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PTN:382045, BSE GANDHINAGAR SO
From:BEIL INFRAS.D 43 GTRC
Dt:55nms

Ref: BEIL/DHJ/2022-23/11

The Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan
Sector - 10 / A
Gandhinagar - 382 043

Dear Sir,

Sub: Environmental Statement for the year 2021-22

We are forwarding herewith Environmental Statement for our TSDF Facility (Centralized Secured Landfill Facility) situated at BEIL, Plot No D-43 G.I.D.C, Dahej, Ta: Vagra, Dist. Bharuch for the period of year 2021-22

We are forwarding copy of the Manifest regarding collection and disposal of waste from our member industries to GPCB Bharuch on a regular basis.

We have received following CTE & CCA Amendment from GPCB during the last year

1. CTE Amd - 99998 for Name change and Fuel Change.
2. CCA Amd - 113917 for Capacity Enhancement of landfill cells.
3. CTE Amd- 115207 for installation of scrubber with stabilization system & paddle dryer system.
4. CCA Amd II-117353 under Rule 09 for utilization of Magnesium Chloride Salts as a raw material in MAP treatment.

Also, we would like to bring to your kind attention that we have got certification of ISO 14001:2015 & ISO 45001:2018

Also, we would like to bring to your kind attention that our laboratory has been accredited by NABL.

We hope that the above is in order.

Thanking you
Yours faithfully
For, BEIL Infrastructure Ltd

Authorized Signatory

Encl: a/a
CC: The Regional Officer
Gujarat Pollution Control Board
Bharuch

Bluish
Post Received
Gujarat Pollution Control Board
BHARUCH
24/6/22

CIN NO. U45300GJ1997PLC032696

Works Office : Plot No. D-43, Dahej Amod Road, GIDC Estate, Dahej, T. Vagra - 392 130, Dist. Bharuch (Gujarat)
Phone : (02641) 291129, E-mail : mistryrg@beil.co.in
Regd. Office : Plot No. 9701-16, GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225228 Fax : (02642) 222849 E-mail : dalwadibd@beil.co.in

**BEIL INFRASTRUCTURE LIMITED**

(formerly known as Bharuch Enviro Infrastructure Limited)

Unit - Dahej

Ref: BEIL/DHJ/2022-23/11

Date: 21.06.2022

PCB ID # 40137

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Gujarat Pollution Control Board
Paryavaran Bhavan
Sector - 10 / A
Gandhinagar - 382 043

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ENVIRONMENTAL STATEMENT

Environmental Statement for the financial year ending 31st March 2022
PART - A

01	Name and address of the owner / occupier of the industry / operation or process		Chairman – Mr. Rajjubhai D. Shroff Director – Mr. Ashok Panjwani Operator – Mr. B.D. Dalwadi BEIL Infrastructure Ltd Plot # D-43, GIDC, Dahej, Ta : Vagra Dist : Bharuch
02	Industry Category	Primary – STC Code	
		Secondary – SIC Code	
03	Production capacity	Units	Not applicable, it is a TSDF Facility (Common Secured Landfill Facility)
04	Year of establishment		2015
05	Date of the last Environmental Statement submitted		07.06.2021

PART - B

01 Water and Raw material Consumption

01	Water Consumption	107.52 m ³ /day
02	Process	9.49 m ³ /day
03	Domestic	89.618 m ³ /day
04	Biodegradable	8.49 m ³ /day
Sr. No.	Name of Products (*)	Process Water Consumption per unit of product output
1.		During the previous financial year During the current financial year
(*)	There is no manufacturing activity as this is a TSDF Facility	
	Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw material used.	

02 Raw Material Consumption

Sr. No.	Name of Products (*)	Consumption of raw material (in Kgs)
		During the previous financial year During the current financial year
	Not applicable. It is a TSDF Facility (Common Secured Landfill Facility)	

PART - C

Pollution discharged to environment / unit of output
(Parameters as specified in the Consent issued)

Sr, No.	Pollutants	Quantity of pollutants discharged	Concentrations of pollutants in discharges (mass / volume)	Percentage of variation from prescribed Standards with reasons
A	Water	<p>8297.40 KL of Leachate collected from Leachate well of Secured landfill facility.</p> <p>8297.40 KL Leachate is treated in in-house MEE at BEIL Dahej.</p>	<p>The Leachate is neutral containing trace organics and impurities.</p>	<p>Leachate from landfill & Wastewater generated from Laboratory is treated at BEIL, Dahej.</p>
B	Air	<p>Generated pollutant from Spray Dryer stack and Boiler stack. DG Set are negligible.</p>	<p>From DG, Boiler & Spray Dryer Set stacks: PM < 150 mg/Nm³ SO_x < 100 mg/Nm³ NO_x < 50 mg/Nm³</p>	<p>All parameters specified in CC & A are within limits</p>
		<p>Generated Pollution form Scrubber of De-contamination</p>	<p>PM < 150 mg/Nm³ HCl < 20 mg/Nm³ Cl₂ < 09 mg/Nm³</p>	<p>All parameters specified in CC & A are within limits</p>

Part – D
Hazardous Waste

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.)

Hazardous Wastes	Total Quantity (MT)	
	During the previous financial year 2020-21	During the current financial year 2021-22
a From Process	(*)	(*)
b From pollution control facilities (MEE salt & ETP Sludge)	6982.834 MT	8749.66 MT
(*) This being a TSDF Facility (Common Secured Landfill Facility), different types of wastes permitted by GPCB, are collected from member industries, and disposed at the landfill site as per CPCB guideline. Please see the attached Table for quantity disposed at the site.		

