



File No: J-11011/247/2012-IA-II(I)

Government of India

Ministry of Environment, Forest and Climate Change

IA Division



Date 22/08/2025



To,

Harish Mangaram Ramchandani
M/s RSPL Limited
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Subject: Proposed Project of RSPL Chemical Complex for production of Dense Soda Ash (1500 TPD), Refined Bicarbonate (400 TPD), Captive Cogeneration Power (50 MW to 67 MW) AND CFBC Boilers (450 TPH to 600 TPH) at Existing Soda Ash Manufacturing Plant Facilities of M/s RSPL Limited, Village: Kuranga, Taluka: Dwarka, District: Devbhumi Dwarka, Gujarat- Grant of prior Environmental Clearance (EC) and CRZ Clearance to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/GJ/IND3/531880/2025 dated 17/04/2025 for grant of prior Environmental Clearance (EC) and CRZ clearance to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

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| (i) EC Identification No. | EC25A1701GJ5763527N |
| (ii) File No. | J-11011/247/2012-IA-II(I) |
| (iii) Clearance Type | Fresh EC |
| (iv) Category | A |
| (v) Project/Activity Included Schedule No. | 4(e) Soda ash Industry, 1(d) Thermal Power Plants |
| (vi) Sector | Industrial Projects - 3 |
| (vii) Name of Project | EC and CRZ Clearance of Proposed Project of RSPL Chemical Complex for Production of Dense Soda Ash (1500 TPD), Refined Bi-Carbonate (400 TPD), Captive Cogeneration Power Plant (50 MW to 67 MW) and CFBC Boilers (450 TPH to 600 TPH) at existing Soda Ash Plant manufacturing facilities of RSPL Limited, Village: Kuranga, |

(viii) Name of Company/Organization	Taluka: Dwarka, District: Devbhumi Dwarka, Gujarat
(ix) Location of Project (District, State)	M/s RSPL Limited
(x) Issuing Authority	DEVBHUMI DWARKA, GUJARAT
(xi) Applicability of General Conditions as per EIA Notification, 2006	MoEF&CC
	No

3. The Ministry of Environment Forest and Climate change has examined the proposal seeking Environmental Clearance and CRZ Clearance for "*Proposed Project of RSPL Chemical Complex for production of Dense Soda Ash (1500 TPD), Refined Bicarbonate (400 TPD), Captive Cogeneration Power (50 MW to 67 MW) AND CFBC Boilers (450 TPH to 600 TPH) at Existing Soda Ash Manufacturing Plant Facilities at Village: Kuranga, Taluka: Dwarka, District: Devbhumi Dwarka, Gujarat by M/s RSPL Limited*".

4. The project is covered under the Category A of item 4 (e) Soda Ash Industry and 1 (d), Thermal Power Plants (Captive Thermal Power Plant) of the Schedule of Environment Impact Assessment (EIA) Notification, 2006 (amended from time to time) and the proposal is appraised at the Central Level by the Expert Appraisal Committee (EAC).

5. Ministry vide letter no. J-11011/247/2012-IA II (I) dated 12th November, 2015 has issued EC to M/s RSPL Ltd. for the existing project of Soda Ash Plant (1500 TPD) along with Captive Power Plant (50 MW) at Village: Kuranga, Taluka: Dwarka, District: Jamnagar, Gujarat.

6. ToR has been issued by Ministry vide File No. J-11011/247/2012-IA-II (I) and TOR Identification No.TO23A1701GJ5337297E dated 11/05/2023. The project proposal was considered by the Expert Appraisal Committee (Industry-3) in its 99th meeting held on 30.04.2025 wherein the Project Proponent and the accredited Consultant namely M/s. Kadam Environmental Consultants (NABET Accreditation Number: NABET/EIA/2326/RA 0303 valid till 19-03-2026) made a detailed presentation on the salient features of the project and informed that:

7. Existing land area is 5400663 m^2 , and no additional land will be used for proposed expansion.

Involvement of forest land: Not applicable as the proposed project will be set-up within existing plant premises which does not include forest land. However, Intake and outfall pipeline corridor is passing through forest area for which Forest Diversion of 0.94 ha. had already been obtained vide letter no. FCA-1015/10-23/15/SF-16-F dated 22.03.2016. The existing infrastructure is sufficient for enhancement of sea water intake drawl and disposal of treated effluent.

8. The details of products and capacity as under:

S.N.	Product Details (complete name)	CAS NO.	Existing Quantity	Proposed Quantity	Total Quantity	Uses
1	Light Soda Ash	497-19-8	1500 TPD	0	1500 TPD	As a raw material for manufacturing glass, soaps and detergents
2	Dense Soda Ash	497-19-8	770 TPD*	1500 TPD	1500 TPD	Glass industry
3	Refined Bi-Carbonate	144-55-8	0	400 TPD	400 TPD	Food industry
4	Coal / Lignite based	-	50 MW	17 MW	67 MW	To meet power

	Captive Cogeneration power plant					requirement of proposed project
5	Steam	-	3 nos. x150 TPH Boilers	1 no. x 150 TPH CFBC Boilers	4 nos. x 150 TPH CFBC Boilers	To meet power requirement of proposed project
6	Emergency D.G.Set	-	6 MVA	0	6 MVA	To meet power requirement in case of power failure
7	Seawater Intake	-	6,00,000 KLD	6,00,000 KLD	12,00,000 KLD	For cooling and RO/DM Plant for Desalination purpose
8	Treated Effluent Disposal in Sea	-	6,00,000 KLD	6,00,000 KLD	12,00,000 KLD	--

9. PP submitted the copy of Certified compliance report issued by RO, MoEF&CC vide letter dated 27th November 2024. It is reported that 45 points are complied; 4 are agreed to comply by the Project proponent and 1 condition is noted by the unit.

10. Details of existing EC, CTO, CTE

Sr. No.	Environment related Clearance /Permit Type	Granted by	Document No. & Date
1	Consolidated Environmental Clearance (EC) & Coastal Regulatory Zone (CRZ) Clearance	Ministry of Environment, Forests & Climate Change (MoEF&CC), Govt. of India	J-11011/247/2012-IA-II (I) dated 12/11/2015
2	Consent to Establish (CTE)	Gujarat Pollution Control Board	CTE Order No. 63789 dated 12.08.2014
3	Forest Approval	Forest and Environment Department, Govt. of Gujarat	Stage-1: No.6-GJB039/2015-BHO/1105 dated 31.08.2015 Stage-2: No.6-GJB039/2015-BHO/1394 dated 30.12.2015 Forest Approval from Forest & Envt. Dept., Govt. of Gujarat, Ref. No. FCA-1015/10-23/15/SF-16-F dated 22.03.2016
4	Consolidated Consent & Authorization (CC&A) and its amendment	Gujarat Pollution Control Board	Consent Order No. AWH-137417 date of Issue: 01.10.2024

11. Details of nearby CRZ:

CRZ – The intake and outfall pipelines fall under CRZ IA, CRZ IB, CRZ III and CRZ IV-A as per CRZ Notification 2011.

