



ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada - 520 010
Phone. No.0866-2463200, Website : www.appcb.ap.nic.in

RED CATEGORY
CONSENT & AUTHORISATION ORDER

Consent Order No : APPCB/VSP/VZN/53/CFO/HO/2019-

04/10/2019

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 & Other Wastes (Management and Transboundary, Movement) Rules, 2016 and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. NAEL Industries Limited,
(Change of product mix)
Plot No. 177, Arinama Akkivalasa (V),
Allinagaram Post, Etcherla (M),
Srikakulam District
E-mail: cvr@naelind.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) Out lets for discharge of effluents:

Outlet No.	Outlet Description	Quantity (KLD)	Point of Disposal
1	Process Effluents - HTDS	75	<ul style="list-style-type: none"> To Steam stripper followed by evaporation in Multiple Effect Evaporators MEE condensate shall be sent to biological ETP. MEE concentrate shall be sent to ATFD. Salts shall be disposed to the TSDF.
2	Incinerator / Rotary Kiln / All Wet Scrubbers Bleed Off	35	
3	Process Effluents - LTDS	40.5	<ul style="list-style-type: none"> After biological treatment, treated effluents shall be sent to RO plants. RO Rejects to MEE followed by ATFD / Spray Drier. RO Permeate to reuse for process / cooling tower makeup.
4	Boiler Blow Down & Cooling Tower Blow Down - LTDS	184	
5	Domestic Effluent After pretreatment	25	

ii) Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions at peak flow
1.	Attached to 16 TPH New Boiler (coal fired)	11,736 m ³ /hr
	Attached to 10 TPH Coal Fired Boiler	
2.	Attached to 6 TPH oil fired Boiler (standby)	18,530 m ³ /hr
3.	Attached to Hot Oil Heater	
4.	Attached to rotary kiln-II of 90 TPD	
5.	Attached to rotary kiln-I of 30 TPD (Standby)	
6.	Process Vents attached to	--
	Ortho Chloro Phenol formation stage in Profenofos production block	--
	Profenofos production block	--
	Dichlorovos production block	--
	Propiconazole production block	--
	Tricyclazole production block	--
	Isoxaben production block	--
	Bromine Recovery Plant	--
	Pretilachlo production block	--
	Thifluzamide production block	--
	Fenbucanazole production block	--
	DMBCP production block	--
7.	Attached to 1 x 1000 KVA and 2 x 500 KVA D.G. Sets	--

iii) HAZARDOUS WASTE AUTHORISATION (FORM - II) [See Rule 6 (2)]:

M/s. NACL Industries Limited (Formerly M/s.Nagarjuna Agrichem Limited), Arinama Akkivalasa (V), Etcherla (M), Srikakulam 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 RECYCLING OPTION:

S. No	Name of the hazardous waste	Stream	Quantity	Method of disposal
1	Process Liquid residues (Organic)	29.1 of Schedule - I	127.2 TPM	Incineration in their own premises / Authorised cement plants for co-processing / AFRF for pre processing and onward disposal to cement industries for co-processing
2	Distillation bottom residues	20.3 of Schedule - I	7.8 TPM	
3	Used Oil / Spent Lubricating Oil	5.1 of Schedule - I	0.3 TPM	Authorized re-processors / recyclers.
4	Containers and container Liners of Hazardous chemicals • HDPE Drums	33.1 of Schedule - I		After complete detoxification, it shall be disposed of to outside agencies.

	• HDPE Bags		3600 Nos/Annu m. 1400 Nos/Annu m	
5	Spent Solvents	20.2 of Schedule - I	1347.9 TPM	Shall be recovered in solvent recovery plant within the premises / to Cement industries for co-processing

• HAZARDOUS WASTES WITH DISPOSAL OPTION:

S. No.	Name of the hazardous waste	Stream	Quantity	Disposal option
1	ETP Sludge	29.4 of Schedule - I	1.0 TPM	TSDF, Parawada, Visakhapatnam District.
2	Inorganic Salts from Rotary kiln / ATFD	29.1 of Schedule - I	505 TPM	
3	Incineration Ash	37.2 of Schedule - I	0.07 TPM	

