



## ANDHRA PRADESH POLLUTION CONTROL BOARD

Patyavarana Bhavan, A-III, Industrial Estate,  
Sanathnagar, Hyderabad-500 018  
Phone : 040-23887500, Website : www.appcb.ap.nic.in

### RED CATEGORY CONSENT & AUTHORIZATION ORDER BY REGISTERED POST WITH ACKNOWLEDGEMENT DUE

**Consent Order No:** APPCB/VJA/NLR/10491/CFO/HO/2017- **Date:** 23.03.2017

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation under Rule 6 of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 & Amendments thereof and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

**M/s. Krebs Bio-Chemicals & Industries Ltd., (Change of Product Mix)  
Regadichelika (V), Kodavalur (M),  
SPSR Nellore District – 524 316, A.P  
E-mail: krebsnlr@gmail.com**

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

#### (i) Outlets for discharge of effluents:

| Outlet No. | Outlet Description   | Max Daily Discharge | Point of Disposal  |
|------------|--|---------------------|--|
| 01         | <b>Option – I products</b><br>Process & washes (from the Fermentation process) | 152.263 KLD         | After treatment to bio-composting process and the compost is to be utilized for Agriculture.   |
|            | <b>Option – II products</b><br>Process & wash from Synthetic processes         | 25.462 KLD          | <ul style="list-style-type: none"> <li>After treatment to ZLD (Stripper, MEE and ATFD).</li> <li>MEE condensate shall be treated along with fermentation effluent (bio-degradable) through bio-composting process.</li> <li>Salts to TSDF for secured landfill.</li> </ul> |
| 02         | Boiler & cooling tower blow downs and DM Plant back wash                       | 15 KLD              | After treatment, boiler blow down to be used for wetting the Boiler ash/ green belt development.   |
|            | Domestic   | 10 KLD              | Septic tank followed by soak pit.  |

#### ii) Emissions from chimneys:

| Chimney No. | Description of Chimney                              | Quantity of Emissions at peak flow (m <sup>3</sup> /hr) |
|-------------|---|---|
| 1.          | Stack attached to 1 x 1.0 TPH Coal fired Boiler     |   |
| 2.          | Stack attached to 1 x 2.0 TPH Coal fired Boiler     |   |
| 3.          | Stack attached to Incinerator of capacity 25 Kgs/hr |   |
| 4.          | Stack attached to DG Sets of capacity 1 x 600 KVA   |   |
| 5.          | Stack attached to DG Sets of capacity 1 x 320 KVA   |   |
| 6.          | Stack attached to DG Sets of capacity 2 x 200 KVA   |   |

#### iii) Hazardous Waste Authorisation (Form – II) [See Rule 6 (2)]:

M/s. Krebs Bio-Chemicals & Industries Ltd., (Change of Product Mix), SPSR Nellore District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• **Hazardous Wastes With Disposal Option:**

| S. No | Name of Hazardous Waste                         | Stream | Quantity          | Method of disposal                  |
|-------|---|--------|-------------------|-------------------------------------|
| 1.    | Incineration Ash                                |        | 30<br>kgs/Annum   | TSDF                                |
| 2.    | Spent Carbon                                    |        | 7.25 MTA          | TSDF for                            |
| 3.    | Distillation bottom residue                     |        | 34<br>KL/Annum    | incineration/Authorized             |
| 4.    | Process liquid organic waste<br>(Mother liquor) |        | 91.29<br>KL/Annum | cement plants for co-<br>processing |

• **Hazardous Wastes With Recycling Option:**

| S. No | Name of Hazardous Waste            | Stream | Quantity          | Method of disposal   |
|-------|------------------------------------|--------|-------------------|--|
| 1.    | Inorganic salts from MEE           |        | 18 TPA            | TSDF   |
| 2.    | Spent Oil/Used Oil                 |        | 600 LPA           | Authorized reprocessors/<br>recyclers                            |
| 3.    | Containers and Container<br>liners |        | 600<br>No's/annum | After complete<br>detoxification disposed to<br>outside Agencies |
| 4.    | Used Lead acid batteries           |        | 10<br>No's/annum  | On buy back basis to<br>supplier.                                |
| 5.    | ETP Sludge (organic waste)         |        | 300 TPA           | Biocomposting process  |

