

Consent Order No.

CTE-315090

PCB ID:

79946

Date.

30/09/2019

To,
The Applicant
Residential Apartment by Orchids Apartments Private Limited d
10, Vittal Mallya Road,
Bangalore – 560 00

Sir,

Sub: Consent to Establish under the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act, 1981-reg.,

Ref: 1. CFE application submitted by the industry/organization on 20/07/2019 at Regional Office

2. Inspection of the project site by Regional Officer
- Bangalore on 16/08/2019
- Mahadevapura
- 3.Proceedings of the CCM dated 21/09/2019 ,held on 20/09/2019

With reference to the above, Karnataka State Pollution Control Board hereby accords **Consent for Establishment** for new Activity under the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act, 1981 at the location indicated below subject to the following terms & conditions.

Location:

Name of the Applicant:

Residential Apartment by Orchids Apartments Private Limited d

Address:

Survey No 37/4, 37/5, (old Sy No 37/3), 56/4, 56/5, 56/6, 64/4 (old Sy No 64/2), 64/5 (old Sy No 64/2), 65/1A1 (old Sy No 65/1A) & 65/1B, Chikkanayakanahalli, Varthur Hobli, Bangalore East Taluk, Ben

Industrial Area:

Not In I.A, Bangalore,

Taluk:

Not in BBMP Area, District: Bangalore Urban

Conditions:

1. This consent for establishment is valid up to 29/09/2024 from the date of issue.
2. The applicant shall not undertake expansion/diversification without the prior consent of the Board.
3. The applicant shall obtain necessary license/clearance from other relevant statutory agencies as required under the law.
4. This consent is granted considering the following activities:

Sr	Product Name	Applied Qty/Month	Unit
1	residential apartment with 1322 flats in tbua 148476 smtr, plot 54783.56 smtr	1322.0000	NOS

I. WATER CONSUMPTION:

1. The source of water shall be from Halanayakanahalli and total water consumption shall be as below.
- Grama Panchayath

Particulars	Water consumption(KLD)
Domestic Purpose	872.0

II. WATER POLLUTION CONTROL:

- 1.The discharge from the premises of the applicant shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act or Rules made there under.
2. The applicant shall treat the domestic wastewater from the factory in septic tank with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be designed as per IS 2470 Part - I andPart- II
3. The applicant shall treat the domestic wastewater in the Sewage Treatment Plant (STP) as per the proposal submitted.It shall meet the standards specified in Annexure-I & shall be used on land for gardening/greenbelt within the factory premises.
4. The quantity of domestic waste water and trade effluent generated from the proposed industry shall not exceed the permitted quantity as indicated below

Discharge of effluents under the Water Act:

Sl. No.	Description	Permitted Quantity of discharge in KLD	Mode/Place of disposal
1	Domestic Purpose	741.000	secondary urban purposes

5. The applicant shall treat the trade effluent in proposed ETP which consists of the following;

STP & ETP details

SINo	ETP/STP NO	ETP Code	Category Name	Capacity (Meter Cubic)	Units	Remarks
1	STP2	BS-	Bar Screen	1.50	1	1.5 m x 1.0 m x 1.5 m
2	STP1	BS-	Bar Screen	2.50	1	2.5 m x 1.0 m x 1.5 m depth
3	STP1	CDT	P-Chemical Dousing Tank	625.00	1	625 Cum
4	STP2	CDT	P-Chemical Dousing Tank	120.00	1	120 Cum
5	STP2	DEC	P-Decanter	50.00	1	50 Cum
6	STP1	DEC	P-Decanter	234.00	1	234 Cum
7	STP2	DEC	P-Decanter	0.00	1	
8	STP2	DEC	P-Decanter	0.00	1	
9	STP1	EQU	P-Equalization Tank	235.00	1	235 Cum
10	STP2	EQU	P-Equalization Tank	55.00	1	55 Cum
11	STP1	FTP	P-Filter Press	0.37	1	Size of Each Plate is 0.61 x 0.61 = 0.37 m
12	STP2	FTP	P-Filter Press	0.22	1	Size of Each Plate is 0.47 x 0.47 = 0.22 m
13	STP2	CFL	T-CARBON FILTER	1000.00	1	one no of Carbon filter of 1000 mm dia and 1500 mt HOS
14	STP1	CFL	T-CARBON FILTER	2500.00	1	one no of Activated carbon filter of 2500 mm dia and 1500 mt HOS
15	STP2	SFL	T-SAND FILTER	1000.00	1	one no of Pressure Sand filter of 1000 mm dia and 1500 mt HOS
16	STP1	SFL	T-SAND FILTER	2500.00	1	one no of Pressure Sand filter of 2500 mm dia

6. The applicant shall ensure that the ETP will treat the effluent to the stipulated standards as indicated in Annexure-I
7. The applicant shall not discharge any effluent outside the industry premises.
8. The applicant shall provide separate flow meter for inflow & outflow of effluents through ETP and separate energy meter and shall maintain a logbook for hourly record of meter reading for the verification of inspecting officers
9. The applicant shall discharge the effluents only to the place mentioned in the Consent order.

