



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

Consent Order No : APPCB/VSP/VSP/12342/CFO/HO/2016-

Date: 30.04.2016

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 5 of the Hazardous Wastes (Management, Handling & Transboundary, Movement) Rules, 2008 & Amendments thereof and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. Andhra Petrochemicals Ltd.,
Opp: Naval Dock Yard,
Post Box No. 1401,
Visakhapatnam – 530 014
Email: info.vskp@andhrapetrochemicals.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 KLD	Point of Disposal
1	Process Effluents - 45 KLD + Boiler Blow Down - 100 KLD + Auxiliary Cooling - 110 KLD + Softener / DM Plant / RO plant - 60 KLD + Sea water cooling - 3,119 KLD after Treatment	3434	Effluents after treatment discharged into Open Meghadrigedda Channel which ultimately Joins to Sea.
2.	Domestic Effluents	90	After treatment in STP for gardening.

ii) Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions at peak flow (m ³ /hr)
1.	Attached to 15 TPH MP Boiler	--
	Attached to 12 TPH LP Boiler	--
2.	HP flare stack	--
3.	LP flare stack	--
4.	Attached to 3 x 2270 KVA D.G. Sets	--
	Attached to 750 KVA D.G. Sets (Standby)	--

iii) **HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 5 (4)]:**

M/s. The Andhra Petrochemicals Ltd., Opp. Naval Dock Yard, Post Box No: 1401, Visakhapatnam 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 the Hazardous waste	Stream	Quantity	Method of disposal
1.	ETP Sludge	34.3 of schedule – I	6 MTPA	TSDF, Parawada, Visakhapatnam District.

• **HAZARDOUS WASTES WITH RECYCLING OPTION:**

S.No	Name of the Hazardous waste	Stream	Quantity	Method of disposal
1.	Used Oils	5.1 of Schedule - I	10 KLPA	Authorised Reprocessors / Recyclers.
2.	Spent Rhodium catalyst	1.7 of Schedule - I	2000 Kg / 10 years.	Should be sent to authorised reprocessors.
3.	Detoxified Containers & Container Liners of HW & Hazardous chemicals.	33.3 of Schedule - I	500 Nos/annum	After complete detoxification, it shall be disposed of to outside agencies.
4.	Oxo Residue	1.1 of Schedule – I	4,000 MTPA	Should be sent to authorised agencies for Reprocessing (or) Used as fuel within the plant in MP & LP Boilers.
5.	Spent Catalysts	1.7 of Schedule - I	50 MTPA	Should be sent to authorised agencies for regeneration.

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

S.No.	Product	Quantity
1.	2 Ethyl Hexanol	200 TPD / 55200 TPA
2.	Normal Butanol	78 TPD / 26000 TPA
3.	ISO Butanol	8.4 TPD / 2800 TPA
4.	Oxo-residue (By Product)	12.5 TPD

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 day of December, 2020.

Sd/-
MEMBER SECRETARY

To
M/s. Andhra Petrochemicals Ltd.,
Opp: Naval Dock Yard,
Post Box No. 1401,
Visakhapatnam – 530 014
Copy to :

1. The JCEE, Zonal Office, Visakhapatnam for information and necessary action.
2. The JCEE (Cess), APPCB, Hyderabad for information.
3. The JCEE(HWM), APPCB, Hyderabad for information.
4. The Environmental Engineer, Regional Office, Visakhapatnam for information and necessary action.

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

o/c

[Signature]
Joint Chief Environmental Engineer
Unit Head-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. Not withstanding 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	Limiting Standards
1	pH	6.5 – 8.5
	Chromium Hexavalent	0.10 mg/l
	Chromium Total	2.00 mg/l
	Total Suspended Solids	100 mg/l
	Phenols	1.00 mg/l
	Cyanides as CN	0.20 mg/l
	Chemical Oxygen Demand	250 mg/l
	Biochemical Oxygen Demand	30 mg/l
	Sulphide (as S)	2.00 mg/l
2	pH	6.5 – 8.5
	Suspended Solids	100 mg/l
	Oil & grease	10 mg/l
	Biochemical Oxygen Demand (3 days @ 27 ^o C)	100 /l

