ALKYL

Alkyl Amines Chemicals Limited

Factory : Plot No. D-2/CH/149/2, GIDC Dahej-2 Industrial Area, Tal. Vagra, Dist. Bharuch - 392110 Gujarat (INDIA)
Tel : 7202866622 / 7573066622 • GST No. : 24AAACA6783F1ZS
Email : alkyl@alkylamines.com • Web : http://alkylamines.com

Responsible Care®
OUR COMMITMENT TO SUSTAINABILITY

Date: 11.01.2024

To,

SEIAA Office

Gujarat Pollution Control Board,

Paryavaran Bhavan,

Sector - 10/A,

Gandhinagar - 382010

SEIAAuthority
Received in
M.S. Office
Dt. 12/01/2024

Subject: Six Monthly Compliance Report as on dated 01-~~June~~ Dec-2023.

Dear Sir,

We, M/S Alkyl Amines chemicals limited, Received Environment Clearance from SEIAA, Gujarat for setting up of the proposed manufacturing unit of synthetic organic chemicals at D/2, CH/149/2, GIDC, Phase-II, Dahej, Ta-Vagra, Dist.- Bharuch, State-Gujarat from the SEIAA/GUJ/EC/5(f)/1294/2021, dated 02 July 2021.

We are submitting here with attached six monthly compliance report for the period of June-2023 to Nov-2023.

Yours faithfully,

Alkyl Amines Chemicals Ltd. • Dahej

Nitin Patel

Works Manager

Alkyl Amines Chemicals Limited

Monitoring implementation of Environmental Safe Guards
Ministry of Environment &Forest Western Region,
Regional Office Bhopal
PART-1
DATASHEET

<table>
<tr><td>1</td><td>Project Type: River Valley/Mining/Industry/Thermal/Nuclear/Other (Specify)</td><td>:</td><td>Manufacturing of Chemicals</td></tr>
<tr><td>2</td><td>Name of the project</td><td>:</td><td>Alkyl Amines Chemicals Limited</td></tr>
<tr><td>3</td><td>Clearance Letter(s) / OM No. and Date</td><td>:</td><td>Existing EC no. SEAA/GUJ/EC/5(f)/1298/2021 dated 02/07/2021</td></tr>
<tr><td>4</td><td>Location:
a) District
b) State
c) Location Latitude / Longitude</td><td>:</td><td>a) Bharuch
b) Gujarat
c) Latitude/Longitude
<table>
<tr><th>Location</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>A</td><td>21° 44’ 17.41” N</td><td>72° 38’ 28.15” E</td></tr>
<tr><td>B</td><td>21° 44’ 18.66” N</td><td>72° 38’ 42.71” E</td></tr>
<tr><td>C</td><td>21° 44’ 16.85” N</td><td>72° 38’ 44.54”</td></tr>
<tr><td>D</td><td>21° 44’ 13.90” N</td><td>72° 38’ 47.94” E</td></tr>
<tr><td>E</td><td>21° 44’ 14.48” N</td><td>72° 38’ 47.83” E</td></tr>
<tr><td>F</td><td>21° 44’ 14.61” N</td><td>72° 38’ 48.60” E</td></tr>
<tr><td>G</td><td>21° 44’ 12.82” N</td><td>72° 38’ 49.00” E</td></tr>
<tr><td>H</td><td>21° 44’ 10.88” N</td><td>72° 38’ 28.83” E</td></tr>
</table></td></tr>
<tr><td>5</td><td>Address for correspondence
a) Address of the Concerned Project Chief Engineer (with Pin code & telephone / telex / fax numbers)
b) Address of the Executive Project Engineer / Manager (with Pin code & telephone / telex / fax numbers)</td><td>:</td><td>a) Mr. Sameer Katdare
Vice President (Technical)
Alkyl Amines Chemicals Limited
20/6, Hadapsar Industrial Estate, Hadapsar,
Pune 411013 Phone 020 – 66447816
Fax: 020-66447830
b) Mr. Nitin Patel
General Manager (Works)
Alkyl Amines Chemicals Limited
Plot No-D2/CH/149/2,GIDC Estate ,
Dahej-II, Dist.-Bharuch
Tele : 02641-350710</td></tr>
<tr><td>6</td><td>Salient features
a) Of the project
b) Of the Environmental management plans</td><td>:</td><td>a) Salient features of the project:
1. Good techno commercial viability
2. Products will serve to cut the supply of imports from foreign countries thus saving currency and at the same time will earn</td></tr>
</table>

			valuable foreign currency by export of products. 3. Leading position in the domestic market and a presence in the international market with a reputation for reliable service and quality products 4. Installed High-Efficiency ESP, Scrubber etc. for boilers to control emission. 5. Located in GIDC Dahej having good infrastructure facility, availability of power from DGVCL, availability of water from GIDC, availability of CETP for handling our treated effluent and availability of GIDC effluent pipeline to sea etc. b) Salient features of Environment Management Plan: 1. All vehicle come at site will allowed only with valid PUC and registration of Nicer globe. 2. Greenbelt is been developed. 3. GIDC plot adjacent to our factory were taken on lease for development of green belt.
7	Breakup of the project area a) Submergence area: forest & non-forest b) Others	:	Not Applicable
8	Breakup of the project affected population with enumeration of those losing houses/dwelling units only agricultural land only Both dwelling units & agricultural land & landless labourers/artisans: a) SC, ST/Adivasi b) Others	:	Not Applicable
9	Finance details: Project cost as originally planned and subsequent revised estimates and the year of price reference a) Allocation made for environmental management plans with item wise and year wise break up b) Benefit cost ratio/internal rate of return and the year of assessment c) Whether includes the cost of environmental management as shown in the above d) Actual expenditure incurred on the project so far e) Actual expenditure incurred on the environmental management plans so far	:	INR 375 crores (EC-I) + 45 crores (EC II)+70 Crores(EC-III) a) 1220.83 Lakhs for the Year of 2018-2019 & 115.48 Lakhs for year of 2019-2020 & 65.86 lakhs for the year of 2020-2021 & 79.69 lacs for 2021-22 & 132.65 Lakhs budget 2022-23. b) IRR 14% for Methylamines plant 2018 & IRR-30.74% for Amine hydrochloride plant 2021 & Acetonitrile 25.00 % 2021-22 c) yes d) 411.66 cr. e) More than 10 cr.
10	Forest land requirement	:	Not Applicable as the unit situated at GPCB Notified industrial zone.