III. AIR POLLUTION CONTROL:

1. The Source of emission, Stack height & Air Pollution Control (APC) measures shall be as specified in ANNEXURE-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

IV. NOISE POLLUTION CONTROL:

1. The applicant shall ensure that the ambient noise levels within its premises shall not exceed the limits i.e. 75 dB(A) Leq during day time and 70 dB(A) Leq during night time as specified in the Environment (Protection) Rules.

V. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall collect, treat and dispose off all solid waste generated from the process other than wastes covered under the Hazardous and other Wastes (Management & Transboundry Movement) Rules 2016, in such manner so as not to cause environmental pollution.
2. The details of solid waste generated from the proposed plant and mode of disposal shall be as below.

Sr	Solid Waste Name/Type	Qty-Unit	Mode of Disposal
1	Organic Waste	48.5400 - M.T	OTH
2	STP Sludge	8.0460 - M.T	OTH
3	Inorganic waste	32.3700 - M.T	OTH

VI. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDRY MOVEMENT) RULES 2016:

1. The applicat shall apply and obtain authorization under Hazardous and Other Wastes (Management & Transboundry Movement) Rules 2016, and comply with the provisions of the said Rules.

VII. GENERAL:

1. The applicant shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
2. The applicant shall not commission the proposed plant for trial or regular production unless necessary Water & air pollution control equipments are installed as specified in the Consent Order.
3. The applicant shall ensure that the treatment plant and control equipments are completed and commissioned simultaneously along with construction of the factory and erection of machineries.
4. The applicant shall not change or alter (a) raw materials or manufacturing process, (b) change the products or product mix (c) the quality, quantity or rate of discharge/emissions and (d) install/replace/alter the water or air pollution control equipments without the prior approval of the Board.
5. The applicant shall immediately report to the Board of any accident or unforeseen act or event resulting in release of discharge of effluents or emissions or solid wastes etc. in excess of the standards stipulated. And the industry shall immediately take appropriate corrective and preventive actions under intimation to the Board.
6. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
7. This CFE does not give any right to the Party/Project Authority/Industry to forego any other legal requirement, that is necessary for setting/operation of the plant.
8. The applicant shall furnish pointwise compliance to the conditions given under this consent for establishment along with the application for Consent to operate.
9. The applicant is liable to reinstate or restore, damaged or destroyed elements of environment at his cost, failing which, the applicant/occupier as the case may be shall be liable to pay the entire cost of remediation or restoration in advance an amount equal to the cost estimated by Competent Agency or Committee.
10. The applicant shall comply with all the Conditions and guidelines issued from time to time.
11. The applicant must create structure/facility for rain water harvesting and ground water recharge.
12. The applicant shall develop extensive green belt within the periphery of the plant.
13. This consent is issued without prejudice to Court Cases pending in any Hon'ble Court.

Please note that this is only consent for establishment issued to you to proceed with the formalities for establishment of the industry and does not give any right to proceed with trial/regular production. For this purpose, separate consents of the Board for discharge of liquid effluent and the emissions to the air shall have to be obtained by remitting prescribed consent fee. The application for consent has to be made 45 days in advance of commissioning for trial production of the plant.

The receipt of this letter may please be acknowledged.

Consent Fee paid : Rs. 75000

Note:
The Conditions Nil mentioned in the schedule are not applicable.

Additional Conditions:
II(2),(6), III(2), IV(1), V(1), VI(1) & VII(4) these conditions are not applicable.
The project authorities shall strictly comply with the conditions stipulated in Annexure I contains 07 pages.
The CFE is issued as per the recommendations of the Consent Committee proceedings held on 20.09.2019 and duly approved by Member Secretary & Chairman.

COPY TO:

1. The Environmental Officer, KSPCB, Regional Office, Bangalore Mahadevapura for information and to inspect the industry during your next visit to the area.
2. Master copy (Dispatch).
3. Office copy.