Sr. No.	Activity	CRZ category	Clause permitting activity (CRZ notification 2011)	Pipeline length in (m)
1	Intake Pipeline	CRZ IA, CRZ IB, CRZ III, CRZ IVA	3 (i) (a), 4 (ii) (d), 8 I (i) b	1042.15

2	Outfall Pipeline	CRZ IA, CRZ IB, CRZ III, CRZ IVA	3 (i) (a), 4 (ii) (d), 8 I (i) b	1737.9
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12. Details of NBWL Clearance/Permission (if applicable): Not Applicable

PP informed that Gaga Wildlife Sanctuary (WLS) consists of 2 parts; one part is located at a distance of ~ 6.98 km North (N) and the other is at a distance of ~ 12.74 km North Northwest (NNW) from the site from the closest site boundary. MoEF&CC has notified Eco-Sensitive Zone (ESZ) of 1 km for this Wildlife Sanctuary vide Gazette Notification dated 07.06.2017. The ESZ is lying at a distance of ~6.10 km North Northwest (NNW) from the closest site boundary. Therefore, the proposed project does not attract NBWL Clearance.

13. It is reported that there is **no** National Parks, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridor etc. within 10 km distance from the project site.

However, there is Gaga Wildlife Sanctuary (WLS) consists of 2 parts; one part is located at a distance of ~ 6.98 km North (N) and the other is at a distance of ~ 12.74 km North Northwest (NNW) from the closest site plant boundary. MoEF&CC has notified Eco-Sensitive Zone (ESZ) of 1 km for this Wildlife Sanctuary vide Gazette Notification dated 07.06.2017. Distance of Eco-Sensitive Zone (ESZ) of this Wildlife Sanctuary w.r.t plant's closest boundary is approx. 6.10 km.

Arabian Sea is at approx. 1 km in South direction, Gojiness Creek is at approx. 2.5 km in SE direction, Kalipat River is at a distance of 2.5 km in SE direction whereas Khari River is at a distance of approx. 6 km in N direction. The Kuranga Lake is at a distance of approx. 4.5 km in NW direction.

07 number of species which are Indian Peafowl, Eurasian Spoonbill, Houbara Bustard, Indian Wolf, Olive Ridley Sea Turtles, Green Sea Turtles, Flap shell Turtle are the Schedule-I species and status of approval of the conservation plan for the Schedule-I species is approved. Conservation Plan is submitted to the Chief Wildlife Warden, Gandhinagar with an allocated budget of Rs. 30,00,000 (Thirty lakh) and a vehicle will be provided for field work Approval from Chief Wildlife Warden obtained vide Letter No. WLP/32/C/T-1&2 461-463/ 2024-25 dated 06-01-2024.

Forest: Forest near Bhogat Village at 4.43 km in SE direction, Kuranga forest which is adjacent to site in Southern direction, forest near Kuranga village at approx. 1.59 km in NNW direction, forest near Gojiness village which is adjacent to site in Southern direction.

14. Ambient air quality monitoring was carried out at 10 locations during February 2022 to May 2022 and the baseline data indicates the ranges of concentrations as: PM10 (58 – 82 g/m³), PM2.5 (21 – 33 g/m³), SO₂ (6.9 – 8.8 g/m³) and NO_x (13.8 – 17.8 g/m³), CO (0.49 – 0.90 mg/ m³), HC (920 – 1051 g/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 58 -82 g/m³, 7.0 to 9.4g/m³ and 13.9 to 18.3 g/m³ with respect to PM₁₀, SO₂ and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS). Further, PP has revised AAQ modeling after adopting appropriate air pollution control measures. Incremental GLC after Installation of Air pollution control Devices (g/m³) is tabulated below:

Maximum Concentration of Baseline (g/m ³)		Before Installation of Air pollution control Devices (g/m ³)	After Installation of Air pollution control Devices (g/m ³)	Total Predicted Incremental GLC After Installation of Air pollution control Devices (g/m ³)
PM10	83	13.33	3.10	86.1
SO ₂	8.9	9.24	2.88	11.78
NO _x	16.5	6.69	2.09	18.59
NH ₃	<10	8.48	2.89	-
Hg*	1047	0.0015	0.0002	1047
HC	0.95	2.49	0.52	1.47
CO	<0.03	12.71	2.68	-

15. Total existing water requirement is 6,00,000 m³/day and after expansion the total water requirement will be 12,00,000 m³/day, which will be met from Arabian Sea. The recommendation for extraction of sea water is obtained from GCZMA vide their Letter No. env/10/2024/16/T dated 11.04.2025.

16. Total Effluent of 12,00,000 m³/day will be discharged in Arabia Sea treated at a designated point as per recommendation of CSIR-NIO after treatment and dilution.

17. Power requirement after expansion will be 67 MW including existing 50 MW and will be met from Coal/lignite CFBC boiler based Captive Cogeneration Power Plant (CPP). 3 nos. x 150 TPH and 16.5 MW power has been already established for existing Soda Ash plant facilities and one additional boiler of 150 TPH capacity and MW back pressure steam turbine in the proposed project will be established, making power availability of 67 MW. Additionally, D.G. set – 2 nos. (1010 KVA and 2000 KVA) are also installed at the site which are used during power failures only. Arrangements have also been made for sourcing power through 6 MVA grid sub-station of PGVCL.

18. Existing unit has 3 x 150 TPH Coal/Lignite fired boiler. Additionally, 1x 150 TPH Coal / Lignite fired boiler will be installed. Electrostatic Precipitator (ESP) with an existing common stack of height of 122 meter is / will be installed for controlling the particulate emissions within the statutory limit of 30 mg/Nm³ for the proposed boilers.