	a) The status of approval for division of forest land for non-forestry use b) The status of clearing felling c) The status of compensatory afforestation, if any d) Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far		
11	The status of clear felling in non-forest area (such as submergence area or reservoir, approach roads) if any with quantitative information required	:	Not Applicable as the unit situated at GPCB Notified industrial zone.
12	Status of construction (actual &/or planned) a) Date of commencement (actual &/or planned) b) Date of completion (actual &/or planned)	:	NA
13	Reason for delay / the project is yet to start	:	Not applicable as plant is started on time as per schedule.

DETAILS OF SHOW CAUSE NOTICE ISSUED IN LAST 3 YEARS:

S. No.	Issued Date	Reply date	SCN No.	Notice	Compliance status
1	13.01.2020	11/10/2020	569701	As per analysis report of sample collected from final outlet of ETP, Ammonical nitrogen is 109.48 mg/l which is more than permissible limit (limit NH3-N: 50 mg/l)	After getting off spec results from GPCB we verified our ETP upstream and downstream performance. We observed process condenser was leaking and creating high TAN value in upstream of ETP. We have rectified condenser leak and now upstream parameters are well within the limits. Latest ETP inlet and outlet report from MoEF approved laboratory is attached as ***Annexure 1.***
2	13.01.2020	11/10/2020	569701	Unit has not provided scrubber with coal based boiler as per circular dated 15/05/2019.	We have provided scrubber and ESP as APCM for control of SOx & PM to the existing Coal Boiler. We are also in practice of lime dosing to the coal for reduction in SO_X. Details of scrubber are given in ***Annexure 2*** and

					photographs of scrubber and ESP are given in ***Annexure 3.***
3				The online analyzers are not connected with CPCB and GPCB server.	We have installed online analyzer for ETP outlet as per consent norms during startup of the plant. However, the connection was not established with GPCB server at the time of GPCB officers visit. Now ETP outlet analyzer is connected with GPCB server from 17th June, 2020. Refer snapshot of the readings in ***Annexure 4.*** We have also installed boiler stack online monitoring sensor but we are unable to stabilize the system as there are technical issues. Our present CEMS instrument is out of order and it is sent for rectification and will be received in December 2020. Then after we will connect it to GPCB & CPCB server. Till the time we have changed frequency of testing stack samples. We are now weekly analyzing stack samples from GPCB approved vendor. Results of weekly monitoring from 5th June 2020 to 18th September 2020 are given in Error! R eference source not found.**5** for your reference.
4				Coal is found stored in open near boiler area.	We had made temporary shed for the coal storage during last monsoon and demolished after monsoon for installing a second boiler for our Phase III expansion plan of existing EC. The civil work is in progress for boilers, chimney, ESP etc. Adequate space is required for the erection of these big equipment ensuring

					construction safety after civil foundation. The site work has been suspended since Mar-20 due to Covid-19 outbreak and affected our overall implementation schedule. Our erection of a new boiler along with a permanent shed (as per coal handling procedure released by GPCB) for the storage of coal will complete by the end of March-21. Till date we have provide a temporary monsoon shed. Refer attached **Annexure 6** for the photographs of monsoon shed.

Show cause Notice dated 11/10/2020

GPCB

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, Gandhinagar 382 010
Phone : (079) 23222425
(079) 23232152
Fax : (079) 23232156
Website : www.gpcb.gov.in

BY R.P.A.D.

SHOW CAUSE NOTICE

The Board has monitored your industry on 13/01/2020, it was observed that:

- As per analysis report of sample collected from final outlet of ETP, Ammonical nitrogen is 109.48 mg/l which is more than permissible limit (limitNH3-N: 50 mg/l).
- Unit has not provided scrubber with coal based boiler as per circular dated 15/05/2019.
- The online analyzers are not connected with CPCB and GPCB server.
- Coal is found stored in open near boiler area.

This indicates that you have failed to fulfill the provision of the Water Act- 1974 and consequently you have rendered yourself liable to be prosecuted under the said Acts/Rules.

In view of the above, you are called upon to show cause within 15 days why legal action should not be initiated against your industrial unit. Please note that failure to provide above information within 15 days; it will be understand that you have nothing to say in this regard and therefore the Board will take action in accordance with the relevant Environment Acts/ Rules.

For and on behalf of
Gujarat Pollution Control Board

(P.B. Patel)
DY. ENVIRONMENT ENGINEER

NO. GPCB/BRCH-B-CCA-210/ID: 47630/ **DT: /10/2020**

To,
M/s. Alkyl Amine Chemicals Limited,
PLOT NO:D2/CH/149/2,
GIDC, Dahej-II, TAL : Vagra
DIST. BHARUCH- 392130

Reply on show cause notice dated 11/10/2020

ALKYL
Alkyl Amines Chemicals Limited
D-2/CH-149/2, Dahej-Phase II, Industrial Estate GIDC,Tal.- Vagra, Dist.-Bharuch. Gujarat-392110 (India)
Tel : 7202866622 / 7573066622 • GST No : 24AAACA6783F1ZS
Email : alkyl@alkylamines.com • Web : http://alkylamines.com

Responsible Care®

Post Received
Gujarat Pollution Control Board
BHARUCH

Gujarat Pollution Control Board
Head Office
Sector No. 10-A,
Gandhinagar-382010

Date: 13.10.2020

PCB ID: 47630

To,
Gujarat Pollution Control Board
Paryavaran Bhavan,
Sector 10-A, Gandhinagar

Subject: Reply to show cause notice received forour existing Facility located at Plot No. D2/CH/149/2, GIDC Dahej, Phase II

Reference: Show Cause Notice received on XGN dated 11.10.2020 for M/s. Alkyl Amines Chemicals Limited

Kind Att'n: Dy. Environment Engineer, Bharuch Unit, Gandhinagar.