ANNEXURE- II

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to atleast eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame or rectangular stacks, the equivalent diameter can be calculated from the following equation.

Equivalent Diameter

=

$$\frac{2 \text{ (Length x Width)}}{\text{(Length + Width)}}$$
2. The diameter of the sampling port should not be less than 100mm dia”. Arrangements should be made so that the porthole is closed firmly during the non sampling period.
3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

FOR AND ON BEHALF OF KARNATAKA
POLLUTION CONTROLBOARD



Consent For Establishment (CFEs)

Consent No. CTE-315090 Valid
upto: 29/09/2024

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

Industry Colour: RED

Industry Scale: LARGE

(This document contains 5 pages including annexure & excluding additional conditions)

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ

ನಿಯಂತ್ರಣ ಮಂಡಳಿ

ಕರ್ನಾಟಕ

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ

ನಿಯಂತ್ರಣ ಮಂಡಳಿ

ಕರ್ನಾಟಕ

Signature Not Verified

Digitally signed by
Date: 2019.09.30 16:54:16
+05:30

Orchids Apartment Pvt Ltd.,
NO. PCB/63/CNP/19

DATE:

ANNEXURE - I

Sub: Consent for establishment to construct Residential Apartment with 1322 flats having total built up area of 1,48,476.00 Sq.m. located at Sy. No. 37/4, 37/5, (Old Sy. No. 37/3), 56/4, 56/5, 56/6, 64/4 (Old Sy. No. 64/2), 64/5 (Old Sy. No. 64/2), 65/1A1 (Old Sy. No. 65/1A) & 65/1B of Chikkanayakanahalli Village, Varthur Hobli, Bengaluru East Taluk, Bengaluru by **M/s. Orchids Apartment Pvt Ltd.,**

Ref: 1. Application for consent for establishment received at Regional Office, KSPCB, **Mahadevapura** on 19.07.2019.
2. Inspection of the proposed project site by Officer of the Regional Office, KSPCB, **Mahadevapura** on 16.08.2019.
3. E.C. issued vide No. SEIAA 13 CON 2019 dated 08.05.2019.
4. The proceedings of CCM held on 20.09.2019.



With reference to the above, it is to be informed that this Board hereby accords Consent for Establishment under the Water (Prevention & Control of Pollution) Act 1974 to construct **Residential Apartment with 1322 flats having total built up area of 1,48,476.00 Sq.m.** located at Sy. No. 37/4, 37/5, (Old Sy. No. 37/3), 56/4, 56/5, 56/6, 64/4 (Old Sy. No. 64/2), 64/5 (Old Sy. No. 64/2), 65/1A1 (Old Sy. No. 65/1A) & 65/1B of Chikkanayakanahalli Village, Varthur Hobli, Bengaluru East Taluk, Bengaluru by **M/s. Orchids Apartment Pvt Ltd.,** subject to the following conditions.

1. This consent for establishment shall be valid for a period of Co-terminus with the validity of Environmental Clearance (EC) issued by SEIAA, Karnataka vide dated 08.05.2019.
2. The applicant shall not take expansion/diversification without the prior consent of the Board.
3. The applicant shall obtain necessary licence/clearance from their relevant agencies before taking up construction.
4. The applicant shall obtain NOC from the Board before handing over of apartment to residents Association.

Signature 20/9/19
SENIOR ENVIRONMENTAL OFFICER

5. The applicant shall maintain utilities including STP for a minimum period of five years.
6. The applicant shall use treated sewage for secondary purposes including construction.
7. This CFE is issued only from the point of water pollution control only and does not have any relevance over land dispute, any pending cases with any Departments/Hon'ble Courts.
8. Sewage Treatment Plant (STP) and Solid waste processing facility (for organic) shall be provided and operated satisfactorily by the project proponent himself before it is handed over to Association/Company.

I. Environmental Aspects and Management during the course of construction:

- a) The applicant should cover the project site from all sides by raising sufficiently tall barricades with sheets to ensure that pollutants should not spill to the surroundings.
- b) The applicant shall arrange services like housing facility, water supply, sewage facilities on a temporary basis at construction site and same shall be maintained without any adverse impact on the environment.
- c) The applicant shall control the movement of vehicles carrying construction materials in order to avoid noise pollution in the surrounding.
- d) The project proponent shall strictly adhere to the conditions stipulated in the Environmental clearance issued from the State Level Environment Impact Assessment Authority-Karnataka vide No. SEIAA 13 CON 2019 dated 08.05.2019.
- e) The applicant shall adhere to the zonal regulations of RMP-2015 as per The Hon'ble Supreme Court Of India Judgment dated 05.03.2019 in respect of Civil Appeal No.5016 of 2016.
- f) The applicant shall submit final approved plan from competent authority to the Board before taking up any construction activities.
- g) The applicant shall seek extension through a letter 45 days in advance of the expiry of validity period of CFE/CFExpn order with proper reasons for seeking such extension if required.