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

S. No.	Name of the Product	Quantity (TPD)							
		Group - 1	Group - 2	Group - 3	Group - 4	Group - 5	Group - 6	Group - 7	Group - 8
1	Profenofos	9.5	6.0	5.5	7.5	9.0	5.0	15.5	15.0
2	Propiconazole Bromoketal (Intermediate)	2.0	3.5	3.0	1.0	1.0	0.5	0.0	0.0
3	Tricyclazole	1.0	2.5	2.0	1.0	1.0	0.5	0.0	0.0
4	Myclobutanil	0.3	0.3	0.3	0.3	0.3	0.1	0.0	0.0
5	Pretilachlor	4.3	4.7	6.5	4.0	6.0	5.0	0.0	0.0
6	Thifluzamide	0.5	0.1	0.5	0.4	0.5	0.6	0.5	0.65
7	Flucarbazone Sodium	0.55	0.2	0.185	0.7	0.4	0.6	0.0	0.0
8	Tebuconazole/ Oxirane	0.0	0.25	0.2	0.1	0.0	0.2	0.0	0.75

.	(Intermediate)								
9	Hexaconazole	0.0	0.1	0.2	0.1	0.0	0.1	0.0	0.0
10	Difenthiuron	0.0	0.1	0.2	0.1	0.0	0.1	0.0	0.0
11	Imidacloprid	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0
12	Epoxiconazole	0.0	0.1	0.5	0.1	0.1	0.1	0.0	0.0
13	Cyproconazole	0.0	0.5	0.1	0.1	0.1	0.1	0.0	0.0
14	Omethoate	0.5	0.7	0.6	0.7	0.8	0.4	0.0	0.0
15	Metribuzin	0.3	0.5	0.5	0.5	0.1	0.2	0.0	0.0
16	Pendimethalin	0.0	0.1	0.1	1.0	0.1	0.1	0.0	0.0
17	Clodinafop	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0
18	Difenoconazole	0.0	0.2	0.05	0.1	0.1	0.1	0.0	0.0
19	Quizalafop P Ethyl	0.0	0.1	0.1	0.3	0.5	1.25	0.0	0.0
20	Thiamethoxam	0.0	0.2	0.1	0.3	1.5	0.2	0.0	0.0
21	Bispyribac Sodium	0.0	0.1	0.095	0.2	0.0	0.1	0.0	0.0
22	Tefluthrin	0.0	0.0	0.0	0.45	0.1	0.2	0.0	0.0
23	Cloquintocet Mexyl	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
24	2,3 Dichloro Pyridine	0.15	0.06	0.06	0.4	0.5	0.3	0.0	0.0

25	Cypermertharin	0.0	0.35	0.0	0.15	0.1	0.1	0.0	0.0
26	Carbendazim	0.0	0.0	0.08	0.35	0.0	0.1	0.0	0.0
27	Trifloxystrobin	0.0	0.0	0.0	0.0	0.15	0.15	0.0	0.0
28	Azoxystrobin	0.0	0.1	1.0	0.15	0.2	0.1	0.0	0.0
29	Bifenthrin	0.05	0.0	0.08	0.15	0.15	0.1	0.0	0.0
30	Thiophanate Methyl	0.0	0.05	0.05	0.05	0.05	1.75	0.0	0.0
31	Verbenone	0.05	0.15	0.0	0.0	0.15	0.15	0.0	0.0
32	(Z)-hezatec - 11-en-1-yl acetate	0.05	0.15	0.0	0.15	0.1	0.15	0.0	0.0
33	(Z)-hezatec - 9- enal	0.05	0.15	0.09	0.0	0.15	0.15	0.0	0.0
34	Trimedlure	0.05	0.15	0.09	0.1	0.1	0.1	0.0	0.0
35	(8E,10E) -Dodoca-8, 10- dien-1-ol	0.05	0.15	0.0	0.1	0.1	0.15	0.0	0.0
36	7Z,11Z hexadeca dienyl acetate	0.05	0.15	0.09	0.1	0.1	0.15	0.0	0.0
37	7E, 9Z dodoca dienyl acetate	0.05	0.1	0.09	0.1	0.1	0.15	0.0	0.0
38	8Z Dodecinylnyl acetate	0.05	0.1	0.15	0.1	0.1	0.1	0.0	0.0
39	(Z)-Octadeca -13 - enyl acetate	0.05	0.1	0.09	0.1	0.1	0.15	0.0	0.0

