



**RED CATEGORY
CONSENT & AUTHORIZATION ORDER**

Consent Order No: APPCB/VIA/VIA/14347/HO/CFO/2019-

Date: 24.09.2019

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. Porus Laboratories Pvt. Ltd., Unit – IV (Change of Product Mix)
Sy. No. 87, 92/10,106/1C, 106/2C, 107/2A,
107/2B, 107/3, 108/1B, 108/2,
Akkireddygudem (V),
Musunuru (M), Krishna District
E-mail: prasadarao.matsa@poruslabs.com

The Consent Order No. APPCB/VJA/VJA/14347/HO/CFO/2019, dated 08.05.2019, issued to the industry having validity upto 31.03.2024, Consent Amendment Order No. APPCB/VJA/VJA/14347/HO/CFO/2019, dated 14.08.2019 and Consent Order No. APPCB/VJA/VJA/14347/HO/CFO/2019, dated 17.09.2019 having validity up to 31st March 2024 stands cancelled and the industry shall hand over the cancelled orders to the Regional Office: Vijayawada after receipt of this Consent Order.

(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
1	Process, DM plant, Scrubber,	406.2 KLD	HTDS effluents are treated in stripper (15KL/hr), MEE (15KL/hr), ATFD (3KL/hr). The process condensate and LTDS effluents are treated in ETP consisting of Collection cum equalization cum neutralization, Aeration, Pressure sand filter, Activated carbon filter followed by RO (13KL/hr). Treated effluents and process condensate is re-used for utilities.
2	Q.C. and R&D, washing, Boiler blow down, Cooling bleed off and MEE steam condensate.		
3	Domestic	8.0 KLD	Treated in Biological ETP (12KLD) followed by RO plant and treated effluents are re-used for utilities.

ii) Emissions from chimneys:

Chimney No.	Description of Chimney	Control equipment	Stack height
1	Attached to 8 TPH Coal/Husk/Pellets fired Boiler.	Multi Cyclone Separator & Bag-filter	30 m
2	Attached to Process emissions	Scrubber with water/caustic solution	-
3	Attached to 500 KVA DG Set	Acoustic enclosure	9m
4	Attached to 500 KVA DG Set	Acoustic enclosure	9m

5	Attached to 1 x 380 KVA D.G. Set	Acoustic enclosure	8 m
6	Attached to 1 x 320 KVA D.G. Set	Acoustic enclosure	8 m

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

M/s. Porus Laboratories Pvt. Ltd, Krishna District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

- Hazardous Waste with Disposal Option:

S No.	Name of the Hazardous Waste	Stream	Quantity	Method of disposal
1	Organic residue	28.1 of Schedule - I	4.5 TPD	TSDF, Parawada, for incineration / Authorized Cement plants for co-processing.
2	Spent carbon	28.3 of Schedule - I	1.32 TPD	
3	Distillation bottom Residue (1% of spent solvents)	36.1 of Schedule - I	0.6TPD	
4	Inorganic & Evaporation salts(process)	28.1 of Schedule - I	40.5TPD	TSDF, Parawada for secured land fill.
5	Evaporation salts (Non-process)	--	1TPD	
6	ETP sludge	35.3 of Schedule - I	2.5TPD	
7	Detoxified Containers & Container Liners a) HDPE Drums b) Carbouys	33.1 of Schedule - I	250Nos /Annum	After complete detoxification, it shall be disposed to outside agencies.
	• Plastic Bags	--	50kg/month	
8	Used Lead acid batteries	9.1 of Schedule - I	25Nos /Annum	To dealers on buy back basis
9	Misc. Waste (spill control waste)	--	6TPA	To TSDF, Parawada for further treatment and disposal.
10	Used insulation waste ,PVC scrap, HDPE&PP scrap, Paper waste, used thermocouple waste, Glass scrap, Iron scrap, SS scrap, Aluminium & other metal scrap, cotton waste (used aprons/uniformsetc.,)Packing wood etc.,	--	0.25TPD	To TSDF, Parawada, for incineration / Authorized Cement plants for co-processing/authorized agencies

- Hazardous Waste with Recycling Option:

S No.	Name of the Hazardous Waste	Stream	Quantity	Method of disposal
1	Used oil / Waste lubricant oil/Grease	5.1 of Schedule - I	1KL /Annum	Authorized preprocessors / recyclers.
2	Spent solvents	28.6 of Schedule - I	60KLD	Shall be recovered within the premises/ to authorised agency for recovery.
3	Recovered Solvents from spent solvents	28.6 of Schedule - I	54KLD	Reused
4	Spent Mixed solvents	36.1 of Schedule - I	5KLD	To authorized recovery units/Authorized cement plant for co-processing
5	Spent Catalyst	28.2 of Schedule - I	2TPA	Sent for re-generation

This consent order is valid to produce the following products along with quantities indicated only:

Sl.No.	Name of the products	Proposed quantity (Kg/day)
1	P-Phenolphthalein bisphenol (or) 2-Phenyl-3,3-Bis (4-Hydroxy Phenyl) Phthalimide (PPPBP)	4055.67
2	1,5-Bis-[2,6-dimethyl-4-(2-methyl-2-propenoxy) phenyl]-penta-(2,6-dimethyl-1,4-phenyleneoxide (MX-9000)	4000
3	Tetramethyl bisphenol acetone (TMBPA)	276.67
4	4-Nitro-N-methyl phthalimide (4-NPI)	13889.0
5	Sumatriptan Succinate	16.7
6	R&D Activity	0.55
	Total	22238.59

List of By-Products:

Name of the By-products	Quantity (kg/day)
Spent Sulfuric Acid	245126
(or)	(or)
Gypsum	75000

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 **31st March, 2024**.

CHAIRMAN

**S
To**

**M/s. Porus Laboratories Pvt. Ltd., Unit – IV (Change of Product Mix)
Sy. No. 87,92/10,106/1C, 106/2C,107/2A,
107/2B, 107/3, 108/1B, 108/2,
Akkireddygudem (V),
Musunuru (M), Krishna District.**

Copy to:

1. The JCEE, ZO: Vijayawada for information and necessary action.
2. The EE, RO: Vijayawada 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 shall 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 shall 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 shall 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 shall 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 source of water being Bore well within the industry premises. The following is the permitted water consumption:

After Change of Product Mix (Phase-I):

S.No.	Purpose	As per CFE Order dt. 08-08-2019. (KLD)	Proposed Quantity as per CFO application
1	Process	323.4	323.4
2	Scrubber	5	5
3	Q.C. and R&D	1	1
4	Washings	5	5
5	Boiler	67	67
6	Cooling makeup	120	120
7	DM Plant	5	5
8	Domestic	10	10
9	Green belt	10	10
	Total	546.4	546.4

2. Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above.
3. The treatment system consisting of stripper, MEE, ATFD with condenser, Biological ETP, RO plant shall be installed and commissioned. All the units of the treatment system shall be impervious to prevent ground water pollution. The units of treatment system shall be constructed above the ground level.
4. Effluents shall not be discharged on land or into any water bodies or aquifers under any circumstances.
5. The industry shall provide digital flow meters with totalisers at the inlet and outlet of Stripper, MEE, ETP and RO.

6. Floor washings 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.
7. The industry shall provide digital flow meters with totalizer facility at the outlet of Stripper, inlet and outlet of MEE i.e., MEE concentrate and MEE condensate, inlet of ATFD, RO permeate and RO reject and maintain records.
8. The industry shall suitably change the digital flow meter location to RO Permeate tank and also change the location of the web camera to RO permeate tank for real time monitoring of recycling of RO permeate in consultation with RO:Vijayawada.
9. The industry shall operate RO of 13 KL/hr capacity continuously, for further treatment of treated effluents of ETP and RO permeate shall be utilized for utilities.
10. The industry shall send the used / spent solvents to the recyclers (or) process them at their own solvent recovery facility within the premises.
11. The industry shall send the used/ spent solvents to the recyclers (or) process them at their own solvent recovery facility within the premises and the solvents bearing effluents shall be scrubbed before sending to CETP.
12. The industry shall strictly maintain ZLD in closed circuit system. There shall not be any discharge /spillages of effluent within or outside the premises.

Air Pollution:

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

Chimney No.	Parameter	Limiting Standards for Stack	Standards for Fugitive emissions limit at work zone
1	H ₂ SO ₄	50 mg/Nm ³	1.0 mg/m ³
2	HCl	35 mg/Nm ³	7.0 mg/m ³
3	SPM	115 mg/Nm ³	---

2. The industry shall comply with ambient air quality standards of PM₁₀ (Particulate Matter size less than 10µm) - 100 µg/ m³; PM_{2.5} (Particulate Matter size less than 2.5 µm) - 60 µg/ m³; SO₂ - 80 µg/ m³; NO_x - 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)

3. 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.
4. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
5. The industry shall properly operate and maintain the monitoring system to all the stacks / vents in the plant. Regular monitoring shall be carried out and report shall be submitted to the Regional officer.
6. The industry shall properly operate and maintain multi-stage scrubbers to the process vents to control the process emissions. The industry shall ensure that online pH measuring facility with auto recording system is connected to the scrubbers.
7. The industry shall properly operate and maintain VOC monitoring system with auto recording facility.