Part – E
Solid Waste

Hazardous Wastes	Total Quantity (MT)	
	During the previous financial year 2020-21	During the current financial year 2021-22
A From Process	(*)	(*)
B From pollution control facilities (generation)	NIL	NIL

C	Quantity re-cycled or re-utilized within the unit	NIL	NIL
	Total quantity disposed off for landfill	200135.551 MT	2,32,141.16 MT
<p>This is being a TSDF Facility (Common Secured Landfill Facility), different types of wastes permitted for landfill by GPCB, are collected from member industries and disposed at the site. Please see the attached Table for quantity disposed at the site.</p>			

Part – F

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

BEIL is receiving accepted types of wastes for secured landfilling. If waste is not meeting criteria for direct landfilling, necessary treatment like neutralization / stabilization etc. are given. Leachate generated is treated at in-house MEE followed by Spray Dryer

Part – G

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

The Company has implemented Environmental Management System Standards ISO 14001:2015 & ISO 45001:2018 and helped in improving overall environmental condition and Safety of the unit.

This being a TSDF Facility (Common Secured Landfill Facility), there is no processing activity. We are collecting solid / hazardous wastes from our members and treating & disposing off. We are drawing samples from every truck coming to our site and a Quick Analysis is done for pH, Moisture Content and Organic Content, Paint Filter Liquid Test etc. Also, we are verifying whether waste is uniform and is not having any obnoxious smell. Also, detailed analysis of solid / hazardous waste samples is done at the laboratory. During monsoon period, the site is kept covered. We have also provided a storage facility for keeping the solid / hazardous wastes collected during monsoon. Leachate generated from the landfill is treated in in-house MEE at BEIL Dahej.

Landfill Site (Cell-I): - Capped

Landfill Site (Cell II & V): - Partially capped

Landfill Site (Cell III & Cell IV): - Under Operation

BEIL has installed multiple effect evaporation system (MEE), which is energy efficient compared to other evaporation system. We have Received CCA on 16.12.2017 and it is in operation.

Part – H

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

- GPCB XGN Online manifest system implemented for all industries.
- Laboratory at BEIL is NABL accredited.
- BEIL is also going for recognition of MoEF for Laboratory.
- Total investment for environmental protection including abatement of pollution, prevention of pollution is approximate 1,30,96,914 Lacs during the year 2021-2022. Details are as following:
 - ✓ Tarpaulin covering with LDPE sheet.

- ✓ Install Bag House filter instead of Cyclone Separator for Reduction of Spray dryer plant stack SPM minimum 20% and scrubber Caustic Consumption reduce minimum 50%
- ✓ Install ultra-Filtration for increasing RO plant recovery.

Part – I

Any other particulars for improving the quality of the environment.

- BEIL has implemented Environmental Management System Standards ISO 14001:2015 & ISO 45001:2018. Implementation of ISO 14001:2015 & ISO 45001:2018 has helped in improvement of the environmental protection and Safety.
- For the design of secured landfill, guidance is sought from Indian Institute of technology (IIT), New Delhi, who are the experts in the areas of hazardous waste management. All the designs are approved from IIT, New Delhi.
- Lot of NGOs, community members, journalists, students, and industrialists are visiting BEIL and appreciating the operations. BEIL is exhibiting various details in front of the landfill. All the visitors are welcome.
- BEIL is maintaining a proper Manifest system as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. This helps in keeping proper records.
- Laboratory has been augmented. Laboratory got recognition of NABL.
- Green belt is developed around the periphery.

For, **BEIL Infrastructure Limited, Dahej**



Authorized Signatory

**BEIL INFRASTRUCTURE LTD
DAHEJ**

LANDFILLING DETAILS

**Quantity of solid / hazardous waste received and disposed off
During April- 2021 to March – 2022**

Sr No	Month	Received Quantity	Disposed Quantity
All quantity in MT			
1	April- 2021	28563.01	28563.01
2	May- 2021	18983.12	18983.12
3	June -2021	10993.728	0
4	July -2021	8202.17	0
5	August -2021	9066.025	0
6	September -2021	9690.085	0
7	October -2021	11803.465	10337
8	November-2021	27013.69	33013.9
9	December -2021	29481.984	39982
10	January- 2022	35359.555	42759.555
11	February- 2022	31361.95	38361.95
12	March - 2022	27140.855	20140.86
TOTAL		2,47,659.64	2,32,141.16

**BEIL INFRASTRUCTURE LTD
DAHEJ**

**Decontamination & detoxify facility
During April- 2021 to March – 2022**

Month	No. of Drum decontaminated & detoxified
April- 2021	3380
May- 2021	2153
June -2021	3297
July -2021	3300
August -2021	6806
September -2021	4719
October -2021	4757
November-2021	5314
December -2021	6667
January- 2022	7469
February- 2022	7500
March - 2022	5880
Total	61242

**BEIL INFRASTRUCTURE LTD
DAHEJ**

**Wastewater generated from Landfill (Leachate) sent to
MEE at BEIL, Dahej during April- 2021 to March – 2022**

Month	Generated Leachate from land filling Treated in in-house MEE (KL)
April- 2021	358.10
May- 2021	727.70
June -2021	664.00
July -2021	1064.80
August -2021	560.00
September -2021	698.00
October -2021	976.10
November-2021	555.9
December -2021	769.7
January- 2022	618.6
February- 2022	622
March - 2022	682.5
Total	8297.40