

Inspection Report of Sri. D.R. Kumaraswamy, Chief Environmental Officer-3, Bangalore-79.

Name of the industry	M/s. Katra Phytochem (India) Pvt. Ltd., No. 7, A-1, Attibele Industrial Area, Anekal Taluk, Bangalore-562107.
Date of inspection	25-06-2016
Regional Officers present (Sarjapura)	1. Sri Rajashekar, RO, Sarjapura, KSPCB, Bangalore. 2. Sri. Siddeshwara Babu, DEO, Sarjapura, KSPCB.
Factory authorities present	1. Sri. Bhasker-Quality and Safety Manager (9886853266). 2. Sri. Sathish- Plant In-charge (9538816504).
Consent status	Valid upto 30-06-2016 consent under both Acts.
Category	Large- Red, Capital Investment:- 18.43 Corres
Products manufactures as per consent in Kgs/month	1. Lutein Esters Concentrate - 750. 2. Lutein Concentrate – 1150. 3. Zeaxanthin Concentrate – 100. 4. Formulation of Lutein Esters Granules – 2500. 5. Lutein water dispersible – 1100. 6. Lutein Water Formulation – 2400. 7. Zeaxanthin Granules – 140.

The industry was inspected as per the Board Office letter No.PCB/09/EGV-14/1553, dated: 21-06-2016.

The factory was not in operation at the time of inspection. It was stopped for maintenance from 07-06-2016. The following observations were made during the inspection:

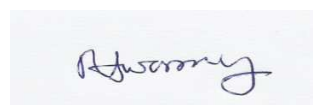
SI. No.	Consent Condition No.	Observations
1.	A.-1	There is no terminal manual to free collect the samples.
2.	A.-2	They have not provided water meter to measure the water consumption and discharge of treated effluent. They are purchasing water from outside tankers about 12 KLD and getting water from KIADB authority about 5 KLD. Total about 17 KLD.
3.	A.-3	Since there is no water meter there is no record of quantity of effluent discharge/day.
4.	A.-4	The factory authorities have informed that they have provided septic tank and soak pit as per IS 2470 part-I and part-II. The employee's quarters are just beside the road side and the septic tank is also nearby it. It was difficult to identify the septic tank and Soak Pit. The factory

		informed that there are cleaning the Septic tank trice a year, which indicates they have not provided Soak pit, and they also don't know where this domestic effluent his being discharged, which may be polluting water source.
5.	A.-5	There are not discharging effluents as per consent condition.
6.	A.-6	The cleaning of septic tank is out sourced and they don't know where this effluent his being disposed. There is no sufficient place to utilize treated trade effluent on land for gardening.
7.	A.-7	They are not separately constructed storm water drains.
8.	A.-8	The effluent treatment plant was not in operation at the time of the inspection. The factory authority informed that they have stopped the activity from 07-06-2016 due to maintenance. After verification it came to know that they are not scientifically operating the ETP. They have started ETP during April-2016 but there was no MLSS in the aeration tank which indicates they don't know how to operate the ETP.
9.	A.-9	<p>They have dumped the solid wastes (plastic paper etc..) one side of the industry in a open area. They dispose the same to some vender they don't know how the vender is segregating and disposing the wastes. They have not provided any secured place for storage of solid waste. The product lutein concentrate is collected in a drum and stored in the open area (not in a closed shed).</p> <p>The thick effluent and thin effluent are stored in underground storage area which may leads to seepage. This requires construction of storage tanks above the ground level.</p> <p>The factory authority have provided underground collection tanks for storage of treated effluents and back wash effluents from RO process. These tanks should be above the ground level to check the any seepage.</p>
10.	A.-10	They have not provided the separate flow meter to all the streams, they are submitting the quantity of water utilized for a different purpose by their experience. Not maintain the proper log book.
11.	B.-1	No comments.
12.	B.-2	<p>They have provided chimney heights as per the consent conditions. But following are the discrepancies.</p> <ol style="list-style-type: none"> 1. 7th APC – Fume cupboard they have to provided chimney 3mtrs above the roof level but not three meters. They have provided filters instated of scrubber. And they have also not provided port hole and plat form. 2. 8th APC – The reactors three No's are provided with vacuum pumps and finally connected to the wet scrubber at roof level after condenser. Chimney is not required. 3. 9th APC – The fluid bed dryer is not provided with port hole and plat form for monitoring.
13.	C.-a	They have provided a separate section for Hazardous waste but solid

		waste is not properly stored.
14.	C.-b	RO has to verify the records for proper disposal of hazardous waste.
15.	D.-a	No comments
16.	D.-b	DG sets are having acoustic enclosures.
17.	D.-c	RO has to monitor the Noise level.
18.	E.-a	No comments
19.	E.-b	They have not maintained the proper log book for working condition of the pollution control equipments.
20.	E.-c	There is no Environmental Cell and they have not employed Environmental Engineer/Scientist.
21.	F.-1	They have not provided the water meters.
22.	F.-2	They are submitting form-5 but it has to be properly analyzed by the RO.
23.	F.-3	The separate storm water drainage system is yet to be provided.
24.	F.-4	They have not displayed the flow diagram of pollution control system.
25.	F.-5	The septic tank and soak pit area is not at all approachable and not maintained.
26.	F.-6	No comments
27.	F.-7	No comments
28.	F.-8	They have not displayed the consent in a prominent place.
29.	F.-9	The RO has to be verify whether they have provided the alternative power supply to pollution control equipments.
30.	F.-10	Already explained in SI. No.12.
31.	F.11	No comments
32.	F.12	They have not maintained the Green Belt. They have not provided sufficient area for Green belt. Hence no expansion has to granted in future.
33.	F.13	Not provided rain water harvesting system.
34.	F.14	There is no qualified Environmental Engineer/Scientist.
35.	F.15.	The factory authorities have not made any attempt to obtain IS 14001 certificate.
36.	F.-16.	No comments
37.	F.-17	No comments
38.	F.18	No comments

Comments:- The factory authority have provided one diesel engine for fire hydrant but the same is not shown in the consent order. The factory authorities have not fully complied the consent condition hence they may be called for Personal Hearing and RO may directed to regularly inspect the industry till they comply all the conditions of the consent.

Enclosure: Inspection Photos



Chief Environmental Officer-3

Nisarga Bhavan, Bangalore-79.

STORAGE OF LUTEIN CONCENTRATE IN THE OPEN AREA AND ALSO THERE IS NO PLANTATION IN THAT AREA



SECENDORY SETTLING TANKS



CORRODED PLAT FORM OF ETP



DIFFUSED AERATION TANK WITHOUT MLSS



THICK EFFLUENT COLLECTION TANK (UNDERGROUND CAHNCES OF SEEPAGE)



THIN EFFLUENT COLLECTION TANK (UNDERGROUND CAHNCES OF SEEPAGE)



ACID TREATMENT UNIT TO THICK
EFFLUENT



SECONDARY SETTLING TANK AND OVERFLOW COLLECTION TANK BEFORE
FEEDING INTO THE RO PROCESS



PRIMARY SETTLING TANK FOR THIN EFFLUENT



Adwarany

Chief Environmental Officer-3
Nisarga Bhavan, Bangalore-79.