40.	R & D products	0.05	0.05	0.05	0.05	0.05	0.05	0.0	0.05
41.	Triazinone / Thricarbohydrazi de / Dichloro Pinacolene / Pinacolene	10.0	7.84	7.0	8.9	6.0	9.4	7.0	9.5
42.	Lambda- cyhalothrin	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.55
43.	Fipronil	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
44.	Ethephon	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
45.	Glufosinate- ammonium	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
46.	Clethodim	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
47.	S-Metolachlor	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
48.	Tribenuron methyl	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
	Total (TPD)	29.65	30.0	29.95	30.0	30.0	29.15	30.0	30.0
	No. of Products	22	35	35	36	35	41	10	10

The industry shall manufacture only one group at any point of time.

By-products:

S. No.	Product	Bi-Products	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
1	Profenophos	25% HBr Solution	9.04	5.71	5.23	7.14	8.56	4.76	14.75	14.27
		25% NaBr Solution	18.48	11.67	10.70	14.59	17.50	9.72	30.14	29.17
2	Propiconazole	25% HBr	2.36	4.13	3.54	1.18	1.18	0.59	0.0	0.0

		Solution								
3	Tricyclazole	25% HCl	0.81	2.02	1.61	0.81	0.81	0.40	0.0	0.0
4	Myclobutanil	25% NaBr	1.05	1.05	1.05	1.05	1.05	0.35	0.0	0.0
5	Pretilachlor	25% HCl	4.01	4.38	6.06	3.73	5.60	4.66	0.0	0.0
6	Hexaconazole	30% HCl	0.00	0.04	0.08	0.04	0.00	0.04	0.0	0.0
7	Difenoconazole	KCl, KHCO ₃	0.00	0.03	0.01	0.02	0.02	0.02	0.0	0.0
8	Quizalafop P Ethyl		0.00	0.05	0.05	0.15	0.26	0.64	0.0	0.0
9	Quizalafop-P Tefuryl	HCL	0.00	0.30	0.30	0.91	1.52	3.79	0.0	0.0
10	Bifenthrin	HCL	0.00	0.00	0.01	0.01	0.01	0.01	0.0	0.0
11	Tribenuron Mythyl	Ethanol	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13

This order is subject to the provisions of 'the Acts' and the Rules' and orders made there under 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 Authorisation shall be valid for a period ending with the 28th day of February, 2021.

BANDLA SIVA SANKARA PRASAD, CHAIRMAN, O/o
CHAIRMAN-APPCB

To
M/s. NACL Industries Limited,
Plot No. 177, Arinama Akkivalasa (V),
Allinagaram Post, Etcherla (M),
Srikakulam District

Copy to:

1. The JCEE, Zonal Office, **Visakhapatnam** for information and necessary action.
2. The Environmental Engineer, Regional Office, **Srikakulam** 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. 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 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.
7. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under H&OW (M&TM) Rules, 2016 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.
8. 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 No. APPCB/VSP/VZN/53/CFO/HO/2018, dated 23.08.2018, having validity upto 28.02.2021 to the RO, Srikakulam after receipt of this order and the same stands cancelled from the date of receipt of this order.

WATER POLLUTION:

2. The source of water is Ground Water (Bore wells)*. The following is the permitted water consumption:

S. No.	Purpose	Quantity (KLD)
a)	Process	83.0
b)	Boiler Feed	158.0
c)	Cooling (Makeup) for process and utilities	279.0
d)	Domestic	30.0
e)	Gardening	40.0
Total :		590.0

* The industry shall obtain necessary amendment in the Environmental Clearance from the MoEF&CC, New Delhi regarding the source of raw water.

