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. Kanoria Chemicals & Industries Limited,
Plot Nos. 50 & 51, Block –C, APIIC,
Naidupeta Industrial Park- Naidupet,
Menakur Village, Naidupet Mandal,
SPSR Nellore District.

(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:

<table>
<thead>
<tr>
<th>Outlet No.</th>
<th>Outlet Description</th>
<th>Waste water generation as per CFE, dated 14.08.2018.</th>
<th>Max Daily Discharge from formaldehyde plant</th>
<th>Point of Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Process &amp; washings (Trade effluents)</td>
<td>200 KLD</td>
<td>150.0 KLD</td>
<td>After treatment in ETP followed by Two Stage RO Plant, MEE &amp; ATFD. RO permeate and MEE condensate shall be recycled into the process &amp; cooling tower make up.</td>
</tr>
<tr>
<td>2.</td>
<td>Domestic</td>
<td>6 KLD</td>
<td>6.0 KLD</td>
<td>Treated in Sewage Treatment Plant and treated water is reused.</td>
</tr>
</tbody>
</table>

ii) Emissions from chimneys:

<table>
<thead>
<tr>
<th>Chimney No.</th>
<th>Description of Chimney</th>
<th>APC Equipment Provided</th>
<th>Limiting Standard</th>
<th>Board Monitoring Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Stack attached to DG Set of capacity 1 x 500 KVA</td>
<td>Platinum bed catalytic converter followed by 25M stack</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>2</td>
<td>Common Stack attached to process emissions for 3 Reactors of each 90 TPD capacity.</td>
<td>Acoustic enclosure with silencer</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

iii) Solid Waste/Haz. Waste details:

<table>
<thead>
<tr>
<th>S. N.</th>
<th>Name of the waste (Garbage)</th>
<th>Quantity of waste</th>
<th>Disposal Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td>Domestic waste (Garbage)</td>
<td>100 Kgs/day</td>
<td>Shall be disposed to APIIC Garbage dumping site</td>
</tr>
</tbody>
</table>
2) MEE Salts/ ETP sludge 500 TPA Shall be disposed to TSDF
3) Insulation waste 10 TPA
4) Waste Oil 2500 LPA Shall be disposed to recyclers/ reprocessors/ TSDF site for land filling
5) Empty barrel carbuoys 1500 Nos./Annum
6) Used Lead Acid batteries 5 Nos./year Shall be disposed on buy back system
7) Metal oxide catalyst 5 MT/Year Shall be disposed to Original supplier for regeneration

This consent is valid for the following products along with quantities indicated only.

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the Product</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Formaldehyde (37% to 55%)</td>
<td>111600 MTPA or 9300 MTPM</td>
</tr>
<tr>
<td>2</td>
<td>Power Generation through back pressure turbine using waste heat recovery (WHRPP)</td>
<td>800 KWH</td>
</tr>
</tbody>
</table>

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 of 5 years i.e. up to 31.08.2024.

To
M/s. Kanoria Chemicals & Industries Limited,
Plot Nos. 50 & 51, Block –C, APIIC,
Naidupeta Industrial Park- Naidupet,
Menakur Village, Naidupet Mandal,
SPSR Nellore District.

Copy to:
1. The JCEE, Zonal Office, Vijayawada for information and necessary action.
2. The EE, Regional Office, Nellore for information and necessary action.

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 provide the water meters for all streams and shall record the water consumed for all streams. The industry shall clear dues of the water cess amount, as the Water Cess (Prevention & Control of Pollution) Cess Act, 1977.

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

1. The industry shall handover the Original Consent Order. 241/APPCB/CFE/RO-NLR/HO/2018-, dated 16.09.2019 to the RO: Nellore after receipt of this order and shall note that the same stands cancelled on issue of this order.