Dear Sir,

With reference to the show cause notice received on XGN vide Letter No. GPCB/BRCH-B-CCA-210/ID:47630/ 569701 dated 11.10.2020, we would like to give following point wise reply.

Sr. No.	Observation in Notice	Clarification/ Details
1	As per analysis report of sample collected from final outlet of ETP, Ammonical nitrogen is 109.48 mg/l which is more than permissible limit (limit NH3-N: 50 mg/l)	After getting off spec results from GPCB we verified our ETP upstream and downstream performance. We observed process condenser was leaking and creating high TAN value in upstream of ETP. We have rectified condenser leak and now upstream parameters are well within the limits. Latest ETP inlet and outlet report from MoEF approved laboratory is attached as ***Annexure 1.***
2	Unit has not provided scrubber with coal based boiler as per circular dated 15/05/2019.	We have provided scrubber and ESP as APCM for control of SOx& PM to the existing Coal Boiler. We are also in practice of lime dosing to the coal for reduction in SO_x. Details of scrubber are given in ***Annexure 2*** and photographs of scrubber and ESP are given in ***Annexure 3.***
3	The online analyzers are not connected with CPCB and GPCB server.	We have installed online analyzer for ETP outlet as per consent norms during startup of the plant. However, the connection was not established with GPCB server at the time of GPCB officers visit. Now ETP outlet analyzer is connected with GPCB server from 17th June, 2020. Refer snapshot of the readings in ***Annexure 4.***

LKYL
kyl Amines Chemicals Limited
L3H-149/2, Dahej-Phase II, Industrial Estate GIDC,Tal.- Vagra, Dist.-Bharuch. Gujarat-392130 (India).
7202866632 / 7573066622 • GST No : 24AAACA6783F1ZS
A : alkyl@alkylamines.com • Web : http://alkylamines.com

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Sr. No.	Observation in Notice	Clarification/ Details
		We have also installed boiler stack online monitoring sensor but we are unable to stabilize the system as there are technical issues. Our present CEMS instrument is out of order and it is sent for rectification and will be received in December 2020. Then after we will connect it to GPCB & CPCB server. Till the time we have changed frequency of testing stack samples. We are now weekly analyzing stack samples from GPCB approved vendor. Results of weekly monitoring from 5th June 2020 to 18th September 2020 are given in Error! Not a valid result for table.**5**for your reference.
4	Coal is found stored in open near boiler area.	We had made temporary shed for the coal storage during last monsoon and demolished after monsoon for installing a second boiler for our Phase III expansion plan of existing EC. The civil work is in progress for boilers, chimney, ESP etc. Adequate space is required for the erection of these big equipment ensuring construction safety after civil foundation. The site work has been suspended since Mar-20 due to Covid-19 outbreak and affected our overall implementation schedule. Our erection of a new boiler along with a permanent shed (as per coal handling procedure released by GPCB) for the storage of coal will complete by the end of March-21. Till date we have provide a temporary monsoon shed. Refer attached **Annexure6** for the photographs of monsoon shed.

We hope above clarification is in line with your requirement. We request you to donot take any legal action.

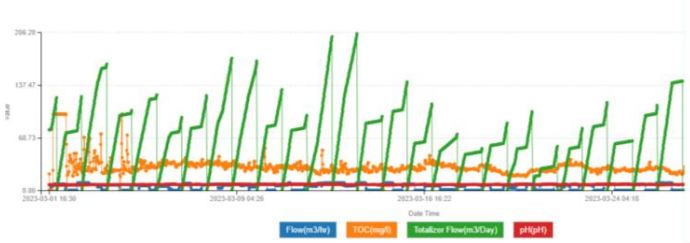
Thanking You,

Yours Sincerely,

Authorized Signatory,

Alkyl Amines Chemicals Limited

C. C. to G.P.C.B. Bharuch

S. No	Points	Compliance Status
A. CONDITIONS:		
A-1: SPECIFIC CONDITIONS		
1.	Unit shall install CEMS **[Continuous Emission Monitoring System]** in line to CPCB directions to all SPCB vide letter no. B-29016/04/06PCl-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be company's server which can be assessable by the GPCB/CPCB on real time basis. **[For Small/Large/Medium (Red Category) & Whichever emission & Effluent discharge) is applicable].**	Complied The CEMS is linked with GPCB server. The screenshot of the linkage with GPCB server is given in below 
2.	All measures shall be taken to prevent soil and ground water contamination.	Complied • Safety measures to prevent soil and ground water contamination are as below: 1) Dyke walls at storage areas are been provided as secondary containment.  2) Process effluent is connected directly to ETP through pipeline instead of open drains, this reduces seepage chances.  3) In process area, skirting is provided to avoid entry of effluent to storm water/on ground. 4) Provided acid alkali proof tiling in necessary areas.

