



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN  
Sector 10-A, Gandhinagar 382010  
Phone : (079) 23226295  
Fax : (079) 23232156  
website : www.gpcb.gov.in

"Consent to Establish"  
CTE NO: 63789

NO: GPCB/CCA-JMN-1071/GPCB-ID-43851/ 221836

DATE 12/8/2014

TO,  
RSPL LIMITED (43851),  
PLOT NO: 237/P3, 242/P1, 243, 245, 247/P1, 251/P3, 256 etc,  
NEAR NH-8E, KURANGA,  
TAL:- DWARKA,  
DIST: DEVBHUMI DWARKA.

SUB: Consent to Establish under Section 25 of Water Act 1974 and Section 21 of Air Act 1981  
REF: Your application No. 79064, dated 26/03/2014

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants **Consent to Establish** for setting up of industrial plant/activities at **PLOT NO: 237/P3, 242/P1, 243, 245, 247/P1, 251/P3, 256 etc, NEAR NH-8E, KURANGA, TAL:- DWARKA, DIST: DEVBHUMI DWARKA.** for the manufacturing of the following items.

Sr. No.	Product	Capacity
1	Soda Ash (Light Soda Ash)	46500.00 MT/M
2.	Soda Ash (Dense Soda Ash)	23870.00 MT/M
3.	Steam (3. Nos. CFBC Boilers)	450.0 TPH
4.	Power	50.000 MW
5.	Power generation by Emergency DG sets	6.00 MW

**THIS CONSENT TO ESTABLISH (NOC) IS SUBJECT TO THE FOLLOWING CONDITIONS .**

1 The Validity period of the order will be Five YEARS i.e. 29/07/2019.  
CTE NO: 63789

**1. SPECIFIC CONDITIONS:-**

- (A) The industry shall obtain Environment Clearance from the competent Authority and shall not start any activity without obtaining Environment Clearance.  
(B) Industry shall have to obtain necessary permissions from the Marine National Park / Wild life Board if necessary.

**2. CONDITIONS UNDER THE WATER ACT:**

- 2.1 The quantity of the industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 599100 KLPD.  
2.2 The quantity of the domestic waste water (sewage) shall not exceed 80.00 KLPD.

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ISO - 9001 - 2008 & ISO - 14001 - 2004 Certified Organisation

### 2.3. TRADE EFFLUENT:

2.3.1 The industrial effluent shall conform to the following standards.

PRAMETERS	GPCB NORMS
pH	6.5 to 9.0
Temperature	Not exceed 5 <sup>0</sup> above the ambient temperature of the receivinbg body.
Colour(pt.co.scale) in units	100 units
Suspended Solids	1000 mg/l*
Oil and Grease	5 mg/l
Ammonical Nitrogen	50 mg/l
Bio Assay Test	90% survival of the fish after 96 hours in 100% effluent.**

\*The diffuser system shall be located in conformity with the Coastal Regulation Zone Notification, 2011 at minimum depth of 5 meters below low tide level and with exit velocity for effluent more than 3 meter/sec.

\*\* The Bio assay test shall conduct as per IS6582-1971.

- All efforts shall be made to remove color and unpleasant Odour as far as possible.

2.3.2 The treated effluent conforming to the above environmental standards shall be discharged into Arabian Sea as per the NIO recommended point.

2.3.3 Domestic effluent shall be treated through STP Separately to conform following standards and shall dispose on land for plantation/ green belt development.

BOD(5 days at 20 <sup>0</sup> C )	Less than 20 mg/l
Suspended Solids	Less than 30 mg/l
Residual Chlorine	Minimum 0.5 ppm

### 3. CONDITIONS UNDER THE AIR ACT:

3.1 The following shall be used as fuel.

Sr.No.	Fuel	Quantity
1	Coal/ Coke (Process)	5220 MT/Month
2	Coal/ Lignite (CPP)	54000 to 81000 MT/Month
3	H.S.D.	7.5 KL/DAY

3.2. The flue gas emission through stack shall conform to the following standards:

Stack No.	Stack attached to	Stack height in Meter	APC Measure	Parameter	Permissible Limit
1.	Boiler- 3 Nos common stack	122	ESP (with each Boiler)	Particulate matter SO <sub>2</sub> NO <sub>x</sub>	150 mg/NM <sup>3</sup> 100 ppm 50 ppm
2.	D. G. Sets (3 Nos)	30 each	--	Particulate matter SO <sub>2</sub> NO <sub>x</sub>	150 mg/NM <sup>3</sup> 100 ppm 50 ppm

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- 3.3 Process emission from the manufacturing process as well as any other ancillary process shall conform the following standards.

