

MAHARASHTRA POLLUTION CONTROL BOARD

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Website: http://mpcb.gov.in		Near Sion Circle, Sion (E)
E-mail: mpcb@vsnl.net		Mumbai-400 022.

Red/L.S.I

Date: 07/02/2012

Consent No: BO/JD(APC)/EIC No. **PN-11331-11** /O/CC-CA-266

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 & Transboundary Movement) Rules 2008

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

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CONSENT is hereby granted to

M/s. John Deere India Pvt. Ltd.
Gat No. 166,167 & 271 to 291,
Pune Nagar Road, Sanaswadi,
Tal. Shirur, Dist. Pune

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: **31/12/2012**
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Agricultural Tractors	75000	Nos./Y
2	Number of Aggregates	50000	Nos./Y
3	Painting of Tractor Parts	3600	Mtrs/Day
4	Testing the tractors and its components	-	-

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed **312 M³**.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed **228M³**.

(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.
9	Phosphate	Not to exceed	5 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) **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.

(vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	C.I.Boring (Machining Chips)	1254	MT/M	Sale to authorised dealer
2	Wooden Scrap			Sale to authorised dealer
3	Waste Paper garbage / empty Carton Boxes			Sale to authorised dealer
4	Rejected Alluminium Casting Scrap			Sale to authorised dealer
5	Process Scrap(M.S.)			Sale to authorised dealer
6	Process Scrap Plastic			Sale to authorised dealer
7	MISC Scrap			Sale to authorised dealer
8	Air Filter Scrap (ACU)			Sale to authorised dealer
9	G.I.Ducting / G.I. Scrap			Sale to authorised dealer
10	Rejected Cast Iron Scrap			Sale to authorised dealer

(vi) **Other Conditions:** The industry should monitor effluent quality regularly and submit the monthly report to the Regional Office of Board at Pune and also Cess division of Board.

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 ... 306.5 CMD
(ii) Industrial Processing ... 479.5 CMD
(iii) Industrial Cooling ... 203 CMD
(iv) Agriculture / Gardening ... 288 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.

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) 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
- ii) Painting activity shall be carried out in an enclosed shed
- iii) There shall not be any secondary (Fugitive) emissions.

b. Standards for Emissions of Air Pollutants :

(i)	SPM/TPM	Not to exceed	150 mg/Nm ³
(ii)	SO ₂	Not to exceed	70 Kg/Day.
(iii)	SPM/TPM	Not to exceed	35 mg/Nm ³

c. Conditions for D.G. Set

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

Type fuel used & quantity for

Sr. No.	Type Of Fuel	Quantity	UOM
1	LPG	245.00	MT/M
2	HSD	110.00	KLM

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Hot Water Generator	29.00
2	D. G. set 500 KVA	20.00
3	D. G. set 2 * 1500 KVA	23.00
4	PPS Paint booth - 2	20.00
5	D. G. set 1800 KVA	30.00
6	CPS Primar oven - 02 doors	20.00
7	Component Washin Machine - 1	20.00
8	Paint Mix Room	20.00
9	Component Washin Machine - 2	20.00
10	Component Washin Machine - 3	20.00
11	Component Washin Machine - 4	20.00
12	Cylinder Liner washing machine	20.00
13	Component Washin Machine - 5	20.00
14	CPS paint Booth-1	20.00
15	CPS paint Booth-4TC	20.00