3. The industry shall maintain separate meters with necessary pipe-line for assessing the quantity of water used for each of the purposes mentioned above.
4. The industry shall segregate the effluents into i) High TDS & High COD, ii) Low TDS & Low COD, iii) utility blow down streams and shall be treated as stipulated streams at source & adopt requisite treatment to maintain zero liquid discharge (ZLD).
5. The industry shall collect the above mentioned effluent streams in above ground level collection tanks separately.
6. The industry shall maintain magnetic digital flow meters with totalisers at following points: a. Inlet of Stripper. b. Inlet of MEE. c. Outlet of MEE. d. Inlet and outlet of ETP, e. Inlet and outlet of RO Plants.
7. The industry shall ensure that forced evaporation system for HTDS effluents consisting of stripper, MEE & ATFD and Effluent Treatment Plant (ETP) shall be operated regularly. All the units of the stripper, MEE & ATFD system shall be impervious and shall be above the ground level.
8. The industry shall ensure that effluents shall not be discharged onland or any water bodies or aquifers or outside under any circumstances. Floor washings shall be admitted into effluent collection system only and shall not be allowed to find their way into storm water drains or open areas.
9. The industry shall improve the ETP equalization tank and shall maintain minimum 1 feet buffer to avoid overflow of the effluent.
10. There shall not be any spillages of chemicals / effluents on ground. The drums containing chemicals & wastes shall be stored on elevated platform under shed with a provision to collect leachate / spillages in the collection pit. In no case the drums shall be stored on the naked open ground.
11. Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to collection tank after characterization.
12. The wash water/rain water from the MEE, incinerator & RO plant areas shall be routed to the ETP for treatment and shall not be allowed to mix with storm water.
13. The industry shall provide mechanical seals to the MEE, Rotary Kilns and Spray Dryers to avoid leaking of the effluent.
14. Proper drainage system shall be maintained so that rain water shall not be allowed to mix with either trade or domestic effluents.
15. The built up in TDS in waste water or floor washings of the incinerator shall not exceed 1000 mg/lit over and above the TDS of raw water.
16. The industry shall construct rainwater runoff tank for collection and storage of first flush storm water. The industry shall maintain dry condition

outside drains in non-rainy season. Storm water shall be channelized through separate drains passing through a HDPE lined pit having capacity of 10 minutes (hourly average) of rainfall.

17.The industry shall maintain 3 Nos. of piezo wells in the industrial premises to check the ground water quality at regular intervals and submit the report to RO, Srikakulam.

18.The industry shall carry out the monitoring for all Pesticides which are being produced or proposed to be produced in the ground water at regular intervals in the upstream and down streams of the industry. The consolidated monitoring results shall be submitted to the concerned Regional Office, APPCB.

19.The industry shall evaporate the scrubber liquid from Bromine recovery plant in the MEE system.

AIR POLLUTION:

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

Chimney No.	Parameter	Emission Standards
1 to 3	Particulate Matter	115 mg/Nm ³
4 & 5*	Particulate Matter	50 mg/Nm ³
	Hcl	50 mg/Nm ³
	SO ₂	200 mg/Nm ³
	CO	100 mg/Nm ³
	Total Organic Carbon	20 mg/Nm ³
	HF	4 mg/Nm ³
	NO _x	400 mg/Nm ³
	Hydrocarbons	10 PPM
	Dioxins/Furans	0.1 ng TEQ/Nm ³
	Metals	
	Cd + Th (and its compounds)	0.05 mg/Nm ³
	Hg (and its compounds)	0.05 mg/Nm ³
	Sb + As +Pb + Cr + Co + Cu + Mn + Ni + V (and its compounds)	1.5 mg/Nm ³
* All monitored values shall be corrected to 11 % Oxygen on dry basis. The CO2 concentration in tail gas shall not be less than 7 %		
6	HCl	20 mg/Nm ³
	Cl ₂	5 mg/Nm ³
	H ₂ S	5 mg/Nm ³
	P ₂ O ₅ (as H ₃ PO ₄)	10 mg/Nm ³
	NH ₃	30 mg/Nm ³
	Particulate matter with pesticides compounds	20 mg/Nm ³
	CH ₃ Cl	20 mg/Nm ³