Stack No.	Stack attached to	Stack height in Meter	APC Measure	Parameter	Permissible Limit
1.	Ammonia recovery System	42	Water scrubbers	NH3	175 mg/NM <sup>3</sup>
2.	Filtration / Calcinations	37	Water scrubbers	NH3	175 mg/NM <sup>3</sup>
3.	Kilns (5 Nos)	68 each	Scrubber (with each Kiln)	Particulate matter	150 mg/NM <sup>3</sup> 100 ppm 50 ppm
4.	Lime grinding System	65	Bag Filter	Particulate matter	150 mg/NM <sup>3</sup>
5.	Densification	43	Scrubber	Particulate matter	150 mg/NM <sup>3</sup>

- 3.4. Ambient air quality within the premises of the industry shall conform to the following standards: -

PARAMETERS	PERMISSIBLE LIMIT	
	Annual	24 Hrs Average
Particulate Matter-10 (PM <sub>10</sub> )	60 Microgram/M <sup>3</sup>	100 Microgram/M <sup>3</sup>
Particulate Matter- 2.5 (PM <sub>2.5</sub> )	40 Microgram/M <sup>3</sup>	60 Microgram/M <sup>3</sup>
SO <sub>2</sub>	50 Microgram/M <sup>3</sup>	80 Microgram/M <sup>3</sup>
NO <sub>x</sub>	40 Microgram/M <sup>3</sup>	80 Microgram/M <sup>3</sup>

- 3.5. All measures for the control of environmental pollution shall be provided before commencing production.

#### 4. CONDITIONS UNDER HAZARDOUS WASTE:

- 4.1. Applicant shall have to comply with provisions of Hazardous Waste (Management & Handling) Rule-1989 as amended from time to time.
- 4.2. The applicant shall obtain membership if required of common TSDF site for disposal of Haz. Waste as categorized in Hazardous Waste (Management & Handling) Rule-1989 as amended from time to time.
- 4.3. The applicant shall obtain membership of common Haz. Waste incinerator for disposal of incinerable waste.

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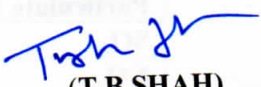
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4.4. The applicant shall provide temporary storage facilities for each type of Haz.Waste as per Hazardous Waste (Management, Handling and Transboundary Movement) Rule-2008 as amended from time to time

5. **GENERAL CONDITION :**

- 5.1. Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 5.2. The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
- 5.3. In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor should immediately be intimated to the Board.
- 5.4. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986.
- 5.5. The applicant also comply with the General conditions as per Annexure - I attached herewith (No.1 to 38) (Whichever applicable).
- 5.6. The concentration of Noise in ambient air within the premises of industrial unit shall not exceed Following levels:  
Between 6 A.M. and 10 P.M.: 75 dB(A)  
Between 10 P.M. and 6 A.M. : 70 dB(A)
- 5.7. Applicant is required to comply with manufacturing, Storage and Import of Hazardous Chemicals Rules- 1989 framed under the Environment (Protection) Act-1986.
- 5.8. If it is established by any competent authority that the damage is caused due to their industrial activities to any person or his property .in that case they are obliged to pay the Compensation as determined by the competent authority.
- 5.9. The applicant shall have to provide the Display Board as per the Supreme Court Order.

