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:

1. **The consent is granted for a period from Commissioning of the Unit OR 5 Years whichever is earlier.**

2. **The proposed capital investment of the industry is Rs.750 Crs. (As per Undertaking submitted by industry)**

3. The Consent is valid for the manufacture of –

Sr. No.	Product / By-Product Name	Maximum Quantity
1.	Tools (With Welding , Machining , Painting, Forging , Heat treatment , Blasting operations, Surface Treatment, & Surface Coating Activity)	40,40,600 Nos. / Year
2.	Mining & Construction Equipments	1009 Nos. / Year
3.	Servicing & Repairing of Heavy Earth Moving & Mining Equipments	428 Nos. / Year

4. 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	79.0	As per Schedule –I	Reuse/recycle and remaining on land for gardening
2.	Domestic effluent	35.0	As per Schedule –I	

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

Sr.	Description of Stack	No. of Stacks	Standards to be
1.	Rock Tools (Dust Stacks)	8 Nos.	As per Schedule -II

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
2.	Rock Tool (Process Stack)	24 Nos.	As per Schedule -II
3.	Assembly Center (Process Stack)	11 Nos.	As per Schedule -II
4.	Group R & D (Process Stack)	4 Nos.	As per Schedule -II
5.	SMS Solid Carbide (Process Stack)	4 Nos.	As per Schedule -II
6.	SMS - Soft Tool & TCC (Process Stack)	7 Nos.	As per Schedule -II
7.	Repair & Test Center (Process Stack)	4 Nos.	As per Schedule -II
8.	D G set	3 Nos.	As per Schedule -II
9.	Assembly Center	2 Nos.	As per Schedule -II

6. **Conditions about Non Hazardous Wastes:**

Sr. no.	Type Of Waste	Quantity & UoM (MT / Month)	Treatment	Disposal
1.	Ferrous	235	Nil	Sale to scrap dealer
2.	Non-Ferrous	1.5	Nil	Sale to scrap dealer
3.	Wood	25.0	Nil	Sale to scrap dealer
4.	Paper / Cardboards / Boxes etc.	4.1	Nil	Sale to scrap dealer
5.	General Trash / Garbage	70.0	Nil	Disposed at PCMC dumping zone by authorized MPCB approved vendor
6.	Plastic Waste	2.75	Nil	Sale to scrap dealer

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

Sr. No.	Type Of Waste	Categor	Quantit	UOM	Treatmen	Disposal
1.	Acid residues	12.1	0.12	MT/M	NA	CHWTSDF
2.	Phosphate sludge	12.5	1.68	MT/M	NA	CHWTSDF
3.	Wastes and residues (Paint sludge)	21.1	1.25	MT/M	NA	CHWTSDF
4.	Discarded containers / barrels / liners	33.3	493	Nos / M	NA	CHWTSDF
5.	Chemical-containing residue	33.1	3.60	MT/M	NA	CHWTSDF
6.	Chemical sludge from waste water treatment	34.3	1.39	MT/M	NA	CHWTSDF
7.	Used /spent oil	5.1	2.25	KL/M	NA	Sale to Authorized Recycler
8.	Wastes/residue containing oil	5.2	2.25	MT/M.	NA	
9.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

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

9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

10. *Industry shall submit the design details of Air Pollution Control System by 30.04.2015.*

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	Rs. 15,00,100/-	468106	11.12.2014	HSBC

Copy to:

1. Regional Officer Pune. and Sub-Regional Officer- Pune 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 updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have proposed to install the Effluent Treatment Plant (ETP) with the design capacity of 35 CMD.

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)
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	5.5 – 9.0
02	Oil & Grease	10
03	BOD (3 days 27oC)	30
04	Total Dissolved Solids	2100
05	Suspended Solids	100
06	COD	250
07	Chloride	600
08	Sulphate	1000
09	Zinc as Zn	5.0
10	Phosphate(as P)	5.0

C] Treated effluent of 60% recycle/reuse in the process & flushing purpose etc and remaining on land for gardening purpose after confirming the above standards. In no case effluent shall find its way outside factory premises.

2) A] As per your consent application, you have proposed to install sewage treatment system with the design capacity of 80 CMD.

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	50	mg/l.
(2)	BOD 3 days 27°C.	Not to exceed	30	mg/l.
(3)	COD	Not to exceed	100	mg/l.