HBr	5 mg/Nm ³
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21. Primary combustion chamber of the incinerator shall be maintained more than $850 \pm 50^{\circ}\text{C}$ and Secondary Combustion temperature shall be maintained more than $1050 \pm 50^{\circ}\text{C}$.
22. The industry shall maintain online stack analyser to the stack connected to boiler, incinerator and process vents and submit reports every month to RO, Srikakulam.
23. The industry shall comply the standards for emission and discharges for all other parameters as per the standards notified by MoEF, Vide GSR No. 446 (E), Dt.13.06.2011. and amendments thereof, for Pesticides manufacturing & Formulation industry.
24. The industry shall comply with emission limits for DG sets 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 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.
25. The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10 micro grams) - 100 micro gram/ m³; PM2.5 (Particulate Matter size less than 2.5 micro grams) - 60 micro gram/ m³; SO₂ - 80 micro gram/ m³; NO_x - 80 micro gram/ m³, Ammonia - 400 micro gram/ m³; Benzene- 5 micro gram/ m³; 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).
26. The industry shall maintain dedicated multi stage scrubbers to the process vents to control the process emissions, NH₃, SO₂, HCl, Bromine and other gaseous emissions. The industry shall maintain online pH monitoring system to the scrubbers provided to treat the process emissions. Scrubbed liquid shall be recycled as far as possible and finally shall be sent to stripper, MEE followed by ATFD for terminal treatment.
27. The details of chemicals consumption used in the scrubber should be recorded and kept accessible for the inspection officials of the Board.
28. The industry shall ensure that the emissions containing Bromine gases shall be routed through water scrubber, caustic scrubber provided in series. The vent of the caustic scrubber shall be dipped into dilute caustic soda lye for effective removal of Bromine in the emissions.
29. The industry shall maintain spent bromine recovery unit within the premises and the recovery efficiency of Bromine recovery unit shall not be less than 99%.
30. The industry shall properly operate and maintain VOC monitoring system with auto recording facility.
31. The industry shall implement adequate measures for control all fugitive emissions from the plant.
32. The industry shall not use or generate odour causing substances or Mercaptans and cause odour nuisance in the surroundings.
33. The evaporation losses in solvents shall be controlled by taking the following measures:

- a. Chilled brine circulation shall be carried out to effectively reduce the solvent losses into the atmosphere.
 - b. Transfer of solvents shall be done by using pumps instead of manual handling.
 - c. Closed centrifuges shall be used to reduce solvent losses.
 - d. All the solvent storage tanks shall be connected with vent condensers to prevent solvent vapours.
- 34.The reactor vents shall be connected with primary & secondary condensers to prevent escaping of solvent vapour emissions into atmosphere.
- 35.The Industry shall carry out the LDAR (Leak Detection and Rectification) programme for all process areas including pipelines, at least once in a quarter and ensure that the fugitive emissions are eliminated.
- 36.The industry shall continuously operate CAAQM stations (3 Nos). The industry shall provide and maintain VOC analyser in the CAAQM stations within 3 months.
- 37.The industry shall maintain odour control measures such as scrubbers for TMA, H₂SO₄ emissions, Dry vacuum pumps, Nitrogen blanketing for storage tanks, Common ducting system with extraction system to production blocks for control of odor.
- 38.The industry shall calibrate the online emission monitors, CAAQM stations, VOC monitors and other sensors at regular intervals. The industry shall inform the RO, Srikakulam about the calibration schedule and calibration shall be done in presence of the Board officials.
- 39.The industry shall provide & maintain online continuous emission monitoring system to the incinerator stacks and shall connect the data to the APPCB & CPCB servers. Rotary kiln shall be maintained with online connection to APPCB website indicating parameters like VOC, SOX, NOX, SPM values in the stack, temperature primary & secondary combustion chambers.