S. No	Points	Compliance Status
3.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November 2009 shall be complied with.	Complied Ambient Air Monitoring is carried out by third party. It is done by M/s. Unistar Environment and research lab pvt.ltd . It is MoEF&CC approved and NABL accredited laboratory (Certificate no. TC-7753 dated 23/09/2020 & Valid till 22/09/2022). Summary of 6 months (Jun-2023to Nov -2023) Monitoring results are given below:

Sampling Location	Range	Parameters specified by SPCB Norms				
		PM^{10}	$PM^{2.5}$	SO_2	NOx	NH_3
		100 µg /Nm3	60 µg /Nm3	80 µg /Nm3	80 µg /Nm3	400 µg /m3
Nr.Material Gate	Max	84.4	31.0	24.2	26.3	0.0
	Min	74.5	24.0	18.8	21.7	0.0
	Avg	78.9	27.7	21.0	23.8	0.0
Behind DM plant	Max	84.2	30.2	21.6	24.4	0.0
	Min	72.9	23.7	16.4	18.5	0.0
	Avg	79.9	27.2	19.0	21.8	0.0
B/H methyl amine plant	Max	82.4	30.4	19.6	23.0	0.0
	Min	68.5	20.8	14.4	17.0	0.0
	Avg	72.9	23.6	16.8	19.7	0.0
Nr. Methanol stoarge area	Max	79.2	27.3	19.6	24.2	0.0
	Min	70.2	21.7	15.0	18.5	0.0
	Avg	74.7	25.1	17.1	20.4	0.0
Behind boiler area	Max	87.1	31.6	21.5	24.2	0.0
	Min	78.6	26.2	18.5	20.6	0.0
	Avg	83.2	29.3	20.1	22.6	0.0
Behind admin area	Max	74.5	26.3	21.0	23.8	0.0
	Min	66.8	21.4	17.3	20.1	0.0
	Avg	71.0	23.2	18.8	21.5	0.0
At All Location	Max	87.1	31.6	24.2	26.3	0.0
	Min	66.8	20.8	14.4	17.0	0.0
	Avg	76.9	26.2	18.9	21.8	0.0

Other parameter (ozone, Co, Lead, Benzene, BAP, Nichel, and Arsenic) checked monthly --results of all samples are **BDL,**
All Parameters are well within the permissible limit.
Report for the Month of Sep-23 is attached as **Annexure - 9**

S. No	Points	Compliance Status
4.	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G. S. R. 608 (E) date21/07/2010 and amended from time to time shall be followed.	Complied Monitoring started for all 12 parameters as per National Emission Industry issued by the ministry vide G.S.R. 608 (E) dated 21/07/2010. Report for the Month of Sept-23 is attached as **Annexure - 9**
5.	Unit shall .have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance & consistence with the same.	Complied All the parameter of discharge pollutant are within the specific limit. Last three month effluent discharge analysis data is attached as **Annexure -1.**
6.	The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.	Complied • Compliance of Consent to Operate issued by GPCB CTO No. AWH-123845 issue dated 16.01.2023 is given as **Annexure 19**
7.	The PP shall develop green belt [31454.91 Sq. m (22.30%) within premises + 35622 Sq. m (26%)- Total 67076 Sq m i.e. 48.30 % of the total plot area] as committed before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.	Complied Total plot area is 136180.6 sq.mt. Required green belt area to be developed inside and outside is 44939.89 sq. mt. We have planted 2059 trees inside the plant and taken GIDC plot for the development of green belt. We have planted 7192 trees this year in this plot. The schedule of tree plantation for the three years is followed. Photographs of the plantation is attached as below.  East side of Plot

S. No	Points	Compliance Status
		 South Side of Plot  In front of admin building  GIDC plot Site layout map is attached as ***Annexure* 36.**
	<u>Safety & Health:</u>	
8.	a) PP shall obtain PESO permission for the storage and handling of hazardous chemicals. b) PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U. c) PP shall obtain fire safety certificate / Fire No-Objection certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016. d) Unit shall adopt functional operations/process automation system including emergency	Complied a)**We have obtained PESO certificate for the storage & handling of hazardous chemicals for Methanol & Ammonia attached as Annexure-46**

S. No	Points	Compliance Status
	response to eliminate risk associated with the hazardous processes. e) PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident. f) PP shall install adequate fire hydrant system with foam trolley attachment within premises and separate storage of water for the same shall be ensured by PP. g) PP shall take all the necessary steps for control of storage hazards within premises ensuring incompatibility of storage raw material and ensure the storage keeping safe distance as per the prevailing guidelines of the concerned authority. h) PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or labor within premises. i) Flame proof electrical fittings shall be provided in the plant premises, wherever applicable. j) Unit shall never store drum/barrels/carboys of incompatible material/chemical together.	**b) We have provided a well-equipped OHC as per the provisions under the Gujarat Factories Rule 68-**  c) Fire NOC is not applicable for Industry d) Plant operated by centrally controlled PLC-SCADA system & Eng.-control provided. To eliminate the associates for process hazards. e) Mock drill is carried out quarterly. Last mock drill done on dated: 30-09-2023 & for that photos are attached as below, 

S. No	Points	Compliance Status
		   f) We have installed dedicated fire hydrant system * sprinkler system Also separate water storage for fire hydrant & sprinkler system. Foam flooding system provided at required area also foam trolley provided at various place. Photos are below

S. No	Points	Compliance Status
		  g) We have Provided interlock, PSV, Excess flow valve gas detectors, Fire hydrant & sprinkler system & PPES for taking care of storage hazards. We have provided fire wall between two storages at SMPV area also provided adequate space between the plant & storages. h) Required PPE's are provided to employees & workers at site as per their work i) We have provided flame proof fitting at all plant areas. j) We never store drum/barrels/carboys of incompatible material/chemical together. We have provided dedicated storage facility for carboys/barrels/drums