II. WATER CONSUMPTION:

1. The project authorities shall use BWSSB tertiary treated water for construction works.
2. The water consumption shall not exceed 872 KLD. There shall not be drawal of ground water without obtaining permission from CGWA.


SENIOR ENVIRONMENTAL OFFICER

III. WATER POLLUTION CONTROL:

1. The quantity of sewage shall not exceed **741 KLD** and shall be treated in the sewage treatment plant (STP) of capacity **625 KLD & 120 KLD (2 Nos. of STP)** with the treatment scheme as submitted in the STP proposal to meet the standards stipulated below before utilizing for Urban Reuse viz., landscape irrigation, vehicle washing, toilet flushing building construction use in fire protection and commercial air conditioners. STP shall be constructed on modular basis to cater to phase-wise development. The STP shall be installed above ground level & shall be easily accessible for the inspecting officer.

Table-I		
Sl. No	Parameter	Parameters Limit.
01.	pH	6.5 – 9.0
02.	BOD (mg/l)	Not more than 10
03.	COD (mg/l)	Not more than 50
04.	TSS (mg/l)	Not more than 20
05.	NH4-N (mg/l)	Not more than 5
06.	N-Total (mg/l)	Not more than 10
07.	Fecal Coliform (MPN/100 ml).	Less than 100

2. If the treatment plant do not achieve the effluent standards stipulated under conditions (1) above or if it is found to be inadequate, then the applicant shall have to modify the units so as to meet the standards with prior consent of the Board.
3. All the treatment units shall be made impervious and there shall not be any discharge of sewage outside the premises.
4. The applicant shall provide separate energy meter to liquid waste treatment plant & STP and also shall provide flow meters. A log book of readings shall be maintained.
5. The applicant should make provisions for dual piping system to use the treated sewage water for toilet flushing, gardening and other purposes.
6. The applicant shall dispose excess treated sewage i.e. left after using for secondary purposes, to authorized BWSSB transporters for discharge into nearby BWSSB STP. The applicant shall maintain log book and vehicle details in this regard and submit daily disposed details every month to the Regional Office without fail.
7. The project proponent shall apply & obtain the NOC from BWSSB immediately.

IV. AIR POLLUTION CONTROL:

1. The applicant during construction shall ensure that the Ambient Air Quality in its premises shall conform to the National Ambient Air Quality Standards specified in Environment (Protection) Rules.


 SENIOR ENVIRONMENTAL OFFICER

2. The applicant shall provide acoustic measures to the DG Sets as per Sl. No. 94 in Schedule-I of Environment (Protection) Rules.
3. The applicant shall provide dust suppression systems with water sprinkling system during construction period.

V. NOISE POLLUTION CONTROL:

1. The applicant shall ensure that the ambient noise levels and ambient air quality within its premises during construction and after construction shall not exceed the limits specified in the Environment (Protection) Rules, i.e. 55 dB(A) Leq during day time and 45 dB(A) Leq during night time during and after construction.

VI. SOLID WASTE & HAZARDOUS WASTE DISPOSAL:

1. The applicant shall collect, treat and dispose off all solid waste generated during construction i.e. Muck, and Garbage after construction if any in such manner so as not to cause environmental pollution.
2. The applicant shall apply and obtain authorization for management & handling of waste oil under Hazardous & other Waste (Management & Transboundary Movement) Rules, 2016.
3. The applicant shall earmark sufficient place for segregation and processing and convert the bio-degradable solid waste generated from unit into compost within their premises with scientific method.
4. The applicant shall strictly follow the Government Notification No. FEE 17 EPC 2012 Bangalore dated 11.03.2016 with regard to plastics ban.
5. The applicant shall strictly follow Construction & Demolition Waste Management Rules, 2016. The applicant shall comply with the following conditions stipulated by MoEF & CC, GoI Notification No. G.S.R. 94 (E) dated 25.01.2018.