GENERAL

- 40.The industry shall not manufacture new products and not exceeding the production quantity without CFE / CFO of the Board.
- 41.The industry shall ensure that there shall not be any change in the process technology, source of raw material and scope of working without prior approval from the Board.
- 42.The industry shall conduct Health studies and Cholinesterase test for the employees exposed by the National Institute of Occupational Health, (Ahmedabad, Bangalore, and Kolkotta) and the results of the studies shall be submitted to Board every six months.
- 43.Industry shall take action on recommendations on health studies carried out on the employees of M/s. NAACL Industries Ltd.,
- 44.The industry shall connect the temperature sensors attached to Rotary kiln to APPCB website.
- 45.The Industry shall not cause odour nuisance in and around surrounding of the industry.
- 46.The industry shall feed liquid raw materials through closed pumping to reactors and tanks to reduce the odour nuisance.
- 47.The industry shall store all raw materials in closed area reduce the odour nuisance.

- 48.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.
- 49.The industry shall evaluate the performance of solvent recovery system for each stream-wise and shall furnish plan of action to maintain the solvent recovery efficiency more than 95% for every stream.
- 50.Under no circumstances, the Hazardous Waste shall be burnt in the boiler.
- 51.The industry shall take up the recovery of TMA (Tri Methyl Amine) completely before sending to the incinerator.
- 52.The industry shall contain the smell problem and shall avoid the accumulation of hazardous wastes in their premises beyond the permitted limits. In case the industry fails to comply, the Board will take action against the industry which may include the reduction of production capacities drastically.
- 53.The industry shall isolate the storage of highly flammable chemicals, solvents & other raw materials from the rest of facilities in the plant premises. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
- 54.The industry shall isolate the storage of highly flammable chemicals, solvents & other raw materials from the rest of facilities in the plant premises.
- 55.The industry should submit mock drill report carried out at least once in six months, as required under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- 56.The industry shall develop green belt in all the vacant places within three months. In future, excess green belt over and above 33 % of total area can be utilized for industrial activity as per requirement of industry.
- 57.The industry shall ensure that there shall not be any additional pollution load in any form from the proposed change of product mix on no increase in pollution load.
- 58.The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Board.
- 59.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. The online monitoring system shall be calibrated periodically as per equipment suppliers manual / CPCB guidelines.
- 60.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 manufacturer, trade, use, import and export:
- a. Chlordecone,
 - b. Hexabromobiphenyl,
 - c. Hexabromodiphenyl ether and heptabromodiphenyl ether (commercial octa-BDE),
 - d. Tetrabromodiphenyl ether and pentabromodiphenyl ether (commercial penta-BDE),

- e. Pentachlorobenzene,
 - f. Hexabromocyclododecane and
 - g. Hexachlorobutadine.
- 61.The industry shall renew the PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Srikakulam on yearly base.
 - 62.The industry shall update the information in OCEMS - Industry Information Data Entry Software for Compliance Reporting Protocol in PART-II (Sections F & G) Every Quarter on 1st January, 1st April, 1st July and 1st October through this software system.
 - 63.Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.
 - 64.Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.

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. 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.

Specific Conditions:

- 10.The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
- 11.The industry shall enter an agreement with the Cement industries for disposal of incinerable waste or shall dispose to Alternative Fuel Raw material facility (AFRF) OR to TSDF for co-incineration.
- 12.The industry shall transport the hazardous waste to cement industries through GPS vehicle.

- 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.
- 16.The industry shall comply with the provisions of HWM Rules, 2016 in terms of interstate transport of Hazardous Waste and manifest document prescribed Under Rule 18 and 19 of the HWM Rules, 2016.
- 17.Hazardous Waste annual return shall be filed by June 30th for the period ensuring 31st March of the year.

The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishment (CFE) and Consent for Operation (CFO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the industry and second half yearly compliance reports shall be the audited through MoEF&CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party.

**BANDLA SIVA SANKARA PRASAD, CHAIRMAN, O/o
CHAIRMAN-APPCB**

To
M/s. NACL Industries Limited,
(Formerly M/s. Nagarjuna Agrichem Limited),
Plot No. 177, Arinama Akkivalasa (V),
Allinagaram Post, Etcherla (M),
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