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td>A-2 WATER:</td><td></td></tr>
<tr><td>9.</td><td>Total water requirement for the project shall not exceed 1583.50 KLD. Unit shall reuse 91.50 KLD of treated requirement shall not exceed 1492 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority shall be obtained from concerned authority for withdrawal of water.</td><td>Complied
• 71.5 KLD water from Amine Hydrochloride plant recycled in CT. Remaining is coming from STP which is being used for gardening to the extent available.
• Details of actual average water consumption from (Jun-2023to Nov -2023) is given below:
<table>
<tr><th rowspan="2">S. No</th><th rowspan="2">Month of 2023-24</th><th colspan="2">Water consumption in KLD</th><th rowspan="2">Actual water Consumption in KLD</th></tr>
<tr><th>Permitted as per EC</th><th>Permitted as per CCA</th></tr>
<tr><td>1</td><td>Jun-23</td><td rowspan="8">994</td><td rowspan="8">1070.5</td><td>822.10</td></tr>
<tr><td>2</td><td>Jul-23</td><td>662.90</td></tr>
<tr><td>3</td><td>Aug-23</td><td>836.60</td></tr>
<tr><td>4</td><td>Sep-23</td><td>887.30</td></tr>
<tr><td>5</td><td>Oct-23</td><td>665.22</td></tr>
<tr><td>6</td><td>Nov-23</td><td>631.40</td></tr>
<tr><td></td><td>Min</td><td>631.40</td></tr>
<tr><td></td><td>Max.</td><td>887.30</td></tr>
<tr><td></td><td>Avg.</td><td>750.92</td></tr>
</table></td></tr>
<tr><td>10.</td><td>The industrial effluent generation from the project shall not exceed 588KLD.</td><td>Complied
• Actual Industrial wastewater generation is average 195.4 KLD for the period of (Jun-2023to Nov -2023), which is within the permissible limit – 213.7 KLD as per CCA No. AWH-123845 dated 16/01/2023, Valid up to 30/11/2027. attached as annexure - 19.
• Detail of actual average wastewater generation from (Jun-2023 to Nov -2023) is given below:
<table>
<tr><th rowspan="2">S. No</th><th rowspan="2">Month of 2023-24</th><th colspan="2">Wastewater generation in KLD</th><th colspan="3">Actual Wastewater generation in KLD</th></tr>
<tr><th>Permitted as per EC</th><th>Permitted as per CCA</th><th>Min</th><th>Max</th><th>Avg.</th></tr>
<tr><td>1</td><td>Jun-23</td><td rowspan="8">588</td><td rowspan="8">213.7</td><td>50</td><td>200</td><td>180.7</td></tr>
<tr><td>2</td><td>Jul-23</td><td>100</td><td>210</td><td>193.0</td></tr>
<tr><td>3</td><td>Aug-23</td><td>205</td><td>210</td><td>208.9</td></tr>
<tr><td>4</td><td>Sep-23</td><td>208</td><td>210</td><td>209.4</td></tr>
<tr><td>5</td><td>Oct-23</td><td>199</td><td>210</td><td>208.5</td></tr>
<tr><td>6</td><td>Nov-23</td><td>0</td><td>210</td><td>171.9</td></tr>
<tr><td></td><td>Min</td><td>0</td><td>200</td><td>171.9</td></tr>
<tr><td></td><td>Max.</td><td>208</td><td>210</td><td>209.4</td></tr>
<tr><td></td><td>Avg.</td><td>127</td><td>208</td><td>195.4</td></tr>
</table>
• Hence, the total industrial wastewater generation is within limit.</td></tr>
</table>

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td>11.</td><td>588 KLD total industrial effluent shall be treated in ETP consists of primary, secondary & tertiary treatment units and shall be sent to GIDC drainage for deep sea disposal.</td><td>
Complied
Entire quantity of waste water (195.4 KLD) is treated in ETP (200 KLD) as per current CCA.

Actual Industrial wastewater generation is average 195.4 KLD for the period of (Jun-2023 to Nov -2023), which is within the permissible limit – 213.7 KLD as per Month of Sept-23 is attached as Annexure - 9annexure -19
Detail of actual average wastewater generation from (Jun-2023 to Nov -2023) is given below:

<table>
<tr><th rowspan="2">S. No</th><th rowspan="2">Month of 2023-24</th><th colspan="2">Wastewater generation in KLD</th><th colspan="3">Actual Wastewater generation in KLD</th></tr>
<tr><th>Permitted as per EC</th><th>Permitted as per CCA</th><th>Min</th><th>Max</th><th>Avg.</th></tr>
<tr><td>1</td><td>Jun-23</td><td rowspan="7">588</td><td rowspan="7">330.7</td><td>50</td><td>200</td><td>180.7</td></tr>
<tr><td>2</td><td>Jul-23</td><td>100</td><td>210</td><td>193.0</td></tr>
<tr><td>3</td><td>Aug-23</td><td>205</td><td>210</td><td>208.9</td></tr>
<tr><td>4</td><td>Sep-23</td><td>208</td><td>210</td><td>209.4</td></tr>
<tr><td>5</td><td>Oct-23</td><td>199</td><td>210</td><td>208.5</td></tr>
<tr><td>6</td><td>Nov-23</td><td>0</td><td>210</td><td>171.9</td></tr>
<tr><td></td><td>Min</td><td>0</td><td>200</td><td>171.9</td></tr>
<tr><td></td><td>Max.</td><td>208</td><td>210</td><td>209.4</td></tr>
<tr><td></td><td>Avg.</td><td>127</td><td>208</td><td>195.4</td></tr>
</table>

Hence, the total industrial wastewater generation is within limit.
The Process effluent treated in ETP comprises of Primary, Secondary & Tertiary treatment facility at site.
Description of ETP is provided in

Annexure 20

Characteristics of treated effluent for the Month (Jun-2023 to Nov -2023) is given as below:
<table>
<tr><th>Parameters</th><th>Units</th><th>Permissible Limit (As per CCA No. AWH 91871 dated 20/03/2018)</th><th>Min</th><th>Max</th><th>Avg</th></tr>
<tr><td>pH</td><td></td><td>06-09</td><td>7.4</td><td>8.1</td><td>7.8</td></tr>
<tr><td>Temperature</td><td>°C</td><td>Shall not exceed more than 50°C above ambient water temperature</td><td>29.0</td><td>31.0</td><td>29.9</td></tr>
<tr><td>TKN</td><td>mg/L</td><td>50</td><td>4.0</td><td>41.2</td><td>12.1</td></tr>
<tr><td>Suspended Solids</td><td>mg/L</td><td>100</td><td>6.0</td><td>14.0</td><td>8.8</td></tr>
<tr><td>Vanadium</td><td>mg/L</td><td>0.2</td><td>BDL(MDL:0.1)</td><td>BDL(MDL:0.1)</td><td>BDL(MDL:0.1)</td></tr>
</table>
</td></tr>
</table>