8. The industry shall implement adequate measures to control all fugitive emissions from the plant.
9. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, GoI vide notification No. GSR. 826 (E), dated. 16.11.2009 during construction and regular operational phase of the project at the periphery.
10. The proponent shall not use or generate odour causing substances or Mercaptans and cause odour nuisance in the surroundings.
11. The evaporation losses in solvents shall be controlled by taking the following measures:
 - i) Chilled brine circulation shall be carried out to effectively reduce the solvent losses into the atmosphere.
 - ii) Transfer of solvents shall be done by using pumps instead of manual handling.
 - iii) Closed centrifuges shall be used to reduce solvent losses.
 - iv) All the solvent storage tanks shall be connected with vent condensers to prevent solvent vapours.
 - v) The reactor vents shall be connected with primary & secondary condensers to prevent escaping of solvent vapour emissions into atmosphere.
12. The industry shall provide monitoring ports to the stacks / vents immediately and report compliance to the RO: Vijayawada.
13. The industry shall provide vent condensers to solvent storage tanks immediately and report compliance to the RO: Vijayawada
14. The industry shall provide scrubber with water/caustic solution for controlling HCL process emissions; scrubber with water to control Monomethyl amine process emissions; scrubber with water to control SO₂ process emissions and Diffused with flame arrestor for process H₂ emissions.
15. The industry shall properly operate and maintain multi-stage scrubbers to the process vents to control the process emissions.
16. The industry shall ensure that online pH measuring facility with auto recording system is connected to the scrubbers.
17. The industry shall implement adequate measures to control all fugitive emissions from the plant. The proponent shall not use or generate odour causing substances or Mercaptans and cause odour nuisance in the surroundings.

General:

18. The industry shall send the used / spent solvents to the recyclers (or) process them at their own solvent recovery facility within the premises.
19. The proponent shall place the chemical drums and / or any drums in a shed provided with concrete platform only. The Platform shall be provided with sufficient dyke wall and effluent collection system. 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.
20. The industry shall comply with the following as committed vide letter dt. 18.07.2019:
 - a) The industry shall change the location of digital flow meter and web camera to RO Permeate storage tank for real time monitoring of recycling of RO permeate.
 - b) Necessary instruments shall be provided as per the SOPs and checklist for solvent recovery unit as specified by CPCB.
21. 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.
22. There shall not be any spillages of chemicals / effluents on the ground. 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.
23. The industry shall provide dyke walls for above ground chemical storage tanks.

24. The industry shall provide permanent pipelines for transfer of chemicals / effluents and shall not use flexible pipes for transfer of chemicals / effluents.
25. The industry shall operate online 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.
26. 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 hazardous waste.
27. The industry shall dispose solid waste (NON HAZARDOUS) as follows

S. No	Name of the Solid Waste	Quantity	Disposal
1.	Kitchen waste from canteen	0.1TPD	To Municipal dump yard/Composting
2.	Boiler Ash	12TPD	To brick manufacturer

28. The industry shall comply with the Regulation of Persistent Organic Pollutants Rules, 2018 notified by the MoEF&CC Notification vide G.S.R. 207 (E) dated 30.05.2018. As per the notification, the following 7 chemicals are prohibited to manufacture, trade, use, import and export.
 - i) Chlordecone,
 - ii) Hexabromobiphenyl,
 - iii) Hexabromodiphenyl ether and heptabromodiphenyl ether (commercial octa-BDE)
 - iv) Tetrabromodiphenyl ether and pentabromodiphenyl ether (commercial penta-BDE)
 - v) Pentachlorobenzene,
 - vi) Hexabromocyclododecane; and
 - vii) Hexachlorobutadine
29. Existing green belt shall not be disturbed due to the proposed expansion. Thick green belt shall be maintained all along the boundary & vacant spaces with tall growing trees with good canopy and it shall not be less than 33% of the total area.
30. The industry shall install and maintain online continuous effluent 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.
31. 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.
32. The industry shall comply with standards and directions issued by CPCB / MoEF&CC as and when notifications are issued.
33. The industry shall comply with the Standard Operating Procedure (SOP) and Checklist of Minimal Requisite Facilities for Utilization of Spent Solvent for Recovery of Solvent specified for Solvent Recovery Units issued by CPCB.
34. The industry shall follow the SOP for Safe and Scientific Spent Solvent Handling, Processing and Storage.
35. 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.
36. The industry shall submit compliance report on the conditions mentioned in the consent order every six months i.e., on 1st of January and July of every year to the RO / ZO.
37. The industry shall obtain CFE amendments for change in products name and waste water generation quantity for making necessary corrections in their CFO & HWA orders.

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 or its renewal 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. An application for the renewal of an authorisation shall be made as laid down under these Rules.
9. 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.
10. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
11. The authorised person shall not store hazardous waste for more than 90 days as per the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.
12. The authorised person 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.
13. The authorised person 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.
14. The authorised person shall maintain proper records for Hazardous & other wastes stated in Authorization 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 6 (5) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and amendments thereof by June 30th for the period ensuring 31st March of the year.
15. The authorised person shall submit the condition wise compliance report of the conditions stipulated in Schedule A, B & C of this Order on half yearly basis to Board Office and concerned Regional Office.

CHAIRMAN

To

**M/s. Porus Laboratories Pvt. Ltd., Unit – IV (Change of Product Mix)
Sy. No. 87, 92/10,106/1C, 106/2C,107/2A, 107/2B, 107/3, 108/1B, 108/2,
Akkireddygudem (V), Musunuru (M), Krishna District.**