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

S.No.	Purpose	Total
1.	Boiler Feed	390 KLD
2	DM Plant	60 KLD
3	Auxiliary Cooling	110 KLD
4	Fire Water	20 KLD

5	Gardening / Irrigation	50 KLD
6	Domestic	100 KLD
	Total	730 KLD
7	Sea water for cooling	4700 KLD
	Grand Total	5430 KLD

The source of water GVMC & Borewells. The following is the permitted water consumption:

Sl. No.	Purpose	Quantity (KLD)
1	Industrial cooling, boiler feed.	5090
2	Domestic / Gardening purposes.	150
3	Process, whereby water gets polluted and pollutants are easily bio degradable.	
4	Processing, whereby water gets polluted and the pollutants are not easily bio – degradable.	130
	Total	5320

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.

- The industry shall operate Sewage Treatment Plant (STP) for treatment of domestic effluents continuously and report the compliance to RO, Visakhapatnam.
- The industry shall consistently achieve all effluent discharge standards stipulated in this order by improving the performance of ETP.
- The industry shall prevent odour from ETP area by taking all necessary measures.

AIR POLLUTION:

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

Chimney No.	Parameter	Emission Standards
1 to 3	Particulate matter	50 mg/Nm ³

- 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)

- The industry shall operate 1 CAAQM station for monitoring SPM, SO₂, NO_x, VOCs, Ammonia with recording facility and connected to PCB website.
- 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 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Act Rules. 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.

5. The industry shall maintain online stack monitors to measure SPM, CO, Hydro Carbons, NO_x, SO₂ for boilers and submit monthly reports to RO-Visakhapatnam. The industry shall monitor SO₂, CO, SPM, HC in Naphtha reformer stack and fired heaters and submit monthly reports to RO-Visakhapatnam.
6. Periodic check for leak detection using portable gas monitors/ultra sonic leak detectors to check and control fugitive emissions.
7. The industry shall keep the DG sets as standby.
8. The industry shall ensure that all HCs & VOCs are burnt in flare stack.
9. The industry shall maintain digital display at the gate for displaying the CAAQM and stack analyzers results
10. The industry shall operate two strippers provided to control High COD persistent organic pollutants in the effluents.

GENERAL:

1. 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.
2. 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.
3. The industry shall comply with CPCB directions dated 05.02.2014 / 02.03.2015 and guidelines issued regarding online monitoring systems issued from time to time.
4. 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.
 - c. Log Books for pollution control systems.
 - d. Characteristics of effluents and emissions.
 - e. Hazardous/non hazardous solid waste generated and disposed.
 - f. Inspection book.
 - g. Manifest copies of effluents / hazardous waste.
5. 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.
6. The industry shall meet the norms prescribed for marine coastal areas regarding discharge of treated effluents.
7. The industry shall install online CEMS exclusively at the outlet of the ETP i.e., before mixing with the once through cooling system.
8. The industry is letting out the filtrate effluents from the filter beds along with the treated effluents. This shall be diverted to the raw effluent sump for further treatment.
9. The industry shall operate mist sprayers to control SPM from the boilers.
10. The industry shall submit monthly monitoring reports on effluents, stack emissions, VOCs and AAQ to Board Office under copies to Regional Office and Zonal Office, Visakhapatnam.
11. The industry shall comply with Task Force directions issued from time to time and recommendations issued as part of CEPI implementations. Regarding COD reductions in the effluent, the industry shall explore state of the art technologies if any, to reduce COD to 5000 mg/lit.

SCHEDULE - C

[See rule 5(4)]

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

1. 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.
2. The industry shall not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.
3. 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.
4. The industry shall maintain 6 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 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 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.
6. The industry 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, Hyderabad and concerned Regional Office.

Sd/-

MEMBER SECRETARY

To
M/s. The Andhra Petrochemicals Ltd,
Opp. Naval Dock Yard,
Post Box No. 1401,
Visakhapatnam - 530 014

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

Kulav
6/5/16.
Joint Chief Environmental Engineer
Unit Head-IV