19. Details of fuel: Existing and Proposed

Sr. No.	Fuel	Consumption (MT/Day)			Total
		Existing	Proposed		
1.	Coal	1800	620	2420	
2.	Lignite	2700	920	3620	
3.	Light Diesel Oil (LDO) used for Boiler start up	15 KLD	15 KLD	30 KLD	

20. Details of Process emissions generation and its management:

Details of Flue stack Emission Sources (Existing & Proposed)

Stack No.	Stack Attached to	Capacity	Stack Ht., m	Stack Dia. (Top), m	Fuel Used	APCM Attached	Expected Pollutants
A. Existing Flue Gas stacks							
1.	Captive Cogeneration power plant CFBC Boilers (3 nos.) - Common stack	50 MW	122	5.5	Coal	ESP each	PM, SO ₂ , NO _x
2.	D.G. set No. 1 (1010 KVA)	1010 KVA	30	0.4	Diesel	Adequate stack height	PM, SO ₂ , NO _x
3.	D.G. set No. 2 (2000 KVA)	2000 KVA	30	0.4	Diesel	Adequate stack height	PM, SO ₂ , NO _x
B. Proposed Flue Gas stacks							
1.	Captive Cogeneration power plant CFBC Boiler (1 no.) - connected to existing common stack	17 MW	122	5.5	Coal	ESP	PM, SO ₂ , NO _x and Hg

Details of Process Vent Sources (Existing & Proposed):

Stack No.	Stack Attached to	Stack Ht., m	Stack Dia. (Top), m	APCM Attached	Expected Pollutants
A. Existing Process vents, stacks					
1.	Lime Kiln No. 1	68	1	Seawater Scrubbers and ESPs in series	PM, SO ₂ & NO _x
2.	Lime Kiln No. 2	68	1	Seawater Scrubbers and ESPs in series	PM, SO ₂ & NO _x
3.	Lime Kiln No. 3	68	1	Seawater Scrubbers and ESPs in series	PM, SO ₂ & NO _x
4.	Lime Kiln No. 4	68	1	Seawater Scrubbers and ESPs in series	PM, SO ₂ & NO _x
5.	Lime Kiln No. 5	68	1	Seawater Scrubbers and ESPs in series	PM, SO ₂ & NO _x
6.	Ammonia Recovery System No. 1	42	0.7	Brine Scrubber	NH ₃
7.	Ammonia Recovery System No. 2	42	0.7	Brine Scrubber	NH ₃
8.	Lime Grinding System No. 1	65	0.6	Bag filter	PM
9.	Lime Grinding System No. 2	65	0.6	Bag filter	PM
10.	Lime Grinding System No. 3	65	0.6	Bag filter	PM
11.	Filtration / calcinations No. 1	37	0.5	Brine scrubber	NH ₃
12.	Filtration / calcinations No. 2	37	0.5	Brine scrubber	NH ₃
13.	Filtration / calcinations No. 3	37	0.5	Brine scrubber	NH ₃
14.	Filtration / calcinations No. 4	37	0.5	Brine scrubber	NH ₃
B. Proposed Process vents / stacks					
1.	Lime Kiln No. 6	68	1	Seawater Scrubbers and ESPs in series	PM, SO ₂ & NO _x
2.	Lime Kiln No. 7	68	1	Seawater Scrubbers and ESPs in series	PM, SO ₂ & NO _x
3.	Lime Kiln No. 8	68	1	Seawater Scrubbers and ESPs in series	PM, SO ₂ & NO _x
4.	Lime Kiln No. 9	68	1	Seawater Scrubbers and ESPs in series	PM, SO ₂ & NO _x
5.	Lime Kiln No. 10	68	1	Seawater Scrubbers and ESPs in series	PM, SO ₂ & NO _x
6.	Ammonia Recovery System No. 3	42	0.7	Brine Scrubber	NH ₃
7.	Ammonia Recovery System No. 4	42	0.7	Brine Scrubber	NH ₃
8.	Lime Grinding System No. 4	65	0.6	Bag filter	PM
9.	Lime Grinding System No. 5	65	0.6	Bag filter	PM
10.	Filtration / calcinations No. 5	37	0.5	Brine scrubber	NH ₃
11.	Filtration / calcinations No. 6	37	0.5	Brine scrubber	NH ₃
12.	Filtration / calcinations No. 7	37	0.5	Brine scrubber	NH ₃
13.	Densification No. 1	43	1.4	Water Scrubber	PM
14.	Densification No. 2	43	1.4	Water Scrubber	PM
15.	RBC plant Stack No. 1	35	0.5	Gas Liquid Separator	PM, SO ₂ & NO _x
16.	RBC plant Stack No. 2	35	0.5	Gas Liquid Separator	PM, SO ₂ & NO _x

17.	RBC plant Stack No. 3	35	0.5	Gas Liquid Separator	PM, SO ₂ & NO _x
18.	RBC plant Stack No. 4	35	0.5	Gas Liquid Separator	PM, SO ₂ & NO _x
19.	RBC plant Stack No. 5	35	0.5	Gas Liquid Separator	PM, SO ₂ & NO _x
20.	RBC Product Silo	35	0.5	Bag Filter	PM

21. Details of Solid waste/ Hazardous waste generation and its management:

Hazardous Waste Generation and Disposal

S. No.	Type of Waste	Hazardous Waste Category	Quantity per Year			Treatment / Disposal
			Existing	Proposed	Total	
1.	Used Oil / Waste Oil	/5.1	5.5 MT	5.5 MT	11 MT	Collection, Storage, Transportation & disposal by selling to GPCB authorized Re-processors/ recyclers.
2.	Discarded Containers	33.1	0.75 MT	0.75 MT	1.5 MT	Collection, Storage, Transportation & disposal by selling to GPCB authorized recyclers for decontamination.
3.	Spent Resin	35.2	2.7 MT (13.520 MT Once in 5 years)	2.7 MT (13.520 MT Once in 5 years)	5.4 MT (27.04 MT Once in 5 years)	Collection, Storage, Transportation & disposal at CHWIF site.
4.	Bottom sludge from acid storage tank	Class C2	0 MT	1.0 MT	1.0 MT	Will be managed as per the Hazardous Waste Rules, 2016 as amended.

Solid Waste Generation and Disposal

S. No.	Type of Waste	Quantity per Year (MTPA)			Mode of Disposal
		Existing	Proposed	Total	
1.	Settled Sludge from outfall Retention Pond	~70,000	~70,000	1,40,000	It is non-hazardous in nature. After drying, it will be utilized for filling of excavated areas, construction of embankments, internal roads and also for bund preparation in salt works
2.	Fly Ash / Bottom Ash	1,64,250	56,575	2,20,825	The boiler ash of coal as fuel will be used for Cement Manufacturing/ Brick Manufacturing. If from lignite only, it will be used for road construction, pavement & flooring etc.
3	Brine sludge from brine purification unit	10,800	10,800	21,600	After drying, it will be utilized for filling of excavated areas, construction of embankments, internal roads and also for bund preparation in salt works

Other wastes expected to be generated

Sr. No.	Waste Type	Source	Physical State	Quantity (MTPA)	Storage Method	Management Method
1.	Municipal Solid Waste	Canteen, Office blocks	Solid	Existing =154 kg/day Construction phase = 300 kg/day (max.) Operation phase	HDPE Drums	Shall be handled as per the Solid Waste Management Rules, 2016 as amended from time to time.