Water Pollution:

2. The industry shall take steps to reduce water consumption to the extent possible and consumption shall not exceed the quantities mentioned below:

<table>
<thead>
<tr>
<th>S. No</th>
<th>Purpose</th>
<th>Quantity, KLD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Industrial cooling, boiler feed</td>
<td>520.00</td>
</tr>
<tr>
<td>2</td>
<td>Domestic &amp; Gardening purposes</td>
<td>50.00</td>
</tr>
<tr>
<td>3</td>
<td>Processing, whereby water gets polluted and pollutants are easily bio-degradable</td>
<td>---</td>
</tr>
<tr>
<td>4</td>
<td>Processing, whereby water gets polluted and the pollutants are not easily bio-degradable</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>570 KLD</strong></td>
</tr>
</tbody>
</table>

3. The industry shall provide digital flow meters with totalisers at the inlet and outlet of ETP, RO, MEE and Stripper.

4. The industry shall segregated effluents into different streams i.e. High TDS and Low TDS, effluents and shall treat effluents accordingly.

5. The industry shall operate Zero Liquid Discharge (ZLD) system for the treatment of trade effluent and shall recycling the MEE and ATF condensate for utilities.

6. The industry shall install online real time monitoring system along with web camera facilities as per the directions of CPCB. The industry shall connect them to APPCB / CPCB websites as per CPCB directions. The online monitoring system shall be calibrated periodically as per equipment suppliers manual / CPCB guidelines.

7. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. All pipe valves, sewers, drains shall be leak proof.

8. The industry shall provide stream stripping to handle volatile matters in effluents.

9. The industry shall not store trade effluents in underground tanks and all the ZLD units shall be constructed above the ground level.

10. The industry shall not discharge any trade effluents in to the APIIC drains / on land or into any water bodies or aquifers under any circumstances.
11. There shall not be any spillages of chemicals / effluents on ground. The drums containing chemicals and waste shall be store on elevated platform under shed with a provision to collect leachate / spillages in the collection pit in no case drums shall be stored on the open ground.

**Air Pollution:**

12. The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10µm) - 100 µg/ m³; PM2.5 (Particulate Matter size less than 2.5 µm) - 60 µg/ m³; SO2 - 80 µg/ m³; NOx - 80 µg/m³, 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)


14. The industry shall provide online VOC monitoring system with auto recording facility.

15. The applicant shall provide Separate energy meters for Air pollution Control equipments and to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.

16. The industry shall maintain multi-stage scrubbers provided to the process vents to control the process emissions. The industry shall provide online pH measuring facility with auto recording system to the scrubbers provided to treat the process emissions.

17. The industry shall implement adequate measures to control all fugitive emissions from the plant.

18. The proponent shall not use or generate odour causing substances or Mercaptans and cause odour nuisance in the surroundings.

19. The industry shall send the used / spent solvents to the recyclers (or) process them at their own solvent recovery facility within the premises.

20. The evaporation losses in solvents shall be controlled by taking the following measures:
   i) Cooling water circulation shall be provided in place of chilled brine circulation as committed in CEO meeting and shall take necessary measures for effectively reducing the solvent losses into the atmosphere.
   ii) Transfer of solvents shall be done by using pumps instead of manual handling.
   iii) Platinum bed catalytic converter shall be used in place of closed centrifuges as committed in CEO meeting shall be used to reduce the escape of solvents and rector vents.
   iv) All the solvent storage tanks shall be connected with vent condensers primary and secondary to prevent solvent vapor emissions.

21. The industry shall maintain separate power consumption records pertaining to pollution control equipment.

**General:**

22. Green belt shall be maintained all along the boundary & vacant spaces, outside the premises with tall growing trees with good canopy and it shall not be less than 33% of the total area.

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

24. The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Regional Office and Zonal Office of the Board.
25. 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.
26. The industry shall comply with standards and directions issued by CPCB / MoEF & CC as and when notifications are issued.
27. 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.
28. The following rules and regulations notified by the MoEF&CC, GoI shall be implemented.
   b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
   c) Fly Ash Notification, 2016.
   d) Batteries (Management & Handling) Rules, 2010.
29. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.
30. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.
31. 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 such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution)Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

**SCHEDULE – C**

**[See rule 6 (2)]**

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

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as
spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;

6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.

7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.

8. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.

9. An application for the renewal of an authorisation shall be made as laid down under these Rules.

10. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

11. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

12. The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

13. 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.

14. 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.

15. 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.

To
M/s. Kanoria Chemicals & Industries Limited,
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