

ENVIRONMENTAL STATEMENT REPORT FOR YEAR 2021-22

**M/s RSPL LIMITED,
Survey No. 471, Near Marvelore Mining & Allied Industries Pvt. Ltd.,
Dwarka-Porbandar Highway,
Village-Kuranga, District- Devbhumi Dwarka,
Gujarat – 361315**

Part- A

- (i) Name and address of the owner : Mr. Nareshkumar H. Phoolwani
Occupier of the Industry, operation : Shyam Vatika, Swaroop Nagar,
Kanpur-208002
- (ii) Date of the last environmental : 08.07.2021
Audit report submitted
- (iii) Production Capacity : Light Soda Ash – 1500 TPD
- (iv) Year of Establishment : October, 2018
- (v) Last Environment Statement : 30.06.2021
Submitted

Part- B
Water and Raw Material Consumption

(i) Water consumption m³ /d

Cooling : 368587.72 m³ / day (Average)
 Boiler : 3001.94 m³ / day (Average)
 Domestic : 51.88 m³ / day (Average)
 Process : 7166.98 m³ / day (Average)

Name of Products	Water consumption per unit of Products (m ³ / day)	
	During the previous Financial Year	During the Current Financial Year
Soda Ash	314.63	333.99

(ii) Raw Material Consumption

Name of raw material consume	Name of products	Consumption of raw material Per MT of Soda Ash (MT)
Salt	Light Soda Ash	1.761
Lime Stone		1.206
Coke		0.093
Coal		0.633
Ammonia		0.0013
Sodium Sulphide		0.0013

Remarks: Consumption of raw material is calculated based on the number of operating days i.e. 365 during the financial year 2021-22.

Part- C
Pollution discharges to environment/unit of output

(Parameters as specified in the consent issued)

Pollution	Quantity of Pollutants Discharged (Tonnes/day)	Average Concentration of Pollutants discharges (Mass/Volume)	Percentage of variation from prescribed standards	
Water				
Treated effluent discharge quantity	388457.75 KLD		Effluent discharge parameters are within the GPCB prescribed limit.	
1) pH	-	8.38 units		
2) TSS	294.74 TPD	758.67 mg/l		
3) NH4-N	1.07 TPD	2.76 mg/l		
4) Oil and grease	N.D.	N.D.		
5) Colour	-	10.90		
6) Temperature	-	30.14°C		
Air				
a) For Boiler Stack				
1) PM	0.63 TPD	49.90 mg/Nm ³	Air Emission parameters are within the GPCB prescribed limit.	
2) SO ₂	2.90 TPD	231 mg/Nm ³		
3) NO _x	0.22 TPD	17.46 mg/Nm ³		
b) For Process Stack				
i) Kiln				
1) PM	0.027 TPD	44.9 mg/Nm ³		
2) SO ₂	N.D.	N.D.		
3) NO _x	0.0047 TPD	7.89 mg/Nm ³		
ii) Lime grinding				
4) PM	0.0065 TPD	25.2 mg/Nm ³		
iii) Ammonia Recovery System				
1) NH ₃	0.009 TPD	21.02 mg/Nm ³		
iv) Filtration & Calcination				
1) NH ₃	0.0023 TPD	9.75 mg/Nm ³		

Note: N.D.= Not detected

**Part- D
Hazardous Wastes**

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
From process		
Used Oil	5740	11810
Discarded Containers	50	1200
Spent Resins	NIL	NIL
From pollution Control Facilities	NIL	NIL

Remarks: Due to pandemic situation of Covid, quantity disposed in current Financial Year exceeded from consented quantity

**Part- E
Solid Wastes**

TOTAL QUANTITY (MT)		
	During the Previous Financial Year	During the Current Financial Year
From Pollution Control Equipment:		
Fly Ash	47500	76326

Part- F

Please specify the characterizations (in terms of composition of quantum) of Hazardous as well solid waste and indicate disposal practice adopted for both these categories of wastes.

Sr. No.	Waste	Composition	Disposal
1	Used oil	Hydrocarbon	Used oil generated is disposed off through GPCB authorized reprocessor/ recycler.
2	Discarded Containers	MS and PVC	Discarded containers are disposed off through GPCB authorized reprocessor/ recycler.
3	Fly Ash	Un-burnt Carbon	Fly Ash is being sent to nearby cement industry (Shree Digvijay Cement Company Ltd., Saurashtra Cement Ltd., Tarun Enterprises, Samay Trading) for utilization. Remaining Fly Ash is being utilized in construction of roads through third party (M/s. Manek Global Infra). Fly ash handling guidelines are being complied with.

Part- G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- The fly ash generated is being sold to nearby Cement industry for utilization and remaining Fly Ash is being utilized in construction of roads through third party.
- Undersized limestone utilization has been improved by reducing reject screening size from 20 mm to 10 mm, thus reducing overall waste generation from process.
- Limestone dust and the under-size limestone are being used in boilers for desulphurization of the gases.
- Online excess lime analyzer in distiller effluent has been commissioned to reduce lime consumption and is also assisting in reducing TSS & pH of effluent.

Part- H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- Three rainwater harvesting ponds (~7.6 lac m³) have been constructed within the plant site. Collected water is being utilized in Greenbelt Development activities.

Sl. No.	Particulars	Volume (m ³)
01.	Reservoir-1	258207
02.	Reservoir-2	395854
03.	Reservoir-3	109760
Total		763823

- STP treated water and sewage is also being utilized in Greenbelt Development within the plant premises.
- Greenbelt is being developed in phase wise manner along the plant boundary, along the internal roads, near workshop area, ammonia storage area, near offices, sub-station 2, south side of Utility etc. Plantation in about 45 ha. has been completed till date having different species such as Saru, Neem, Peltophorum, Paras Piplo, Gulmohar, Pongamia pinnata, Royal-palm, Nerium oleander, Cascabelathevetia, Threvetiya, Kaseed, Bamboo, Australian Babool, Bougenvellia, Clerodendrum inerme, Conocarpus etc. Nursery has also been developed to accommodate about 50,000 plants saplings.
- Drip irrigation system has been installed in 40 acres to reduce the wastage of water. Further treated STP water is utilized in plantation area.

Part- I

Any other particulates in respect of environmental protection and abatement of pollution.

Not Applicable

Place : Village Kuranga, District Devbhumi Dwarka

For RSPL Limited

Date : 01.07.2022


Authorized Signatory