C] Treated domestic effluent of 60% recycle/reuse in the process & flushing etc and remaining on land for gardening purpose after confirming the above standards. In no case effluent shall find its way outside factory premises.

D] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

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 .... conditions ....

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	378
2.	Domestic purpose	79
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	35
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil
5.	Gardening	41

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 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_2 Kg/Day
1.	DS1 Cutting off machine exhaust	Cyclone	1 mtr above roof	---	---	---	---
2.	DS2 Shot preening machine exhaust	Filter unit	1 mtr above roof	---	---	---	---
3.	DS3 Lehman Shot blasting	Filter Bag	1 mtr above roof	---	---	---	---
4.	DS4 Mech Shot blasting RT-3	Filter Bag	1 mtr above roof	---	---	---	---
5.	DS5 Mech Shot blasting RT-4	Filter Bag	1 mtr above roof	---	---	---	---
6.	DS6 Nor Clean Blasting RT-5	Filter Bag	1 mtr above roof	---	---	---	---
7.	DS7 Shot blasting DTH	Filter unit	1 mtr above roof	---	---	---	---
8.	DS8 Shot blasting HTP	Filter unit	1 mtr above roof	---	---	---	---
9.	DS9 SMC AC1 for extraction of SRP blasting M/c.	Dust Collector	1 mtr above roof	---	---	---	---
10.	DS10 SMC AC3 for extraction of SRP blasting M/c Dust	Dust Collector	1 mtr above roof	---	---	---	---
11.	DS11 Nova Blasting	Filter unit	1 mtr above roof	---	---	---	---
12.	PS1 Phosphating exhaust- SR treatment	----	1 mtr above roof	---	---	---	---
13.	PS2 Wesman Furnace Fume exhaust	---	1 mtr above roof	---	---	---	---
14.	PS3 Westerwork Air Quench exhaust	---	1 mtr above roof	---	---	---	---
15.	PS4 Braze Bit exhaust	---	1 mtr above roof	---	---	---	---

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO_2 Kg/Day
16.	PS5 Paint Booth exhaust	Water curtains	1 mtr above roof	---	---	---	---
17.	PS6 Paint Booth exhaust	Water curtains	1 mtr above roof	---	---	---	---
18.	PS7 Crown Forging Fume exhaust	---	1 mtr above roof	---	---	---	---
19.	PS8 Shank Forging Fume Exhaust	---	1 mtr above roof	---	---	---	---
20.	PS9 DDR HT Unit 1 fume exhaust	ESP	1 mtr above roof	---	---	---	---
21.	PS10 DDR HT Unit 2 fume exhaust	ESP	1 mtr above roof	---	---	---	---
22.	PS11 MGT Hot Caustic fume exhaust		1 mtr above roof	---	---	---	---
23.	PS 12 Bottom Brazing		1 mtr above roof	---	---	---	---
24.	PS13 Zinc Spray	Water curtain	1 mtr above roof	---	---	---	---
25.	PS14 Paint Booth-1 (Dry type)	Filter	1 mtr above roof	---	---	---	---
26.	PS15 Paint Booth-2 (Dry type)	Filter	1 mtr above roof	---	---	---	---
27.	PS16 Paint Booth-1 (Wet type)	Water curtain	1 mtr above roof	---	---	---	---
28.	PS17 Paint Booth 2 (Wet type)	Water curtain	1 mtr above roof	---	---	---	---
29.	PS 18 Welding-1		1 mtr above roof	---	---	---	---
30.	PS19 Welding-2		1 mtr above roof	---	---	---	---
31.	PS20 Welding-3		1 mtr above roof	---	---	---	---
32.	PS21 Welding-4		1 mtr above roof	---	---	---	---
33.	PS 22 Wesman Furnace	Burn-off flame	1 mtr above roof	---	---	---	---
34.	PS23 Wesman	Burn-off flame	1 mtr above roof	---	---	---	---
35.	PS24 Wesman	Burn-off flame	1 mtr above roof	---	---	---	---
36.	PS25 AC-1 Paint booth	Water [illegible]	1 mtr [illegible]	---	---	---	
37.	PS2[illegible]	[illegible]	1 mtr	---	---		---