				after proposed project = 187 kg/day		
2.	Biomedical Wastes	On-site Occupational Health centre	Solid	As & when generated	Storage will be done as per Bio-Medical Waste Management Rules, 2016 as amended from time to time	Shall be handled as per the Bio-Medical Waste Management Rules, 2016 as amended from time to time.
3.	Used Lead Acid Batteries	Company owned vehicles, other devices (such as UPS) being operated within the site	Solid	100% buyback scheme implemented at site. No waste generated due to this	Separate dedicated storage Facility	Shall be handled as per the Batteries (Management & Handling) Rules, 2010 as amended from time to time.
4.	Construction and Demolition (C&D) Wastes	Entire Site	Solid	As & when generated	Common Waste storage areas in the site	Shall be handled as per the Construction and Demolition Waste Management Rules, 2016 as amended from time to time.
5.	Non-Hazardous metallic scrap, wooden & paper scrap	Entire Site	Solid	As & when generated	Scrap storage areas in the site	Sold to scrap dealers duly approved by the company.
6.	Electronic wastes	Entire Site	Solid	As & when generated	Separate dedicated storage Facility	Shall be handled as per the E-waste (Handling) Rules, 2016 as amended from time to time.

22. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 05.10.2023, at 16:00 hrs. Public hearing notice was published on date 04.09.2023 in two nos. of prominent newspapers namely “The Indian Express” and “Sandesh”. Further corrigendum of advertisement was published in English newspaper “The Indian express” & in Gujarati newspaper “Sandesh” dated 22.09.2023. The Public Hearing was attended by more than 500 persons whereas 499 persons signed the register of attendance. 37 no. of persons raised the issues during the public hearing.

Action plan to address the issues raised during the public hearing is as given below:

S. No.	Issue raised	Response/Commitment from Project Proponent	Action plan with time frame and budget
1	Corporate Responsibilities The company is requested to construct and help as much as can. public toilets in the Bhogat village for travelers/visitors. Provide drinking water facility in Kuranga village & Bhatvadiya village. Requested to the company for do more work on the quality education of the children in coordination with the people of the Kuranga village and the leaders. The company is working for primary education but should also work for secondary education. Provide donation to Gaushala located	Company will do such activity under CSR and help as much as can. Company will discuss with representatives of Kuranga and Bhatvadiya villages regarding provision of drinking water facility and include in CSR. Company gives priority to education. The management of company will provide as much assistance as possible for education.	Cost for, Public Toilets: Rs. 56.44 Lakhs Drinking water facilities: Rs. 59.69 Lakhs Toilet blocks in School: Rs. 46.01 Lakh Paver blocks in school, shed for Mid-day meal, Notebooks and trophies are distributed by the company every year and small-scale construction and painting are also done in the schools. Mid-day meal rooms have also been constructed so such works will be completed by the company.

	<p>nearby company and provide doctor with ambulance for cows so it can be treated if any accident happens. Arrange medical facilities for surrounding 14 villages.</p> <p>What works have the company done in natural calamities like corona and cyclone & what help will give during natural calamities.</p> <p>Requested to the company for Rural development of Gojines village.</p> <p>To make road for to reach Kuranga</p> <p>School and facilities for light and water.</p> <p>Request to provide bus facility for school boys stays in Kuranga Village.</p>	<p>be continued continuously. Company is going to works continuously for the cows and company will do the same. Every effort will be made after verifying it.</p> <p>OHC (Occupational Health Centre) is working 24 hours in the company. In which there is always a team of resident doctor and paramedical staff and 2</p> <p>ambulances, if one of them is in service, the other one can be made available in case of requirement in surrounding villages. Company provide free primary treatment in OHCs in surrounding villages.</p> <p>Company has done a lot of work during the time of Corona under the CSR activity. Company has all the facilities like fire tender, OHC and ambulance in case of any emergency.</p> <p>Village development activities will be undertaken e.g. roads, tree plantation, education, health camps etc.</p>	<p>along with Beneficial activities and Ambulance for cows with Veterinary doctor: Rs. 51.77 Lakh</p> <p>Rural development activities Rs. 253.85 Lakh Within 2 to 5 Years</p>
2	<p>Employment</p> <p>Provide more employment & give priority to local people.</p> <p>There is not provided any employment to people of Gojines village. Gojines village is nearest to the company and suffering loss.</p>	<p>Based on the nature of job, skill, qualification, relevant experience & Government of Gujarat recommended norms recruitment / employment will be done & people from every village will be given equal opportunity in employment.</p> <p>Approximately 18 people from Gojines village are working in company which creates income approximately Rs. 22 lacs.</p>	-
3	<p>Coal Storage & Handling</p> <p>Company should maintain distance of 5 meter between coal piles for storage as per pollution control criteria clause '14' and clause 'D' of Coal Handling Guidelines.</p> <p>There should be a retaining wall of 9 meter. But this company has height of wall is not seen more than 9 Meter but provided only 6 feet wall and there is occur lot of coal dusting and surrounding fields are getting damaged due to this.</p>	<p>Coal handling guidelines are being followed with and coal is stored in a covered shed only.</p> <p>Coal is stored inside a coal shed of 420 m² x 120 m and covered with sheeting and side claddings. Water sprinkling system, dry fog system and all necessary equipment are available.</p>	-
4	<p>Management of waste water discharge to sea</p> <p>How does the company dispose the wastewater and whether it will have any effect on the villagers</p>	<p>The wastewater is treated as per the norms of GPCB/CPCB guidelines and after that it is discharged into the sea. Domestic sewage of township or company is properly treated in STP and used for horticulture.</p>	-
5	<p>Management of Hazardous waste</p> <p>What is done with waste chemicals which generated from manufacturing of salt</p>	<p>Company send the generated hazardous waste to GPCB approved recyclers and details are submitted periodically to GPCB.</p>	-

6	Fire safety In case of fire in any surrounding villages, what facilities will be provided for fire tender.	Company has a separate Fire & safety team and the services are also being extended to nearby villages in any eventuality. Company has two fire tenders and company has many a times assisted to nearby villages on phone call for help and rescue by our fire and safety team. Company is also members of Mutual aid Scheme.	-
7	Air emission & Pollution There is no water cooler in the chimney of the boiler, due to which it cannot collect the solid matter and due to which blasting occurs in the air. The air passes over entire belt of Goji village.	The height of the chimney of the boiler is 122 meters, which is built as per the rules of the government. There is no water scrubbing system as we have a once through cooling system. The flue gas from the boiler passes through the ESP and goes into the chimney. The flue gas coming out of the chimney comes out as per the norms of GPCB/CPCB and its data is monitored and connected to server.	-
TOTAL Fund allotment		704.24 Lakh ~ 7.0424 Crore	