16	Engine Exhaust	20.00
17	Component Washin Machine - Nr. column E-11	20.00
18	Component Washin Machine - Nr. column C-15	20.00
19	Diesel Engine Pump Sprinkler	20.00
20	Diesel Engine Pump Hydrant	20.00
21	CPS Dry off oven	20.00
22	CPS Primar coolar	20.00
23	Cylinder head intermedieate washing machine	20.00
24	PV&V Lab Boiler	20.00
25	Athila Paint Booth-1 (Oven)	20.00
26	Athila Paint Booth-2 (Blower FOZ)	20.00
27	Athila Paint Booth-1 (Booth Blower 1)	20.00
28	CPS -Top coat oven	20.00
29	CPS -Top coat oven-2 doors	20.00
30	Athila Paint Booth-1 (Booth Blower - 2)	20.00
31	PV&V Lab Tractor Engine	30.50
32	CPS Pretreatment -1	20.00
33	PV&V Lab Hot Water generation exhaust	14.00
34	PPS Dry off oven	20.00
35	PPS Primar Flash off	20.00
36	CPS Pretreatment- 2	20.00
37	CPS Dryoff oven 1 door	20.00
38	CPS Primar oven	20.00
39	CPS Dryoff oven 2 door	20.00
40	Sanding Equipment	20.00
41	E-coat tank exhaust	20.00
42	Pretreatment Stage-1	20.00
43	PPS Pretreatment -1	20.00
44	Pretreatment Stage-2	20.00
45	Cylinder head final washing machine	20.00
46	Pretreatment Stage-3	20.00
47	E-coat Oven exhaust	20.00
48	PPS Top coat Flash off	20.00
49	E-coat oven hood exhaust	20.00
50	E-coat oven coolar	20.00
51	Powder coating oven exhaust	9.00
52	Engine Test cell	21.10
53	Powder coating oven hood exhaust	9.00
54	CPS Primar Flash off	20.00
55	Powder coating oven coolar	9.00
56	CPS paint Booth-3	20.00
57	Tag o rag	9.00
58	PPS Pretreatment -2	20.00
59	ED Sanding Exhaust	20.00
60	Pretreatment Stage -1(Degresing)	18.00
61	CPS Dry Off coolar	20.00
62	Pretreatment Stage -1(Phosphating)	18.00
63	Dry off oven	18.00

64	General Washing machine	20.00
65	Dry off oven coolar	18.00
66	Primar booth	18.00
67	Cylinder block intermedieate washing machine	20.00
68	Primar Flash off	18.00
69	Top coat booth	18.00
70	CPS Top coat Flash off	20.00
71	Top coat flash off	20.00
72	PPS Primar oven	20.00
73	Top coat oven	20.00
74	CPS paint Booth-2 TC	20.00
75	Hot Water Generator	20.00
76	CPS Primar oven - 01 door	20.00
77	Zig Cleaning Tank	20.00
78	CPS -Top coat oven-1 doors	20.00
79	DG Set 160 KVA	6.00
80	DG Set 320 KVA	6.00
81	Powder coating oven preheat zone	9.00
82	CPS Top coat coolar	20.00
83	PPS -Top coat oven	20.00
84	PPS Paint booth - 1	20.00
85	Connecting rod washing machine	20.00
86	Cylinder block final washing machine	20.00

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.

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	920.00	MT	Authorised Reprocessor CHWTSDF
2	5.2Wastes/residue containing oil	3146.00	MT	Authorised Reprocessor CHWTSDF
3	5.2Wastes/residue containing oil	870.00	MT	To CHWTSDF
4	12.5 Phosphate sludge	160.00	MT	To CHWTSDF

5	20.1 Contaminated aromatic, aliphatic naphthenic solvents	770.00	MT	Authorised Reprocessor CHWTSDF
6	21.1 Wastes and residue	2700.00	MT	To CHWTSDF
7	33.3 Discarded containers / barrels / liners	570.00	MT	Authorised Reprocessor CHWTSDF
8	34.2 Toxic metal containing residue from water purification	240.00	MT	Authorised Reprocessor CHWTSDF
9	34.3 Chemical sludge from waste water treatment	1200.00	MT	To CHWTSDF

(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 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 per 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
- 10 This is issued with approval of Consent Appraisal Committee meeting of the Board held on dtd. 23/01/2012
11. The Capital investment of the industry is Rs. 516.20 Crs.
This consent is issued as per the office note dated 02/02/2012 approved by the Hon'ble Chairman of the Board.


(V. M. Motghare) 29/2/2012
Joint Director (Air Pollution Control)

To,
M/s. John Deere India Pvt. Ltd.
Gat No. 166,167 & 271 to 291,
Pune Nagar Road, Sanaswadi,
Tal. Shirur, Dist. Pune

Copy to:

- 1) Regional Officer/Sub-Regional Officer, MPCB, Pune-II-they are directed to ensure the compliance of consent conditions & submit the detail report of pollution control System within 1 month period.
 - 2) Chief Accounts Officer, MPCB, Mumbai
- Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	50100	002986	25 May 2011	Citi Bank
2	25000	758188	17 Sep 2011	Citi Bank
3	18540	315662	12 Dec 2011	Citi Bank

* Consent fees received as per revised consent fees G.R. of Env't. Dept, GoM dated 25/08/2011