This consent order is valid for the following products\* along with quantities indicated only:

| S. No            | Product*                                    | Quantity (Kgs/day) |
|------------------|---|--------------------|
| <b>Group - A</b> |   |                    |
| 1.               | EC Dehalogenese enzyme                      | 130.00             |
| 2.               | Enzyme -B                                   | 256.00             |
| 3.               | Tacrolimus                                  | 1.0                |
| 4.               | Sirolimus                                   | 1.0                |
| 5.               | Oligosacharide-A                            | 100.00             |
| 6.               | Levitracetam                                | 85.0               |
| 7.               | 4-Androstenedione (4-AD)                    | 200.00             |
| 8.               | Androsta-1, 4-diene-3, 17-dione (ADD)       | 200.00             |
| 9.               | 9-Hydroxy 4-androstenedione (9 OH AD)       | 201.00             |
| <b>Group - B</b> |   |                    |
| 1.               | Cilostazol Adsorbate                        | 87.0               |
| 2.               | Oflaxacin                                   | 131.50             |
| 3.               | Minocycline Hydrochloride                   | 66.0               |
| 4.               | Citicoline Sodium                           | 33.00              |
| 5.               | Montelukast Sodium                          | 33.00              |
| 6.               | Etoricoxib                                  | 33.00              |
| 7.               | ATS-8                                       | 200.00             |
| 8.               | Telmisartan                                 | 200.00             |
| 9.               | Amlodipine Besylate                         | 200.00             |
| 10.              | Cetirizine Hydrochloride                    | 200.00             |
| 11.              | Phenylephrine                               | 200.00             |
| 12.              | CPD(1,2-Cyclopentanedicarboxylic acid)      | 200.00             |
| 13.              | AID (N-aminocyclopentane-1,2-dicarboximide) | 200.00             |

\*The industry is permitted to manufacture the products under Group-A and Group-B in the following options:

**Option-I:** Three products are manufactured at any time i.e. two products from Group-A to a maximum capacity of 100 % and one product from Group-B at 75 % production capacity.

**Or**

**Option-II:** Three products are manufactured at any time i.e. two products from Group-B to a maximum capacity of 100 % and one product from Group-A at 75 % production capacity.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorization shall be valid for a period ending with the **28<sup>th</sup> February, 2022.**

Sd/-

**MEMBER SECRETARY**

To

M/s. Krebs Bio-Chemicals & Industries Ltd., (Change of Product Mix)  
Regadichelika (V), Kodavalur (M),  
SPSR Nellore District – 524 316, A.P

//T.C.F.B.O//

10/20/2022  
30/3/22

Joint Chief Environmental Engineer  
(UH: IV)

SCHEDULE-A

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
2. The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
4. The industry should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.
5. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
6. The industry shall file the water cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit water cess as per the assessment orders as and when issued by Board.
7. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E (P) Rules, 1986 & amendments thereof.

8. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
9. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.

### SCHEDULE-B

#### **Water Pollution:**

1. The industry shall comply the following effluent standards based on the disposal points permitted:

| Outlet | Parameter                                      | Concentration |
|--------|--|---------------|
| 1.     | pH   | 5.50 – 8.50   |
|        | Total Suspended Solids (TSS at 103 – 105°C)    | 100 mg/l      |
|        | Total Dissolved Solids                         | 2100 mg/l     |
|        | Oil and Grease                                 | 10.0 mg/l     |
|        | Chemical Oxygen Demand                         | 250 mg/l      |
|        | Biochemical Oxygen Demand (BOD at 27°C 3 days) | 100 mg/l      |

2. The source of water being Ground water. The following is the permitted water consumption:

| S. No | Purpose                                    | Quantity in KLD |                |
|-------|--|-----------------|----------------|
|       |  | Option - I      | Option - II    |
| 1.    | Process & washings                         | 145.0           | 87.896         |
| 2.    | Boiler & Cooling tower make up /blow downs | 60.00           | 60.00          |
| 3.    | Domestic                                   | 15.00           | 15.00          |
|       | <b>Total</b>                               | <b>220.0</b>    | <b>162.896</b> |

Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above for Cess assessment purpose.

3. The industry shall provide containers detoxification facility. Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to low TDS collection tank.
4. The industry shall provide separate storm water drains and provide rain water harvesting structures. No effluents shall be discharged in to the storm water drains.
5. The industry shall not operate the unit until erection and commissioning of total ZLD system with stripper, MEE and ATFD and report compliance to RO: Nellore.
6. The ETP shall be stabilized before commencement of the production and report compliance to RO: Nellore.
7. The industry should not discharge effluents onland or into any water bodies under any circumstances and zero liquid discharge system should be adopted.
8. The industry should submit total quantity of waste water generated, quantity of press mud available at present and future procurement sources. The industry should immediately submit the details of press mud procurement made by them on monthly basis to the RO: Nellore, APPCB.