23. Wildlife Conservation Plan has been approved vide Letter No. WLP/32/C/T-1&2 461-463/ 2024-25 dated 06-01-2024.

24. Details of Best Technology Adopted:

i. PP informed that RSPL uses the latest technology which is designed by NIOCHIM- State Scientific Research and Design Institute of Basic Chemistry- Ukraine. It employs Dry Lime Process which is more energy efficient as it uses the heat of reaction of lime with water. Total heat input is reduced by @12% w.r.t. conventional process. Also due to the dry lime process, the volume of effluent generation is reduced by almost 30% w.r.t. conventional process. It also uses the advanced version of DCS system designed by M/s. Yokogawa by which higher process efficiency is achieved due to faster and accurate response and hence it has created benchmark consumption norms. In addition, RSPL has started exploring advancements in RO technology that offer higher recovery compared to conventional methods. This technology enables the direct recovery of brine from seawater while reducing the effluent quantity in terms of solids.

ii. PP informed that RSPL uses the advanced Brine purification technology with double sludge wash to avoid wastages and reuse. The lime Kilns are also designed to use undersize limestone and coke in the periphery @20% w.r.t. sized limestone. The Kiln gas cleaning system employs Wet ESP to clean the gas thoroughly before the excess gas is vented off. The Kiln excess gas will be used in the production of Refined Sodium Bicarbonate which is being installed along with this project. Double scrubbing process is employed for Absorption gases which is unique as compared to the conventional process. The Boiler ESP are employed with FLS micro pulse technology-Coromax MKIV for meeting with the emission norms all the time. PP is also exploring sea water based FGD to use the acidic liquid to neutralize the plant effluent and minimize the consumption of virgin HCl. Plant effluent is automatically neutralized by virgin HCl through a closed loop control system. To maintain a clean environment approx. 60 bag filters are installed. The raw material handling system is covered within buildings and conveying is done in hood enclosed belt conveyors. Moreover, Dry fog system is also been implemented to control fugitive emissions.

iii. The RODM plant in existing facility of 1500 TPD Soda Ash Plant is based on membrane Technology for sea water desalination. The various types of water generated from RODM plant is utilized in Process, Captive Power Plant as well as potable & other purpose. In order to further improve the efficiency of RODM w.r.t recovery, RSPL is going for advancement in technology of membrane-based desalination plant i.e. to install Enriched Desalination Process in RO/DM

plant to meet internal brine and water requirement. The Advanced technology will have recovery of approx. 54% & above against the 33% from existing conventional plant. By using this technology, recovery of some brine (210 gpl) directly from seawater is also possible with reduction in effluent quantity in terms of solids by 24%. The recovered brine of 210 gpl can be used in Soda Ash process.

25. **Industry** has already developed 98 ha of greenbelt out of 189 ha. to be carried out including proposed expansion. Remaining area of 91 Ha. greenbelt development is in progress and will be developed. The industry will plant 227500 nos. of tree saplings in two phases.

26. Total Employment will be 110 persons as direct & 200 persons indirect after expansion. Industry proposes to allocate Rs 7.0424 crore @ of 0.45 % towards CER.

27. The estimated project cost is Rs. 1579 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 112.59 crore and the Recurring cost (operation and maintenance) will be about Rs. 10.425 crore per annum. The breakup of capital and recurring cost is as follows:

S No.	Head	Approximate Capital cost (INR, Lakhs)	Approximate Recurring cost per Annum (INR, Lakhs)	Basis for Cost Estimates
1	Air Pollution Control & Monitoring	5390	161	Capital cost: Cost of ESPs, Scrubbers, process stacks, bag filters, cover system for conveyor belts, sheds, water sprinkling systems
				Recurring cost: Annual Cost for repairs / maintenance of all air pollution control equipment
2	Water Pollution Control & monitoring	1755	62	Capital Cost: Cost for effluent treatment system, effluent drains, dilution pump, acid dosing; Cost for Construction of Sewage & drainage system, rainwater harvesting reservoirs
				Recurring cost: Operation and Maintenance cost of ETP & STP
3	Noise Pollution Control	30	1	Capital cost: Provision of acoustic enclosures, PPEs to workers/ employees
				Recurring cost: replacement of PPEs
4	Solid and Hazardous waste management	200	24	Capital cost: Storage and collection facility for settled solids, fly ash, hazardous waste, etc.
				Recurring cost: Disposal & transportation cost
5	Greenbelt Development	3471	726	Capital cost: Cost of greenbelt development, landscaping, installation of drip irrigation system, fencing
				Recurring cost: Maintenance of existing Greenbelt and nursery, wages to labours
6.	Occupational Health & Safety	83	5.5	Capital Cost: Cost of PPEs, new equipment.
				Recurring Cost: Health check-ups, maintenance of equipment/ machineries
7.	Environmental Monitoring cost	-	48	Recurring cost: Environmental monitoring through NABL approved laboratory, Marine Environment Monitoring off Kuranga Coast.
8.	Wildlife Conservation Plan	30	-	Awareness programmes for wildlife and sand dune conservation, supporting turtle conservation program, providing rescue vehicle facility, Supporting Turtle

				Conservation Programme, Cattle vaccination camp.
9.	Others	300	15	Capital cost: Replacement of equipment, procurement of new equipment, environmental studies Recurring cost: Statutory fees, GPCB lab sample fees, Environmental Audit report studies, Maintenance of online monitoring systems (CEMS & EQMS), Calibration and maintenance cost of in-house monitoring equipment.
	Total cost in Lakh	11259	1042.5	-
	Total cost in Crore	112.59	10.425	-

S. N.		Activity	Amount allocated (Rs. In Lakhs)
1	Total Cost	<ul style="list-style-type: none"> · Dense Soda Ash Plant · Refined Bicarbonate Plant · CFBC Boiler (1 no. x 150 TPH) 	157900
2	EMP Cost	<ul style="list-style-type: none"> · Cost of ESPs, Scrubbers, process stacks, bag filters, cover system for conveyor belts, sheds, water sprinkling systems · Cost for effluent treatment system, effluent drains, dilution pump, acid dosing; Cost for Construction of Sewage & drainage system, rainwater harvesting reservoirs · Provision of acoustic enclosures, PPEs to workers/ employees · Storage and collection facility for settled solids, fly ash, hazardous waste, etc. · Cost of greenbelt development, landscaping, installation of drip irrigation system, fencing · Cost of greenbelt development, landscaping, installation of drip irrigation system, fencing · Cost of PPEs, new equipment. · Awareness Programme for wildlife and sand dune conservation, supporting turtle conservation program providing rescue vehicle facility, Supporting Turtle Conservation Programme, Cattle vaccination camp. · Replacement of equipment, procurement of new equipment, environmental studies 	11259
3	Recurring cost	<ul style="list-style-type: none"> · Annual Cost for repairs / maintenance of all air pollution control equipment · Operation and Maintenance cost of ETP & STP · Replacement of PPEs · Disposal & transportation cost · Maintenance of existing Greenbelt and nursery, wages to labours · Health check-ups, maintenance of equipment/ machineries · Environmental monitoring through NABL approved laboratory, Marine Environment Monitoring off Kuranga Coast · Statutory fees, GPCB lab sample fees, Environmental Audit report studies, Maintenance of online monitoring systems (CEMS & EQMS), Calibration and maintenance cost of in-house monitoring equipment. 	1042.5
4	CER Cost	<ul style="list-style-type: none"> · Public Toilets · School Infrastructures & Other facilities · Cowshed and Ambulance for cows with Veterinary doctor · Drinking water facilities · Rural Development 	704.24
5	Land	--	--