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO_2 Kg/Day
	Paint booth	curtain	above roof				
38.	PS27 AC-3 Paint booth	Water curtain	1 mtr above roof	---	---	---	---
39.	PS28 AC-3 Paint booth	Water curtain	1 mtr above roof	---	---	---	---
40.	PS29 AC-3 Paint booth	Water curtain	1 mtr above roof	---	---	---	---
41.	PS30 AC-3 Paint booth	Water curtain	1 mtr above roof	---	---	---	---
42.	PS31 Additional Paint booth-4	Water curtain	1 mtr above roof	---	---	---	---
43.	PS32 Additional Paint booth-4	Water curtain	1 mtr above roof	---	---	---	---
44.	PS33 Additional Paint booth-4	Water curtain	1 mtr above roof	---	---	---	---
45.	PS34 Paint drying booth	Water curtain	1 mtr above roof	---	---	---	---
46.	PS35 Paint drying booth	Water curtain	1 mtr above roof	---	---	---	---
47.	PS36 DMK & DEK H2 Burn off exhaust	Water curtain	1 mtr above roof	---	---	---	---
48.	PS37 Gas Panel of DMK, DEK & Cylinder storage room		1 mtr above roof	---	---	---	---
49.	PS38 Other Test Furnace automization/tempering/ annealing	Filter cyclone	1 mtr above roof	---	---	---	---
50.	PS39 Scrubber for cleaning booth	Scrubber	1 mtr above roof	---	---	---	---
51.	PS 40 SC Line-1 Grinding M/s.	ESP unit	1 mtr above roof	---	---	---	---
52.	PS 41 SC Line-2 Grinding M/s.	ESP unit	1 mtr above roof	---	---	---	---
53.	PS 42 SC Line-3 Grinding M/s.	ESP unit	1 mtr above roof	---	---	---	---
54.	PS 43 SC Line-4 Grinding M/s.	ESP unit	1 mtr above roof	---	---	---	---
55	PS44 Wesman Furnace Line	---	1 mtr above roof		---	---	---
		Water	1 mtr		---	---	---

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO_2 Kg/Day
	dizing	scrubber	above roof				
57.	PS46 Paint booth	Water curtain	1 mtr above roof	---	---	---	---
58.	PS47 Soft Tools Line 1 CNC M/s.	ESP unit	1 mtr above roof	---	---	---	---
59.	PS48 Soft Tools Line 2 CNC M/s.	ESP unit	1 mtr above roof	---	---	---	---
60.	PS49 Soft Tools Line 1 CNC M/s	ESP unit	1 mtr above roof	---	---	---	---
61.	PS50 Soft Tools Line 2 CNC M/s	ESP unit	1 mtr above roof	---	---	---	---
62.	PS51 Repair Center Paint booth 1/1	Water curtain	1 mtr above roof	---	---	---	---
63.	PS52 Repair Center Paint booth 1/2	Water curtain	1 mtr above roof	---	---	---	---
64.	PS53 Equipment Test Bed	----	1 mtr above roof	---	---	---	---
65.	PS54 Equipment Test Bed	----	1 mtr above roof	---	---	---	---
66.	DG set (1500 KVA)		1 mtr above roof	HSD	340 Kg/hr	1	163.2
67.	DG set (1500 KVA)		1 mtr above roof	HSD	340 Kg/hr	1	163.2
68.	DG set (1500 KVA)		1 mtr above roof	HSD	340 Kg/hr	1	163.2

2. **The Applicant shall provide Specific Air Pollution control equipment 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 equipment)**

3. **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	150 mg/Nm^3.
Acid Mist	Not to exceed	35 mg/Nm^3

4. **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.**

5. 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)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	CtoE	Rs. 5 lakh	15 days	Towards compliance of consent conditions	COU	28.02.2016
2.	CtoE	Rs. 2 lakh	15 days	Industry shall submit the design details of Air Pollution Control system.	31.04.2015	28.02.2016

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.
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 equipment, 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 /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.
9) 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 30th June of every year.
10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
11) **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/ Activity (in case of Consent to establish).**
12) 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).
13) 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.
14) 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 [illegible] provided collection system.
15) No [illegible] from other premises shall be [illegible] the effluents from the factory.

16) 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.

17) 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 sitting 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

18) The industry should not cause any nuisance in surrounding area.

19) 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.

20) The applicant shall maintain good housekeeping.

21) 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.

22) 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.

23) 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 equipment 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.

24) 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.

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.

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