For and on Behalf of  
**GUJARAT POLLUTION CONTROL BOARD**

  
(T.B.SHAH)  
**ENVIRONMENTAL ENGINEER**

F. No. J-11011/247/2012- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

Paryavaran Bhawan  
CGO Complex, Lodhi Road  
New Delhi – 110 003

E-mail : [aditya.narayan@nic.in](mailto:aditya.narayan@nic.in)  
Telefax : 011: 2436 0549  
Dated 1<sup>st</sup> February, 2013

To,

Shri V.N. Desai (President)  
M/s RSPL Limited.  
C/2, 3<sup>rd</sup> Floor, Safal Profitaire, Corporate Road,  
Nr. Prahladnagar Ahmedabad Garden, Prahladnagar,  
Satellite, Ahmendabad-0380015

E-mail: [projectamd@rspl.net.in](mailto:projectamd@rspl.net.in) ; [vn.desai@rspl.net.in](mailto:vn.desai@rspl.net.in) ; Fax No. : 079-29701606

**Subject: Greenfield Soda Ash Plant (1500 TPD) alongwith Captive Power Plant (50 MW) at Village Kuranga, Taluka Dwraka, District Jamnagar, Gujarat by M/s RSPL Ltd - regarding TORs**

**Ref. : Your letter no. RSPL/CCG/VKG/ENV-002/078/2012-13 dated 20<sup>th</sup> June, 2012.**

Sir,

Kindly refer to your letter no. RSPL/CCG/VKG/ENV-002/078/2012-13 dated 20<sup>th</sup> June, 2012 alongwith project documents including Form-I, Pre-feasibility Report and draft 'Terms of Reference' as per the EIA Notification, 2006. It is noted that proposal is for setting up of Greenfield Soda Ash Plant (1500 TPD) alongwith Captive Power Plant (50 MW) at Village Kuranga, Taluka Dwraka, District Jamnagar, Gujarat by M/s RSPL Ltd. Following will be installed:-

S.N.	Plant	Capacity	
1	Soda Ash plant	Light soda Ash	1500 TPD
		Dense soda ash	770 TPD
2	CPP	50 MW	50 MW
3	DG Set		6MW

2.0 Draft Terms of Reference (TOR) have been discussed and finalized during the 3<sup>rd</sup> Reconstituted Expert Appraisal Committee (Industry) held during 3<sup>rd</sup> – 5<sup>th</sup> December, 2012 for preparation of EIA/EMP report. Following are the 'TORs':

1. Executive summary of the project
2. Justification of the project.
3. Promoters and their back ground.
4. Regulatory framework
5. Project location and plant layout.
6. Infrastructure facilities including power sources.
7. Total cost of the project alongwith total capital cost and recurring cost/annum for environmental pollution control measures.

8. Project site location alongwith site map of 10 km area and site details providing various industries, surface water bodies, forests etc.
9. Present land use based on satellite imagery for the study area of 10 km radius.
10. Location of National Park/Wild life sanctuary/Reserve Forest within 10 km radius of the project.
11. Recommendation alongwith map authenticated by Chief Wildlife Warden indicating Gaga Wildlife Sanctuary. A copy of application submitted to National Wildlife Board for wildlife clearance.
12. Forest Clearance in case the forest land is involved.
13. CRZ clearance, if applicable.
14. Details of the total land and break-up of the land use for green belt and other uses.
15. Rehabilitation & Resettlement (R & R) should be as per policy of the State Govt. and a detailed action plan should be included.
16. List of products alongwith the production capacities and list of solvents and its recovery plan.
17. Detailed list of raw material required and source, mode of storage and transportation.
18. Manufacturing process details of all the plants including power plant, chemical reactions and mass balance.
19. Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall is necessary.
20. One season site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall and AAQ data (except monsoon) for PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> including HC and VOCs should be collected. The monitoring stations should take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests/wild life sanctuary. Data for water and noise monitoring should also be included.
21. Air pollution control measures proposed for the effective control of gaseous emissions within permissible limits.
22. Design details of ETP, incinerator, if any, alongwith control of Dioxin & Furan, boiler, scrubbers/bag filters etc.
23. Details of water and air pollution and its mitigation plan
24. Action plan to control ambient air quality as per NAAQES Standards notified by the Ministry on 16<sup>th</sup> September, 2009.
25. An action plan to control and monitor secondary fugitive emissions from all the sources.
26. Determination of atmospheric inversion level at the project site and assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. Air quality modelling for proposed plant.
27. Permission from the State Government for drawl of 6,00,000 m<sup>3</sup>/daysea water from the competent authority. Water balance chart including quantity of effluent generated recycled and reused and discharged. Action plan for Zero discharge of effluent as proposed should be included.
28. Marine EIA and EMP for sea water intake and effluent disposal.
29. Ground water monitoring minimum at 6 locations should be carried out. Geological features and Geo-hydrological status of the study area and ecological status (Terrestrial and Aquatic).
30. The details of solid and hazardous wastes generation, storage, utilization and disposal particularly related to the hazardous waste calorific value of hazardous waste and detailed characteristic of the hazardous waste. Action plan for the disposal of fly ash generated from boiler should be included.
31. Precautions to be taken during storage and transportation of hazardous chemicals should be clearly mentioned and incorporated.
32. Details of captive land fill alongwith design details as per CPCB guidelines, if any.