6	P. H. Commitment and action plan in brief	<ul style="list-style-type: none"> Corporate Responsibilities Employment Coal Storage & Handling Management of Waste Water / Discharge to Sea Management of Hazardous waste Fire Safety Air Emission & Pollution 	704.24
7	Green belt	<ul style="list-style-type: none"> Green Belt Development, Landscaping, Installation of drip irrigation system, Fencing, Maintenance of existing greenbelt and Nursery Wages to labours 	3471
8	Conservation plan	<ul style="list-style-type: none"> Habitat improvement in study area Awareness Programmes for Wildlife and Sand dune Conservation Supporting Turtle Conservation Programme (for MNP's Okhamadhi Sea turtle hatchery) Conservation of grasslands, saline scrubs and features of Gaga Wildlife Sanctuary Providing rescue vehicle facility and treatment for wildlife whenever required Cattle vaccination camp through under CSR activities 	30
9	Water approval	<ul style="list-style-type: none"> The required recommendation for extraction of sea water is obtained from GCZMA vide Letter No. env/10/2024/16/T dated 11.04.2025 	
10	Critical issues related to the Project, (if any)	---	

28. Deliberations by the EAC:

The following points were discussed in the meeting:

1. Forest and Environment Department Government of Gujarat vide letter no File No ENV/10/2024/16/T dated 11th April, 2024 has conveyed CRZ recommendation for enhancement of existing seawater intake and outfall capacities from 600 MLD to 1200 MLD at existing Soda Ash Manufacturing Plant Facilities by RSPL Ltd. The intake and outfall pipelines fall under CRZ IA, CRZ IB, CRZ III and CRZ IV-A as per CRZ Notification 2011, details as given below:

Sl No.	Activity	CRZ Category	Clause permitted as per CRZ Notification 2011
1.	Intake Pipeline	CRZ IA, IB, III, IVA	3(i)(a), 4(ii)(d), 8.I(i)(b)
2.	Outfall Pipeline	CRZ IA, IB, III, IVA	3(i)(a), 4(ii)(d), 8.I(i)(b)

CRZ Division of the Ministry mentioned that there is typographical error w.r.t. clause mentioned in the recommendation letter of the SCZMA, which needs to be corrected. Accordingly, Forest and Environment Department, Government of Gujarat, vide letter no. ENV/10/2024/16/T dated 16.06.2025 has issued corrected activities wise permissible clauses under the CRZ notification 2011.

2. The proposal includes utilization of pipelines which are already laid down. No new construction activities are envisaged in the CRZ area. Main source of potential marine pollution is release of treated seawater through the scientifically designed diffuser systems. Marine EIA conducted by NIO and presented during the meeting that from the numerical modeling of far field dilution, it is predicted that the treated effluent concentrations reduce to 1.3 % to 0.1 % before reaching the coastline about 8-10 km south of the diffuser location. The concentrations at the intake location are predicted to be less than 1.5 %. Thus the impact of effluent at the sea water intake site will be minor. At proposed site there is no mangroves reported.

3. PP obtained CRZ recommendations from SCZMA, Gujarat. Matter was examined by the CRZ Division of the Ministry, wherein it is informed that the CRZ Notification 2011 is applicable in Gujarat under which the laying of pipelines in CRZ areas is a permissible activity.

4. PP obtained forest clearance vide file no. FCA-1015/10-23/15/SF-16-F dated 22.03.2016 for the intake and outfall pipeline corridor passing through the forest area diversion of 0.94 ha.

5. PP informed that total area to be developed for greenbelt is 189 ha. As on date 98 ha. of greenbelt has already been developed out of 189 ha. Greenbelt development in the remaining area of 91 ha. is in progress. PP submitted that Action plan along with map showing the area earmarked for greenbelt development in the remaining area of 91 Ha. which is as below:

S. No.	Greenbelt description	Greenbelt area (ha.)
1.	Total area as per EC condition	189
2.	Area developed and completed	98
3.	Area under progress	91

Greenbelt Development Plan for remaining area of 91 Ha.			
Timeline	Work Description	Area to be Planted (ha)	Number of Plants/ Saplings
May 2025	Sapling Procurement, Site cleaning and Development such as Bed preparation, Pit digging, etc. Plant Propagation in Nursery Area, Plantation activities, Application of Fertiliser/Manure, Drip Irrigation System, Installation and Fencing Work Etc.	91	2,27,500
June 2025			
July 2025			
August 2025			
September 2025			
October 2025			

The local species such as Badam (*Terminalia catappa*), Saru, Neem, Peltophorum, Paras Piplo, Gulmohar, Pongamia pinnata, Nerium oleander, Cascabelathevetia, Threvetiya, Kaseed, Bamboo, Australian Babool, Bougenvellia, Clerodendrum inerme, etc. will be planted for greenbelt development.

The estimated cost for development of remaining greenbelt development is approx. Rs 25 crores.

S. No.	Particular	Description	Amount (Rs.)
1.	Plantation	Mangrove Plantation of 100 ha. through Forest Department under MISHTI Programme for five years	37,74,800
2.	Wildlife Conservation	Awareness programs for wildlife and sand dune conservation, supporting turtle conservation program, providing rescue vehicle facility, Supporting Turtle Conservation Programme, Cattle vaccination camp.	30,00,000
3.	Renewable Energy	Solar Street Light Installation in nearby villages	8,63,340
4.	Plastic Waste	Plastic Waste collection and campaigns in nearby villages	34,18,360
5.	Water conservation	Water conservation activities for Ponds of nearby villages under Amrut Sarovar Yojana	13,66,607
		Towards Environmental Activities	1,24,23,107 ~ Rs. 1.24 Cr

B. Public Hearing Commitments:

S. No.	Particular	Description	Amount (Rs.)
1.	Public Toilets	Public Toilets (for travellers/visitors)	56,44,000
2.	School Infrastructures & Other facilities	Separate Toilet blocks in School	46,01,000
		Paver blocks in school compound (2500 sq. mts)	236,48,000
		Shed for Mid-day meal	

