



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 021.

Website : www.gpcb.gov.in

**GPCB**

By R.P.A.D.

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under rule 3(c)& 5(5) of the Hazardous Waste (Management and Handling and Trans boundary Movement) Rules '2008 framed under the E (P) Act-1986. This Board is empowered to grant CC&A.

And whereas Board has received consolidated consent application vide No **84344** Dated **02/09/2014** for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts. Consent & Authorization is hereby granted as under.

## CONSENT AND AUTHORISATION:

(Under the provisions / rules of the aforesaid environmental acts)

TO,

M/s SAURASHTRA CHEMICALS DIVISION OF NIRMA LIMITED,  
BILRLASAGAR, VILL: CHHAYA, PORBANDAR- 360576,  
TA: & DIST: PORBANDAR.

- Consent Order No.: AWH- 66634 Date of issue: 02/12/2014.
- The consent shall be valid up to 08/09/2019 for the use of outlet for the discharge of treated effluent & air emission and to operate industrial plant for manufacture of the following items / products:

Sr. No.	Product	Quantity
1	Soda Ash (Light)	28000 MT/Month
2	Caustic Lye (100 %)	620 MT/Month
3	Soda Ash (Dense)	6000 MT/Month
4	Sodium Bi-Carbonate	1100 MT/Month
5	Liquid Bromine	20 MT/Month
6	Power (Captive Power plant)	20 MW
7	Flash Condensate	20 MP/Hr (14400 M <sup>3</sup> /Month)
8	Distilled Water	70 M <sup>3</sup> /Hr (50400 M <sup>3</sup> /Month)

## 3. CONDITIONS UNDER THE WATER ACT:

- The quantity of trade effluent to be generated from the factory shall not exceed 169960 KL/day.
- The quantity of sewage wastewater from the factory shall not exceed 1000 KL/day.

## 3.3 TRADE EFFLUENT

- The quantity of the treated effluent as per GPCB norms mentioned in Column No.2.

PARAMETERS	GPCB NORMS
pH	6.5 To 9.0
Temperature	45° C
Suspended Solids	1300 mg/l
Oil and Grease	02 mg/l
Ammonical Nitrogen	05 mg/l
Bio-assay test	90 % survival of fish after 96 hour in 100 % effluent

- All efforts shall be made to remove colour & unpleasant odour as far as practicable.
- The effluent conform to the above standards shall be discharged into Arabian sea beyond lowest tide water level through closed pipeline and Diffuser system.
  - Domestic effluent shall be disposed off through septic tank/soak pit system.
  - The disposal point mentioned in the condition no: 3.3.2. shall be studied time to time through NIO OR any other competent Authority of Central Govt for safe disposal of effluent into the sea. The report should be submitted to this board.
  - The quantity of rejected effluent from the desalination plant shall not exceed 57.60,000 Lt/day and rejected waste water shall be used as dilution and total quantity of trade effluent shall not exceed 169960 KL/day.

## 4. CONDITIONS UNDER THE AIR ACT:

- The following shall be used as fuel:

Sr.No.	Fuel	Quantity
1	Coal	801.6 TPD
2	Lignite	1572.9 TPD
3	LSHS	52.8 TPD
4	LDO	2700 KL/Year

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- 4.2 The applicant shall install & operate air pollution control system in order to achieve norms prescribed below.

- 4.2.1 The flue gas emission through stack attached shall conform to the following standards:

Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control Measures	Parameter	Permissible Limit
1.	Boiler-1	30	Cyclone	Particulate Matter SO <sub>2</sub> NO <sub>x</sub>	150 mg/NM <sup>3</sup> 100 ppm 50 Ppm
2	Boiler-2	30	Cyclone		
3	Boiler-3	30	Cyclone		
4	Boiler-4	30	ESP		
5	Boiler -7	30	ESP		
6	D.G.Set(1500 KVA)	20	--		
7	Boiler-8 & 9	100	ESP to each boiler	Particulate Matter SO <sub>2</sub> NO <sub>x</sub>	50 mg/NM <sup>3</sup> 100 ppm 50 Ppm

- 4.2.2 The process emission through various stack/vent of reactors, process vessels shall be conform to the following standards.

Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control system	Parameter	Permissible Limit
1	Rotary kiln	23	Ventury scrubber	Particulate Matter SO <sub>2</sub> NO <sub>x</sub>	150 mg/NM <sup>3</sup> 40 mg/NM <sup>3</sup> 25 mg/NM <sup>3</sup>
2	Co <sub>2</sub> Scrubber	60	Brine Scrubber		
3	Air Vent Scrubber	34	Brine Scrubber		
4	Kiln 1 & 2	45	Vent shall be closed During operation.		
5	Kiln 3 & 4	45	Vent shall be closed During operation.		
6	Kiln- 5	57	Vent shall be closed During operation.		
7	Kiln- 6	57	Vent shall be closed During operation.		
8	Kiln 7 & 8	63	Vent shall be closed During operation.		
9	Slaker No-5	20	Water vapour free from any pollutants		
10	Slaker No-6	20	Water vapour free from any pollutants		
11	Slaker No-7	20	Water vapour free from any pollutants		

- 4.2.3 The concentration of the following parameters in the ambient air within the premises of the industry shall not exceed the limits specified hereunder.