33. Authorization/Membership for the disposal of liquid effluent in CETP and solid/hazardous waste in TSDF.
34. Risk Assessment; Maximum Credible Accident ( MCA) Analysis; Risk Mitigation Measures and Disaster Management Plan.
35. An action plan to develop green belt in 33 % area
36. Action plan for rainwater harvesting measures at plant site should be included to harvest rainwater from the roof tops and storm water drains to recharge the ground water.
37. Details of occupational health programme.
  - i) To which chemicals, workers are exposed directly or indirectly.
  - ii) Whether these chemicals are within Thresh Limit Values (TLV)/ Permissible Exposure Levels as per ACGIH recommendation.
  - iii) What measures company have taken to keep these chemicals within PEL/TLV.
  - iv) How the workers are evaluated concerning their exposure to chemicals during pre-placement and periodical medical monitoring.
  - v) What are onsite and offsite emergency plan during chemical disaster.
  - vi) Liver function tests (LFT) during pre-placement and periodical examination.
  - vii) Details of occupational health surveillance programme.
38. Socio-economic development activities should be in place.
39. Note on compliance to the recommendations mentioned in the CREP guidelines.
40. Detailed Environment management Plan (EMP) with specific reference to details of air pollution control system, water & wastewater management, monitoring frequency, responsibility and time bound implementation plan for mitigation measure should be provided.
41. EMP should include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
42. Total capital cost and recurring cost/annum for environmental pollution control measures.
- 43. Corporate Environmental Responsibility**
44. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
45. (b) Does the Environmental Policy prescribe for standard operating process/procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA report.
46. 44 What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
47. Does the company have a system of reporting of non compliance / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
48. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof.
49. Public hearing issues raised and commitments made by the project proponent on the same should be included separately in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.
50. A tabular chart with index for point wise compliance of above TORs.

The following general points should be noted:

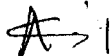
- i. All documents should be properly indexed, page numbered.
- ii. Period/date of data collection should be clearly indicated.
- iii. Authenticated English translation of all material provided in Regional languages.

- iv. The letter/application for EC should quote the MOEF file No. and also attach a copy of the letter.
- v. The copy of the letter received from the Ministry should be also attached as an annexure to the final EIA-EMP Report.
- vi. The final EIA-EMP report submitted to the Ministry must incorporate the issues in this letter and that raised in Public Hearing/consultation alongwith duly filled in Industry Sector questionnaire. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report where the above issues and the issues raised in the Public hearing have been incorporated.
- vii. Certificate of Accreditation issued by the QCI to the environmental consultant shall be included.


3.0 These 'TORs' should be considered for the preparation of EIA / EMP report for setting up of greenfield Soda Ash Plant (1500 TPD) alongwith Captive Power Plant (50 MW) at Village Kuranga, Taluka Dwraka, District Jamnagar, Gujarat in addition to all the relevant information as per the 'General Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. The EIA/EMP as per TORs should be submitted to the **Chairman, Gujarat Pollution Control Board, (GPCB)** for public consultation. The **GPCB** shall conduct the public hearing/public consultation as per the provisions of EIA notification, 2006.

4.0 You are requested to kindly submit the final EIA/EMP prepared as per TORs and incorporating all the issues raised during Public Hearing / Public Consultation to the Ministry for considering the proposal for environmental clearance *within 2 years as per the MoEF O.M. No. J-11013/41/2006-IA.II (I) dated 22<sup>nd</sup> March, 2010.*

5.0 The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India / National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc.

  
(A.N. Singh)  
Dy. Director

**Copy to :** The Chairman, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector – 10, A, Gandhi Nagar - 382 010, Gujarat (E-mail: [chairman@gpcb.gov.in](mailto:chairman@gpcb.gov.in) ; Fax No.: 079-23232156)

  
(A.N. Singh)  
Dy. Director