		Painting in schools School infrastructure upgradation (5 classrooms with painting, Smart class, Library room, Computer lab with 20 computers, Compound wall (240mtr) with main gate, Sanitation girls and boys, Fullscaps notebooks, Garden with lawn and paver block, RCC road in school campus, 24 hrs electricity, Smart TV-nos.3, Furniture, Drinking water facility, Smart Anganwadi), Road from National Highway to Kuranga Station Primary School	
3.	Cowshed and Ambulance for cows with Veterinary doctor	Cowshed making & Ambulance arrangement for animals Beneficial activities for Cowshed (Fodder for cows, Veterinary camps, repair and maintenance of cowshed)	51,77,000
4.	Drinking Water facilities	RSPL will support for laying pipeline for drinking water supply	59,69,000
5.	Rural Development	Rural development activities, Renovation of Hadmatiya village Gram Panchayat, Upgradation of Kuranga Gram Panchayat office, Crematorium upgradation in Hadmatiya village, repair and maintenance of road	2,53,85,000
Total Budget allocation towards public hearing commitments			7,04,24,000 ~ Rs 7.04 Cr

Further, fund towards EMP i.e. regarding pollution control measures w.r.t. Air emission, Water contamination, Hazardous Waste management, Fire Safety etc. has been allocated as Rs. 112.59 Crore.

7. PP submitted details of Show Cause Notice and action taken report.

8. PP provided details of court cases pending against the project proposal.

S. No.	Court Name	Brief Description	Case Category & Case No.	Status	Last Hearing Date	Court Orders
1.	High Court of Gujarat	Petitioner is a local villager and has complained regarding allotment of Government waste land to company. Notices served, the matter is sub judice and pending for hearing.	Special Application (SCA) 9264 of 2018	Pending The matter is sub judice and pending for hearing.	Last hearing date: 21.04.2025 for Adjourned for next hearing.	1. Last order dated 10.07.2018
2.	High Court of Gujarat	Petitioner is a local villager and has raised allegations against company regarding his private land issues. His allegations are that he is not able to carry out agricultural activities in the land in his possession and within project area. The matter is sub judice and proceedings have been stayed by Hon'ble Supreme Court in SLP (C) 26733-26734 of 2024 filed by RSPL limited. Further RSPL also moved by an Appeal (15 of 2024) to	Special Application (SCA) 6970 of 2023	Pending Proceedings stayed by Hon'ble Supreme court.	High Court Last hearing date: 19.11.2024: Supreme court Last hearing date 18.11.2024 NGT Last hearing date: 21.01.2025 Respondent No 2-GPCB requested adjournment and Respondent no 5 (Balubha	2. High Court order dated 19.11.2024. 3. Supreme Court order dated 18.11.2024 4. NGT order dated 21.01.2025 5. NGT order dated 21.01.2025.

		NGT Pune (Appellant authority) for remedy against closure notice issued by GPCB. The Hon'ble NGT has stayed the closure direction.			Ker) sought time for going through the rejoinder. NGT directed for final hearing on 05.06.2025.	
3.	Civil Court Devbhumi Dwarka Gujarat	RSPL has filed a suit against the party for specific performance regarding land. The matter is sub judice and pending for hearing.	Special Civil Suit 23 of 2019	Pending The matter is sub judice and pending for hearing.	Last hearing date: 10.03.2025 Adjourned for next hearing	6. Last order dated 08.07.2023
4.	High Court of Gujarat	Petition was filed regarding allotment of land to company. After hearing, his petition was dismissed by Hon'ble High Court of Gujarat.	WP(PIL) 178 of 2017	Disposed off The petition was dismissed by Hon'ble High Court of Gujarat.	30.10.2024	7. High Court order dated 30.01.2024
5.	High Court of Gujarat	Petitioner is a local villager and has complained regarding allotment of Government waste land to company. After hearing his petition was dismissed by Hon'ble High Court of Gujarat.	First Appeal 3535 of 2022	Disposed off The petition was dismissed by Hon'ble High Court of Gujarat.	07.10.2024	8. High Court order dated 07.10.2024.
6.	High Court of Gujarat	Petitioner is a local villager and has raised complained regarding Right of way to his private plot. After hearing his petition was disposed off by Hon'ble High Court of Gujarat. SCA 1788 of 2023 related to exchange of ALC land was also heard simultaneously along with above case and disposed off by Hon'ble High Court of Gujarat.	Special Civil Application (SCA) 20083 of 2019	Disposed off The petitions were disposed off by Hon'ble High Court of Gujarat	13.04.2023	9. High Court order dated 13.04.2023.

Forest and Environment Department of Government of Gujarat vide letter no. ENV/10/2024/16/T dated 16th May 2025 attached the comments of GPCB letter no. GPCB/CCA-JMN-107(12)/ID:43851/862913 dated 15th May 2025, wherein GPCB informed that in case no. SCA 6970 of 2023, Hon'ble High court of Gujarat by its order dated 27.03.2024 has directed GPCB to undertake remediation / soil change work. For the compliance of Hon'ble High Court order. GPCB have directed to R&B Department, Khambhalia to carry out Soil remediation work. R&B Department have carried out estimation of the remediation work of Rs. 1,57,15,000/. GPCB had deposited Rs. 1,57,15,000/- to R&B against soil remediation work. GPCB have directed to deposit the amount of remediation vide order Dtd. 29.05.2024 to RSPL limited, The RSPL limited had deposited an amount of Rs 1,57,15,000/- towards soil remediation work to GPCB. Further, R&B (Road and Building) department has issued 1TM tender notice and work order to M/s. Shiv Agency for carrying out the soil remediation work. However, due to onset of monsoon the work could not be completed as per the stipulated time period. R& B has again initiated the process of Re-tendering to complete the soil remediation work. At present retendering work is under process.

GPCB also clarified that there is no stay order passed by the Hon'ble court on the proposed expansion project of M/s RSPL Limited.

The committee was satisfied with the response provided by PP on above information.

The EAC deliberated the Onsite and Offsite Emergency plans and also the various mitigation measures proposed during the implementation of the project and advised the PP to implement the provisions of the Rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, as amended from time to time.

The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for the grant of environmental clearance.

The EAC is of the view that its recommendation and grant of environmental clearance by the regulatory authority to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The PP shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

29. Based on the proposal submitted by the PP and recommendations of the EAC, in its 99th EAC held on 29-30 April, 2025 (Industry-3 Sector), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance for "**Proposed Project of RSPL Chemical Complex for production of Dense Soda Ash (1500 TPD), Refined Bicarbonate (400 TPD), Captive Cogeneration Power (50 MW to 67 MW) AND CFBC Boilers (450 TPH to 600 TPH) at Existing Soda Ash Manufacturing Plant Facilities of M/s RSPL Limited, Village: Kuranga, Taluka: Dwarka, District: Devbhumi Dwarka, Gujarat**" under the provisions of the EIA Notification 2006 and its subsequent amendments therein, subject to compliance of the Specific and General terms and conditions as mentioned at **Annexure-1**. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

30. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.

31. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

32. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.

33. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

34. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance

and attract action under the provisions of Environment (Protection) Act, 1986.

35. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

36. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

37. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

This issues with the approval of the Competent Authority.

Copy To

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010 (Gujarat)
2. Deputy Director General of Forests (C) Ministry of Env., Forest and Climate Change, Integrated Regional Office, Gandhi Nagar, A-Wing – 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar - 382010
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043 (Gujarat)
5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
6. The District Collector, District **Devbhumi Dwarka**, Gujarat.
7. Guard File/Monitoring File/Website/Record File/Parivesh portal.

Annexure 1

Specific EC Conditions for (Soda Ash Industry)

1. Specific Conditions

S. No	EC Conditions
1.1	<p>This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.</p> <p><i>“Implementation of the directions of Hon'ble High Court w.r.t. soil remediation work shall be done in a time bound manner. CTO for expansion shall be granted by GPCB after satisfactory completion of soil remediation work. The implementation report shall be submitted to IRO, MoEFCC on six monthly-basis.”</i></p>
1.2	The company shall comply with all the environmental protection measures and safeguards proposed

S. No	EC Conditions
	in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
1.3	PP shall comply with the conditions stipulated in CRZ recommendations issued by Forest and Environment Department, Government of Gujarat vide letter no File No ENV/10/2024/16/T dated 11 th April, 2024 for enhancement of existing seawater intake and outfall capacities from 600 MLD to 1200 MLD at existing Soda Ash Manufacturing Plant Facilities.
1.4	Stack height of 122 m along with 5 fields ESP shall be provided to additional Coal fired boiler (1 x150 TPH) to control the particulate emissions as per the prescribed norms of CPCB/SPCB. Scrubber and ESP in series along with stack of 68m height shall be provided to kiln (4 Nos). Bagfilter alongwith stack height of 65 m shall be provided to Lime Grinding System (3 Nos.). Stack height of 30 m shall be provided to DG sets (2x2500 KVA). In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
1.5	Water Scrubbers along with stack of 42 m height shall be provided to Ammonia Recovery System-1 and Filtration / Calcination to control process emissions viz. Ammonia. Efficiency of scrubber shall be monitored regularly and maintained properly.
1.6	Total fresh water requirement from Arabian Sea shall not exceed 12,00,000 KLD.
1.7	The total industrial effluent generation shall not exceed 12,00,000 KLD. Process effluent shall be treated in ETP. Treated effluent should be discharged into Arabian Sea at a designated point having diffuser system as recommended by NIO after conforming to the standards prescribed for the effluent discharge and obtaining permission from the GPCB. Domestic sewage shall be treated in STP. Treated sewage shall be reused for horticulture purpose
1.8	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB servers. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
1.9	Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.
1.10	The PP shall develop greenbelt of at least 10 m width over an area of 189 ha (33.% of total area) within the project site mainly along the plant periphery, preferably within a year of the grant of EC. As on date 98 ha. of greenbelt has already been developed out of 189 ha. Remaining area of 91 ha.

S. No	EC Conditions
	Greenbelt development shall be achieved by end of October 2025. Additional 227500 tree saplings will be planted. Tree saplings selected for the plantation should be of sufficient height, preferably 6-ft shall be planted in greenbelt area. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP shall annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
1.11	Plantation of saplings shall be carried out as a part of tree plantation campaign "EK PED MA ke NAAM" and details of the same to be uploaded in the MeriLiFE portal (https://merilife.nic.in) in respect to this Ministry's OM No. IA3-22/3/2024-IA.III(E-241594) dated 24th July 2024.
1.12	A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions and shall also engage Environment Officials .In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
1.13	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP is Rs. 112.59 crores (Capital cost) and Rs. 10.425 crores per annum (Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
1.14	No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.
1.15	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
1.16	All the hazardous waste shall be managed and disposed as per the Hazardous and Other Wastes

S. No	EC Conditions
	(Management and Transboundary Movement) Rules, 2016. Hazardous waste such as Distillation Residue and Off Specification Products shall be either sent to common incineration site or sent for coprocessing. Solid waste shall be segregated into dry and wet garbage at site in accordance to the Solid Waste Management Rules, 2016. Wet waste shall be converted into compost and used as manure for greenbelt development.
1.17	Unit shall create covered coal storage along with facilities for gurand drain around coal handling area which leads to a settling pit. Pucca road shall be created in and around coal storage area and parking area.
1.18	Fly ash shall be stored in silo as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.
1.19	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996. The occupier of new as well as expansion projects shall be required to comply with the provisions of the MSHIC Rules, 1989 including notifying their activities or seeking site approval from the concerned authorities, to address operational safety aspects. In doing so, various schedule, particularly Schedule-5 of the said rules may be referred. PP shall comply with the safety measures proposed for handling of styrene to prevent accidents and exposure.
1.20	The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.
1.21	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
1.22	The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
1.23	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
1.24	The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any

S. No	EC Conditions
	wastewater shall not be allowed to mix with storm water.
1.25	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.
1.26	The activities and the action plan proposed by the project proponent to address the issues raised during the public hearing as well as the related socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.

Standard EC Conditions for (Soda ash Industry)

1.

S. No	EC Conditions
1.1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
1.2	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.
1.3	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.4	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
1.5	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
1.6	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions

S. No	EC Conditions
	stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
1.7	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
1.8	The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
1.9	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by e-mail.
1.10	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
1.11	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
1.12	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

Additional EC Conditions

N/A

Annexure 2

Details of the Project

S. No.	Particulars	Details
a.	Details of the Project	EC and CRZ Clearance of Proposed Project of RSPL Chemical Complex for Production of Dense Soda Ash (1500 TPD), Refined Bi-Carbonate (400 TPD), Captive Cogeneration Power Plant (50 MW to 67 MW) and CFBC Boilers (450 TPH to 600

S. No.	Particulars	Details	
		TPH) at existing Soda Ash Plant manufacturing facilities of RSPL Limited, Village: Kuranga, Taluka: Dwarka, District: Devbhumi Dwarka, Gujarat	
b.	Latitude and Longitude of the project site	22.004530768525,69.16522044538445 22.03654668779045,69.19506393069273	
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved	Area in Ha
		Non-Forest Land (A)	540.0663
		Forest Land (B)	0
		Total Land (A+B)	540.0663
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	
f.	Project Cost (in lacs)	577900	
g.	EMP Cost (in lacs)	11259	
h.	Employment Details		