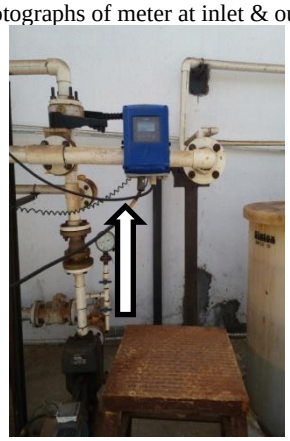
<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>Oil &Grease</td><td>mg/ L</td><td>10</td><td>BDL(MDL :2.0)</td><td>BDL(MDL: 2.0)</td><td>BDL(MD L:2.0)</td></tr>
<tr><td>Phenolic Compound</td><td>mg/ L</td><td>5</td><td>BDL(MDL :0.1)</td><td>BDL(MDL: 0.1)</td><td>BDL(MD L:0.1)</td></tr>
<tr><td>Cyanide</td><td>mg/ L</td><td>0.2</td><td>BDL(MDL :0.05)</td><td>BDL(MDL: 0.05)</td><td>BDL(MD L:0.05)</td></tr>
<tr><td>Fluoride</td><td>mg/ L</td><td>15</td><td>0.2</td><td>0.8</td><td>0.4</td></tr>
<tr><td>Sulphide</td><td>mg/ L</td><td>5</td><td>BDL(MDL :0.05)</td><td>BDL(MDL: 0.05)</td><td>BDL(MD L:0.05)</td></tr>
<tr><td>Ammonical Nitrogen</td><td>mg/ L</td><td>50</td><td>3.0</td><td>35.5</td><td>14.7</td></tr>
<tr><td>Nitrate Nitrogen</td><td>mg/ L</td><td>50</td><td>0.7</td><td>2.1</td><td>1.2</td></tr>
<tr><td>Residual Chlorine</td><td>mg/ L</td><td>1</td><td>BDL(MDL :0.1)</td><td>BDL(MDL: 0.1)</td><td>BDL(MD L:0.1)</td></tr>
<tr><td>Arsenic</td><td>mg/ L</td><td>0.2</td><td>BDL(MDL :0.01)</td><td>BDL(MDL: 0.01)</td><td>BDL(MD L:0.01)</td></tr>
<tr><td>Total Chromium</td><td>mg/ L</td><td>2</td><td>BDL(MDL :0.05)</td><td>BDL(MDL: 0.05)</td><td>BDL(MD L:0.05)</td></tr>
<tr><td>Hexavalent Chromium</td><td>mg/ L</td><td>0.1</td><td>BDL(MDL :0.05)</td><td>BDL(MDL: 0.05)</td><td>BDL(MD L:0.05)</td></tr>
<tr><td>Copper</td><td>mg/ L</td><td>3</td><td>0.057</td><td>0.52</td><td>0.11</td></tr>
<tr><td>Mercury</td><td>mg/ L</td><td>0.01</td><td>BDL(MDL :0.001)</td><td>BDL(MDL: 0.001)</td><td>BDL(MD L:0.001)</td></tr>
<tr><td>Lead</td><td>mg/ L</td><td>0.1</td><td>BDL(MDL :0.01)</td><td>BDL(MDL: 0.01)</td><td>BDL(MD L:0.01)</td></tr>
<tr><td>Nickel</td><td>mg/ L</td><td>3</td><td>0.1</td><td>0.1</td><td>0.1</td></tr>
<tr><td>Zinc</td><td>mg/ L</td><td>15</td><td>0.1</td><td>0.1</td><td>0.1</td></tr>
<tr><td>Cadmium</td><td>mg/ L</td><td>0.05</td><td>BDL(MDL :0.003)</td><td>BDL(MDL: 0.003)</td><td>BDL(MD L:0.003)</td></tr>
<tr><td>COD</td><td>mg/ L</td><td>250</td><td>21</td><td>48.5</td><td>33.0167</td></tr>
<tr><td>BOD</td><td>mg/ L</td><td>100</td><td>7</td><td>73.8</td><td>25.0</td></tr>
<tr><td>Selenium</td><td>mg/ L</td><td>0.05</td><td>BDL(MDL :0.1)</td><td>BDL(MDL: 0.1)</td><td>BDL(MD L:0.1)</td></tr>
<tr><td>Manganese</td><td>mg/ L</td><td>2</td><td>BDL(MDL :0.1)</td><td>BDL(MDL: 0.1)</td><td>BDL(MD L:0.1)</td></tr>
<tr><td>Iron</td><td>mg/ L</td><td>3</td><td>0.2</td><td>0.3</td><td>0.3</td></tr>
<tr><td>Bio-Assay Test</td><td>mg/ L</td><td>90% survival of fly ash after 96 hrs. in 100% concentration</td><td>90 % survival of fish after 96 hrs. in 100 % Effluent</td><td>90 % survival of fish after 96 hrs. in 100 % Effluent</td><td>90 % survival of fish after 96 hrs. in 100 % Effluent</td></tr>
</table>
Hence, all parameters are well within the permissible limit as per CCA No. AWH-123845 dated 16/01/2023 annexure -19.
</td></tr>
<tr><td>12.</td><td>Treated waste water shall be sent to GIDC drainage only after complying with the inlet norms of common facilities prescribed</td><td>Complied</td></tr>
</table>

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td>by GPCB to ensure no adverse impact on Human Health and Environment.</td><td>

Monthly wastewater analysis is carried out by third party monitoring. It is done by M/s. Unistar Environment and Research labs Pvt.ltd It is MoF&CC approved and NABL accredited laboratory (Certificate no. TC-7753 dated 23/09/2020 & valid till 22/09/2022).Attached as Annexure-1.
Unit has achieved the GPCB norms at the final outlet and after confirming the GPCB norms it is disposed into GIDC drain for Sea disposal.

