

**INSPECTION REPORT OF SRI K.M. LINGARAJU , SENIOR ENVIRONMENTAL OFFICER,
ZONAL OFFICE, KARNATAKA STATE POLLUTION CONTROL BOARD, MYSORE.**

Name & Address of the Industry inspected	M/s. Resonance Laboratories Pvt Ltd. Plot No. 8C & 9A, KIADB Indl area Doddaballapura, Bangalore rural dist.
Date of Inspection	18/02/2017
Officer Accompanied	Sri. AsifKhan-E.O., Regional Office, Doddaballapura Sri. Ashok Kumar S.R., D.E.O, Regional Office, Doddaballapura
Category and classification	Large-Red, Bulk Drugs and Pharmaceuticals
Products manufactured	Bulk Drugs and intermediates
Consent Status	The combined consent has lapsed on 30.06.2017, applied for further period.
HWM Authorization	The Authorization issued under HWM rules is valid up to 30.06.2020.
Persons contacted on behalf of the industry and discussion held	Dr. Tushar Gore, Partner Sri. Girish- Deputy Manager(Maintenance) Dr. Puranik-Production in charge

As per Board Office Memo number PCB/05/EGV-16/5724 dated 05.01.2017 pertaining to random inspection of organizations identified based on computerised risk assessment, M/s. Resonance Laboratories Private Limited, Plot No. 8C & 9A, KIADB Industrial Area, Doddaballapura, Bangalore rural district was inspected on 18.02.2017. The following observations were made during inspection.

Plant:

M/s. Resonance Laboratories Private Limited is an existing industry located at Plot No. 8C& 9A, KIADB Industrial Area, Doddaballapura and the unit is engaged in the production of bulk drug and intermediates. The total extent of land is about 8 Acres. In the previous combined consent issued to the industry (which has lapsed on 30.06.2016) they were permitted to manufacture the following products:

Sl. No.	Name of the product	Capacity
1	Impramine Hydrochloride	1.0 TPA
2	Mepyramine Maleate/Base	2.24 TPA
3	Oxyphenonium Bromide	0.50 TPA
4	Oxybutynin Chloride	2.0 TPA
5	Clidinium Bromide	2.0 TPA
6	Isopropomide iodide	0.5 TPA
7	Mebrophedrydamine Hydrochloride(MBH)	1 TPA
8	Carbinoxamine Maleate(CBM)	1 TPA
9	Buprenorphine Hydrochloride	0.05 TPA



View of the plant



View of Greenery



View of Greenery and Canteen

The industry has obtained CFE (Exp) from the Board vide letter no. H 528 dated 12/08/2015 and a corrigendum to the above CFE exp vide letter no. 254 dated 18/09/2015. As per the Corrigendum, CFE Exp is accorded for the following products given below;

Sl. No.	Name of the product	Capacity
1	Impramine Hydrochloride	1.0 TPA
2	Mepyramine Maleate/Base	0.70 TPA
3	Oxyphenonium Bromide	0.50 TPA
4	Oxybutynin Chloride(OBTN)	2.0 TPA
5	Clidinium Bromide(CLDB)	2.0 TPA
6	Isopropomide iodide(I I)	0.5 TPA
7	Mebrophedrydramine Hydrochloride(MBH)	1 TPA
8	Carbinoxamine Maleate(CBM)	1 TPA
9	Buprenorphine Hydrochloride(BPN HCL)	0.05 TPA
10	Atropine Sulfate	0.5 TPA

11	Baclofen	0.3 TPA
12	Glycopyrrolate	0.05 TPA
13	Homatropine Hydrobromide	0.15 TPA
14	Methyl Phenidate HCL	0.05 TPA
15	Homatropine Methyl bromide	0.5 TPA
16	Naloxone hydrochloride	0.02 TPA
17	Naltrexone Hdyrochlore	0.02 TPA
18	Pramoxine Hydrochloride	0.5 TPA
19	Ipatropium Bromide	0.02 TPA

CFE (Exp) is issued for additional products listed in Sl. No.10 to Sl. No.19 and for reduction in product in Sl. No.2 from 2.24 TPA to 0.70 TPA.

Status of EC and Consent:

- Obtained ECC from Department of Ecology and Environment, GOK vide NO. FEE 117 EPC 91 dated 20.08.1992 for the following products:

Sl. No.	Name of the product	Capacity
1	Impramine Hydrochloride	1.0 TPA
2	Amino Bengamidine Dihydro Chloride ABDA	3.2 TPA
3	Aceturic Acid	2.4 TPA
4	Mepyramine Maleate/Base	2.24 TPA
5	Phemiramine Maleate/Base	2.40 TPA

- The Industry has not obtained EC for other products.
- Combined Consent under the Water and the Air Act has lapsed on 30.06.2016.