### Air Pollution:

9. The emissions shall not contain constituents in excess of the prescribed limits mentioned below:

| Chimney No. | Parameter   | Emission Standards         |
|-------------|---|----------------------------|
| 1 & 2       | Particulate Matter                                | 115 mg/Nm <sup>3</sup>     |
| 3           | Particulates                                      | 30 mg/Nm <sup>3</sup>      |
|             | HCl   | 50 mg/Nm <sup>3</sup>      |
|             | SO <sub>2</sub>                                   | 200 mg/Nm <sup>3</sup>     |
|             | CO  | 100 mg/Nm <sup>3</sup>     |
|             | Dioxins/Furans                                    | 0.1 ng TEQ/Nm <sup>3</sup> |
|             | Total organic carbon                              | 20 mg/Nm <sup>3</sup>      |
|             | NOx   | 400 mg/Nm <sup>3</sup>     |
|             | Hydrocarbons                                      | 10 PPM                     |
|             | HF  | 4 mg/Nm <sup>3</sup>       |
|             | <b>Metals:</b>                                    |                            |
|             | Cd+Th (and its compounds)                         | 0.05 mg/Nm <sup>3</sup>    |
|             | Hg (and its compounds)                            | 0.05 mg/Nm <sup>3</sup>    |
|             | Sb+As+Pb+Cr+Co+ Cu+ Mn +Ni +V (and its compounds) | 0.5 mg/Nm <sup>3</sup>     |

10. The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10µm) - 100 µg/ m<sup>3</sup>; PM2.5 (Particulate Matter size less than 2.5 µm) - 60 µg/ m<sup>3</sup>; SO<sub>2</sub> - 80 µg/ m<sup>3</sup>; NOx - 80 µg/m<sup>3</sup>, outside the factory premises at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009.

Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)  
Night time (10 PM to 6 AM) - 70 dB (A)

11. The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.
12. The industry shall ensure the efficiency of Air Pollution Control systems including incinerator before commencement of production and report compliance to RO: Nellore.
13. The applicant shall provide separate energy meters for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.
14. The industry shall incinerate the mother liquor within own incinerator.
15. The industry should regularly submit the incinerator parameters and submit the monitoring reports to RO, Nellore on monthly basis.

### General:

16. The industry shall maintain flow meters preferably Electro Magnetic flow meters with totalisers for water and effluent quantity measurements for different streams of effluents and different categories of water usage stipulated in this order.
17. The drums containing chemicals / solvents shall be stored under a roof on elevated platform with a provision to collect leakages / spillages in the collection pit.
18. The industry install online continuous effluent and emission monitoring systems and connect monitoring system to APPCB/CPCB websites as per CPCB directions dated 05.02.2014. The online monitoring system shall be calibrated periodically as per equipment suppliers manual / CPCB guidelines.

19. The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:
- Daily production details (ER-1 Central Excise Returns).
  - Quantity of Effluents generated, treated, recycled/reused and disposed.
  - Log Books for pollution control systems.
  - Characteristics of ambient air, effluents and emissions.
  - Hazardous/non hazardous solid waste generated and disposed.
  - Inspection book.
  - Manifest copies of hazardous waste.

20. The industry shall dispose solid waste (NON HAZARDOUS ) as follows

| S. No | Name of the Solid Waste | Quantity | Disposal                    |
|-------|-------------------------|----------|-----------------------------|
| 1.    | Boiler ash              | 2.0 TPD  | Sold to brick manufacturers |

21. The industry shall provide VOC monitoring system with auto recording facility before starting the production and report compliance to RO: Nellore.
22. The industry should regularly submit month wise details of production of Bio-compost and quantity of disposal of bio-compost to the office of RO: Nellore, APPCB.
23. The industry shall comply with emission standards & guidelines notified by the EFS&T Department, Go. AP for individual incinerators and should notify the performance evaluation test report of the incinerator for public information as per GO Ms No.65 dated 08.05.2008 and should submit the compliance report to RO, Nellore
24. The industry shall manufacture only consented products and permitted quantities only.
25. The industry shall develop green belt in all the vacant places. In future, excess green belt over and above 33 % of total area can be utilized for industrial activity as per requirement of industry.
26. The industry shall comply with CPCB directions dated 05.02.2014 and 02.03.2015 regarding installation of online effluent and stack emission monitoring systems before starting the production and report compliance to RO: Nellore.
27. The industry shall submit a copy of policy of Public Liability Insurance (PLI) duly indicating the amount contributed towards Environmental Relief Fund (ERF) to the RO once in six months.
28. The industry shall comply with standards and directions issued by CPCB / MoEF & CC as and when notifications are issued.
29. The industry shall submit compliance report on the conditions mentioned in the consent order every six months i.e., on 1<sup>st</sup> of January and July of every year to the Regional Office/ Zonal Office.

**SCHEDULE - C**  
**[See rule 6 (2)]**

**[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING  
HAZARDOUS WASTES]**

- All the rules and regulations notified by Ministry of Environment and Forests, Government of India under the E (P) Act, 1986 in respect of management, handling, transportation and storage of the Hazardous wastes should be followed.
- The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
- The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
- The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.

5. The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

Sd/-  
MEMBER SECRETARY

To

M/s. Krebs Bio-Chemicals & Industries Ltd., (Change of Product Mix)  
Regadichelika (V), Kodavalur (M),  
SPSR Nellore District – 524 316, A.P

//T.C.F.B.O//

*Wlas*  
*50/3/17*  
Joint Chief Environmental Engineer  
(UH: IV)