Unit has the permission letter from GIDC for effluent disposal having quantity 508 KLD vide letter no. GIDC/DEE (Drg)/BhH/212 dated 02.07.2020 attached as Annexure-5.

Percentage reduction in ETP is given in Table 3 of Annexure.
Photographs of meter at inlet & outlet of ETP is given as below:



Meter at ETP Inlet Meter at ETP Outlet
The unit is also provided on line pH meter and TOC meter for online monitoring of the treated effluent.

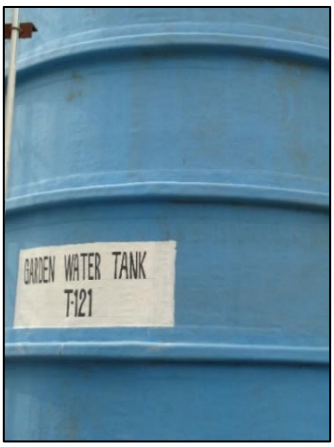

TOC meter

</td></tr>
<tr><td>13.</td><td>Domestic wastewater generation shall not exceed 20 KL/day for proposed project and it shall be treated in STP. It shall not be disposed off through soak pit/ septic tank. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.</td><td>
Complied

Domestic waste water (20 KL/day) is treated in STP.
Details of STP having capacity of 20 KLD is given in

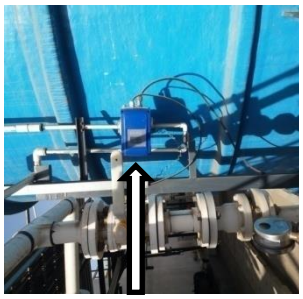
Annexure 22.
Characteristics of treated domestic effluent for the months of (Jun-2023 to Nov -2023) is given below:

<table>
<tr><th>Parameters</th><th>Permissible limit</th><th>Min</th><th>Max</th><th>Avg.</th></tr>
<tr><td>pH</td><td>6.5 to 9.0</td><td>7.1</td><td>7.5</td><td>7.3</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>Total Suspended Solids</td><td><50 mg/l</td><td>4.0</td><td>26</td><td>19.7</td></tr>
<tr><td>Fecal Coliform (Most probable number per 100 milliliter, MPN/100ml)</td><td><1000</td><td>20.0</td><td>32</td><td>27.0</td></tr>
<tr><td>BOD (5 days at 20°C)</td><td>20 mg/l</td><td>4.0</td><td>18</td><td>12.3</td></tr>
</table>
Hence, all parameters are well within the permissible limits per CCA No. AWH-123845 dated 16/01/2023
Monthly wastewater analysis is carried out by third party monitoring. It is done by M/s. Unistar Environment and Research labs Pvt.ltd It is MoEF&CC approved and NABL accredited laboratory (Certificate no. TC-77753 dated 23/09/2020 & valid till 22/09/2022). After confirming to the norms prescribed by GPCB, treated wastewater is recycled Gardening Development within premises only.
</td></tr>
<tr><td>14.</td><td>During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.</td><td>
Complied
During monsoon season when treated effluent may not be required for the gardening purpose, it will be stored in Buffer water storage tank of 60 KLD capacity which is already installed at site.


There will be no discharge of waste water outside the premises in any case as the treated effluent from ETP will disposed into GIDC drain for Sea disposal having permission letter from GIDC vide letter no. GIDC/DEE (Drg)/BRH/212 dated 02.07.2020 attached as Annexure-5 and treated wastewater from STP is recycled Gardening Development within premises only.
</td></tr>
<tr><td>15</td><td>Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.</td><td>
Complied
Buffer treated effluent water storage tank of 350 KLD & 650 KLD capacity are installed at site

650 KL
There will be no discharge of waste water outside the premises. In any case as the treated effluent from ETP will disposed into GIDC drain for Sea disposal having permission letter from GIDC vide letter no. GIDC/DEE (Drg)/BRH/212 dated 02.07.2020 attached as Annexure-5.
</td></tr>
</table>

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>16</td><td>The unit shall provide metering facility at the inlet and outlet of ETP& STP and maintain records for the same.</td><td>Complied
Unit has installed calibrated flow meter on the inlet & outlet of ETP & STP pipeline and daily record is maintained as per attached as Annexure 8.
Photographs of meter at inlet & outlet of ETP & STP is given as below:
 
Meter at ETP Inlet
 
Meter at ETP Outlet
 
Meter at STP Inlet
 
Meter at STP Outlet</td></tr>
<tr><td>17</td><td>Proper logbooks of ETP& STP: recycle/ reuse of treated/ untreated effluent; chemical consumption ìn effluent treatment; quantity & quality of treated effluent: power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.</td><td>Complied
• ETP & STP operation Logbook is maintained with all required details like showing chemicals consumed, treated water reused, power consumed etc.

<table>
<tr><th colspan="5">ETP Inlet parameters Reading</th></tr>
<tr><th>Parameters</th><th>UNIT</th><th>Max</th><th>Min</th><th>Avg</th></tr>
<tr><td>pH</td><td>-</td><td>11.71</td><td>2.24</td><td>7.19</td></tr>
<tr><td>Total Suspended Solids</td><td>mg/L</td><td>52.00</td><td>10.00</td><td>31.00</td></tr>
<tr><td>COD</td><td>mg/L</td><td>357.00</td><td>40.00</td><td>211.38</td></tr>
<tr><td>BOD</td><td>mg/L</td><td>629.60</td><td>96.00</td><td>352.68</td></tr>
</table>
<table>
<tr><th colspan="5">ETP Outlet Parameters Reading</th></tr>
<tr><th>Parameters</th><th>UNIT</th><th>Max</th><th>Min</th><th>Avg</th></tr>
<tr><td>pH</td><td>-</td><td>8.1</td><td>7.4</td><td>7.8</td></tr>
<tr><td>Total Suspended Solids</td><td>mg/L</td><td>14.0</td><td>6.0</td><td>8.8</td></tr>
<tr><td>COD</td><td>mg/L</td><td>48.5</td><td>21.0</td><td>33.0</td></tr>
<tr><td>BOD</td><td>mg/L</td><td>73.8</td><td>7.0</td><td>21.1</td></tr>
</table>
<table>
<tr><th colspan="5">STP Outlet Parameters Reading</th></tr>
<tr><th>Parameters</th><th>UNIT</th><th>Max</th><th>Min</th><th>Avg.</th></tr>
</table></td></tr>
</table>