PARAMETER	PERMISSIBLE ANNUAL LIMIT	PERMISSIBLE AVERAGE LIMIT 24 HRS.
Particulate matter-10(PM10)	60 Microgram /NM <sup>3</sup>	100 Microgram /NM <sup>3</sup>
Particulate matter-2.5(PM2.5)	40 Microgram /NM <sup>3</sup>	60 Microgram /NM <sup>3</sup>
Oxides of Sulphur	50 Microgram /NM <sup>3</sup>	80 Microgram /NM <sup>3</sup>
Oxides of Nitrogen	40 Microgram /NM <sup>3</sup>	80 Microgram /NM <sup>3</sup>

- 4.3. The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

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- 4.4. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 4.5. Old CPP Boilers (Five Boilers) along with four Turbines are used as stand by in emergency case only.
5. Authorization for the Management & Handling of Hazardous Wastes Form-2 (See rule 3 (c) & 5 (f)) Form for grant of authorization for occupier or operator handling hazardous waste.

- 5.1. M/s SAURASHTRA CHEMICALS DIVISION OF NIRMA LIMITED is hereby granted to operate facility for following hazardous wastes on the premises situated at BILRLASAGAR, VILL: CHHAYA, PORBANDAR-360576, TA: & DIST: PORBANDAR.

No.	Waste	Quantity	Schedule / I	Facility
1.	Used Oil	2 KL/Year	5.1	Collection, Storage, Transportation and Disposal by reused as lubricants in the plant machineries OR sale to registered recyclers.
2	Discarded Containers	350 Nos/Year	3.1	Collection, Storage, Transportation and Disposal by selling to registered recyclers unit only.

- 5.2. The authorization shall be in force up to 08/09/2019.
- 5.3. The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.
- 5.4. TERMS AND CONDITIONS OF AUTHORISATION:
- a) The applicant shall comply with the provisions of the Environment (Protection) Act - 1986 and the rules made there under.
- b) The authorization shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.
- c) The persons authorized shall not rent, lend, sell, and transfer of otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.
- d) Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorisation order by the persons authorized shall constitute a breach of this authorization.
- e) It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- f) An application for the renewal of an authorization shall be made as laid down in rule 5 (6) (i).
- g) Industry shall submit annual report within 15 days and subsequently by 30<sup>th</sup> June of every year.

## 6. GENERAL CONDITIONS:-

- 6.1. Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.
- 6.2. The waste generator shall be totally responsible for (I.E. Collection, storage, transportation and ultimate disposal) of the wastes generated.
- 6.3. Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form - 4 by 30<sup>th</sup> June of every year.
- 6.4. In case of any accident, details of the same shall be submitted in Form - 5 to Gujarat Pollution Control Board.
- 6.5. As per "Public liability Insurance Act - 91" company shall get Insurance policy, if applicable.
- 6.6. Empty drums and containers of toxic and hazards material shall be treated as per guideline published for "management & handling of discarded containers". Records of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.
- 6.7. In no case any kind of hazardous waste shall be imported without prior approval of appropriate authority.
- 6.8. In case of transport of hazardous waste to a facility for (I.E. Treatment, Storage and disposal) existing in a state other than the state where hazardous waste are generated, the occupier shall obtain "No Objection certificate" from the state pollution Control Board, the Committee of the concerned state or Union territory Administration where the facility exists.

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- 6.9 Unit shall take all concrete measures to show tangible results in waste generation reduction, avoidance, reuse and recycle. Action taken in this regards shall be submitted within three months and also along with Form - 4.
- 6.10 Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Hon Supreme Court's order in W.P. No 657 of 1995 dated 14th October 2003.
- 6.12 Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including wastewater and air emissions and solid hazardous waste generated within the factory premises.

For and on behalf of  
Gujarat Pollution Control Board

(M.M. YABHANI)

Senior Environmental Engineer

NO: GPCB/ CCA/PBR- 21(6)/ ID 19301/ 233321 / 12/12/2014

ISSUED TO:

M/S. SAURASHTRA CHEMICALS DIVISION OF NIRMA LIMITED,  
BILRLASAGAR, VILL: CHHAYA, PORBANDAR- 360576,  
TA: & DIST: PORBANDAR