(a) No building or infrastructure project requiring Environmental Clearance shall be implemented without approved Environmental Management plan inclusive of dust mitigation measures.

(b) Roads leading to or at construction sites must be paved & blacktopped (ie., metallic roads).

(c) No excavation of soil shall be carried out without adequate dust mitigation measures in place.

(d) No loose soil or sand or Construction & Demolition waste or any other construction material that causes dust shall be left uncovered.

Signature
SENIOR ENVIRONMENTAL OFFICER

- (e) Wind – breaker of appropriate height i.e., 1/3rd of the building height & maximum up to 10m shall be provided.
- (f) Water sprinkling system shall be put in place.
- (g) Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.
- (h) Grinding & cutting of building materials in open area shall be prohibited.
- (i) Construction material & waste should be stored only within earmarked area & road side storage of construction material & waste shall be prohibited.
- (j) No uncovered vehicles carrying construction material & waste shall be permitted.
- (k) Construction & Demolition waste processing & disposal site shall be identified & required dust mitigation measures be notified at the site.

VII. HEALTH & SAFETY:

1. The applicant shall provide all necessary healthcare facilities to workers and shall carry out routine health survey among workers..
2. The applicant shall provide all safety measures including personal protective equipments to workers during construction.

VIII. GENERAL :

1. The applicant shall maintain natural nallah & other such feature as in Revenue Survey map & adopting regulations of the concerned Planning authorities.
2. The applicant must create structure/storage facility for rain water harvesting and ground water recharge.
3. The applicant should make provisions for dual piping system to use the treated sewage water for toilet flushing, gardening and other purposes.
4. The applicant shall arrange for alternate power supply in the form of D.G.Set to run and operate the essential units of sewage treatment plant, in event of brake down of regular supply from Electricity Board.
5. The applicant shall implement the Environmental Management Plan during construction and after construction as given under EMP report.
6. The applicant shall not change or alter (a) No. of flats (b) building plan (c) the quality, quantity or rate of discharge/ emissions and (d) install/replace/alter the water or air pollution control measures without the prior approval of the Board.

Handwritten signature
SENIOR ENVIRONMENTAL OFFICER

7. The applicant shall immediately report to the Board of any accident or unforeseen act or event resulting in release of discharge of effluents or emissions or solid wastes etc., in excess of the standards stipulated, and the applicant shall immediately take appropriate corrective and preventive actions under intimation.
8. Exact date of commissioning of the sewage treatment plant shall be informed to this Board 45 days in advance so as to make necessary inspection of the plant and the pollution control measures provided by the applicant.
9. The applicant shall appoint a qualified Environmental Engineer/ Scientist for the Management of Environmental aspects and also establish Environmental Cell to oversee the operation of STP.
10. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
11. This CFE does not give any right to the Party/Project Authority to forego any legal requirement, which is necessary for setting/operation of the project.
12. The application shall adopt Eco-sanitation system in the project.
13. The applicant is liable to reinstate or restore, damaged or destroyed elements of environment at his cost, failing which, the applicant/occupier as the case may be shall be liable to pay the entire cost of remediation or restoration and pay in advance an amount equal to the cost estimated by Competent Agency or Committee.
15. The project authorities shall dispose scientifically Bio-Medical waste and electronic waste to authorized common disposal facility and authorized recyclers respectively by entering into agreement as per new Bio Medical Waste Management Rules, 2016 and E- Waste (Management) Rules, 2016.
16. The project authorities shall adopt green building concept.
17. The project authorities shall establish Environmental Cell during operation phase to comprehensively manage environment related issues.
18. Suitable local tree species shall be selected for greenery and minimum three rows of plant saplings shall be planted all-along the periphery of the site.
19. The applicant shall take all necessary steps not to cover the storm water drains within the vicinity of the project site & are desilted & kept clean at all times.
20. No sewage, solid waste and C & D waste should be put in the storm water drains and these drain should be encroachment free.
21. The project proponent shall provide necessary electrical charging facilities for battery operated vehicles in the car parking area.


SENIOR ENVIRONMENTAL OFFICER

Please note that separate consents of the Board for discharge of liquid effluent and the emissions to the air shall have to be obtained by remitting prescribed consent fee. The application for consent has to be made 45 days in advance to the completion of construction work of project. Issue of consent will be considered only after completion of Water pollution control measures, solid waste management facilities and installing air pollution control measures.

The receipt of this letter may please be acknowledged.

For and on behalf of
Karnataka State Pollution Control Board


SENIOR ENVIRONMENTAL OFFICER