View of Raw Materials storage



View of Plant Area

Water Pollution Control:

- The source of water is from bore wells. The water is collected in a reservoir, treated in water treatment plant and used for different purposes.
- Industry generates two types of industrial effluents viz., High TDS and Low TDS effluents.
- High TDS effluents are collected in a tank provided below ground level.
- Low TDS effluents are collected in tanks below ground level.
- The industry is disposing High TDS effluents to M/s Pai and Pai chemicals and Low TDS effluent to M/s Lidkar Tanners Private Limited for transportation treatment and disposal.
- *The industry has provided STP to treat the domestic effluent and the treated effluent is used for gardening within the industry premises.*
- *The final treated effluent from the holding pond of the STP was collected analysis.*



View of STP

APC status: The sources of Air pollution and its control measures are as indicated below:

Sl. No	Source	APC System provided
1	Steam Boiler-200 kgs/hr (Fuel HSD)	Common chimney of ht 21mts AGL
2	Steam Boiler- 600 kgs/hr (Fuel HSD)	
3	Thermic Fluid boiler-100000 K cal hr (Fuel HSD)	
4	100 KVA D.G-Set	5mts ARL
5	160 KVA D.G-Set	5 mts ARL
6	Reactors in Block-I	Common scrubber with chimney 3 M ARL
7	Reactors in Block-II	Common scrubber with chimney 3 M ARL
8	Reactors in Block-III	Common scrubber with chimney 3 M ARL



View of plant Area and Scrubber

Hazardous Waste (Management, Handling and transboundary) Movement, Rules-2008

Industry has obtained Authorization under HWM Rules which is valid up to 30/06/2020. The following are the different types of hazardous waste for which authorization obtained.

Waste category	Name of the Hazardous waste	Quantity for which authorization obtained	Accumulated quantity during inspection	Mode of Disposal
5.1	DG set used oil	0.5 KL/Annum	0.8 KL	Stored under shed and disposed to KSPCB Authorized M/s Centrury refineries
5.2	Wastes/residues containing oil	0.05 MT/Annum	5 KG	Stored under shed and disposed to KSPCB Authorized M/s Centrury refineries
28.1	Process residue and wastes(Distillation residue)	3.5 MT/Annum	5 Kg	Stored under shed and disposed to KSPCB Authorized M/s Centrury refineries
28.2	Spent carbon/Spent catalyst filter material	0.6 MT/Annum and 0.6 MT/Annum	NIL	Stored under shed and disposed to KSPCB Authorized M/s Centrury refineries
28.3	Off specification products/mask, glouse/shoe covers Contaminated packing material	0.3 MT/Annum 0.6 MT/Annum	NII	Stored under shed and disposed to KSPCB Authorized M/s Centrury refineries

Other observations:

- They have carried out manufacturing of the products: ***Glycopyrolate, Nalxone Hydrochloride, Atrophine Sulphate, Matrophine Hydrobromide, Homotrophine Bydrobromide, copper compound, Homotrophine Methyl bromide*** which are not having CFO. The discrepancies were highlighted by the RO and have been reported to B.O.
- Housekeeping inside the premises is good. They have taken up plantation in the vacant places of the industry and maintained greenery inside the plant.
- The industry has not taken CFO for the production of products for which CFExpn is issued from the Board office for additional products listed in Sl. No.10 to Sl. No.19 in the above product list.
- The trade effluents generated from the process (High TDS and Low TDS) was stored in tanks constructed below the ground level and handing over the effluents to CETP.
- Regarding providing of on line continuous monitoring system as per CPCB protocol, the industry has submitted a letter dated 13/11/2015, wherein they have stated that, since they are handing over effluents to CETP, they have installed web camera and flow meter.
- They have made separate yard for the storage of hazardous waste and provided the display board on hazardous waste. They are submitting returns.

Action to be taken:

- The industry shall obtain EC from the competent authority for the other products.
- The industry shall obtain CFO from the Board for manufacture of products mentioned as per CFE Exp.
- The industry shall be directed to provide collection tanks of trade effluents above the Ground Level.



(K.M. Lingaraju)

**Senior Environmental Officer
Zonal Office, KSPCB, Mysore**