S. No	Points	Compliance Status

pH	-	7.5	7.1	7.3
Total Suspended Solids	mg/l	26.0	4.0	19.7
BOD	mg/L	18.0	4.0	12.3

RO inlet Parameters Reading				
Parameters	**UNIT**	**Max**	**Min**	**Avg.**
pH	-	7.9	2.4	6.1
TDS	ppm	1960	305.0	1052

RO Outlet Parameters Reading				
Parameters	**UNIT**	**Max**	**Min**	**Avg.**
pH	-	7.6	1.6	5.59
TDS	ppm	920.2	95.8	460.96

Power consumption of (Jun-2023 to Nov -2023)
ETP/STP Power consumption in KW

Month	Monthly Avg.	Monthly Min	Monthly Max
Jun-23	1072	845	1237
Jul-23	1148	1008	1265
Aug-23	1160	884	1320
Sep-23	1166	1044	1303
Oct-23	1079	962	1317
Nov-23	1036	808	1128

- Details of ETP & STP are given in

  Annexure **20 &** ***Annexure 22*** respectively.
- Copy of logbook is given as ***Annexure*** 8
- Electricity bill & power consumed of Sept month is attached as ***Annexure* 23**
- Log sheet of chemical consumption is provided in ***Annexure* 24**

A-3 AIR:

18 Unit shall not exceed fuel consumption for boilers, TFHs and D G Sets as mentioned below:

SR NO.	Source emissions with	Stack height(meter)	Types of fuel	Quantity of fuel Kg/Hr	Type of emissions i.e. air	Air pollution control
1.	Boiler-1 (30 MT/Hr.	70	Coal	10900 Kg/Hr		ESP + Venturi Scrubber

Complied

Fuel consumption is well within the stipulated limit. Refer below fuel consumption data.

Sr. No.	Source of emission with	Stack Height	Type of Fuel	Fuel Consumption					
				Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
1	Boiler – 1	70	Coal	5480.52	4622.14	6148.96	6579.17	3079.05	4180.

S. No	Points	Compliance Status

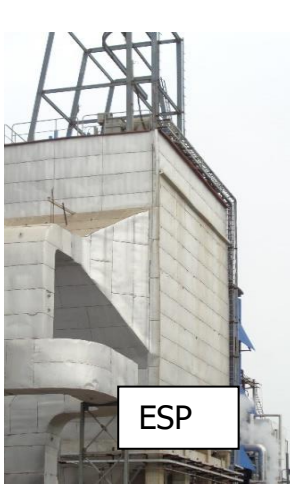
Points

2.	Boiler-2 (30 MT/Hr.	70	Coal	10900 Kg/Hr		ESP + Venturi Scrubber
3.	Thermic fluid Heater -1	37	LDO	230 Kg/Hr		Adequate Stack Height
4.	Thermic fluid Heater -2	37	LDO	230 Kg/Hr		Adequate Stack Height
5.	D.G.set-1(1000 KVA)	16	HSD	208 ltr/Hr		Adequate Stack Height
6.	D.G.set-2(1000 KVA)	16	HSD	208 ltr/Hr		Adequate Stack Height

Compliance Status

	(30 MT/Hr)								
2	Boiler – 2 (30 MT/Hr)	70	Coal	Above qty is for both Boiler					
3	Thermic Fluid Heater – 1 (20 Lacs Kcal/Hr)	37	Furnace Oil	**86.183**	**39.998**	**101.787**	**120.41**	**13.572**	**60.239**
4	Thermic Fluid Heater – 2 (20 Lacs Kcal/Hr)	37	Furnace Oil	Presently Not Available					
5	D. G. Set (1000 KVA)	16	HSD	**455 Lit**	**365 Lit**	**125 Lit**	**3295 Lit**	**160**	**3000**

•

19	Unit shall provide adequate APCM with flue gas generation sources as mentioned above:	Complied • Unit has provided venture scrubber and ESP as APCM for control of Sox & PM. • Detail description of Water scrubber is given as **Annexure -11** • Photographs of ESP& Venture Scrubber are given as :   • All parameters are well within the permissible limit.

S. No	Points	Compliance Status
20	Unit shall provide adequate APCM with process gas generation sources as mentioned below:	Complied

SR NO.	Specific source of emission (name of the product & process	**Type of emission**	**Stack/ vent height (meter)**	Air pollution control measures (APCM)
1.	Storage tank Scrubber	Ammonia, Total Amines	11	Water scrubber
2.	Methylamines plant scrubber	Ammonia, Total Amines	15	Water scrubber
3.	DMAPA/ Tertiary amines	Ammonia	15	Water scrubber

Sr. No.	Sampling Location	Pollutants	Permissible Limit as per CPCB Norms (as per consent no. AWH 91871 dated 20/3/2018	Min	Max	Avg
1	Storage tank Scrubber	Ammonia (NH_3)	175 mg/m^3	BDL	BDL	BDL
2	Methylamines plant scrubber		175 mg/m^3	BDL	BDL	BDL
3	HCL storage tank scrubber	HCL	20 mg/m^3	6.6	8.6	7.38
4	HCL Day tank scrubber	HCL	20 mg/m^3	6.6	10.4	7.98
5	Acetic acid storage tank	Acid Fumes	--	3.8	5.2	4.45
6	Acetonitrile Plant Scrubber	Ammonia		BDL	BDL	BDL

- Unit has provided water scrubber as APCM with Storage tank scrubber for control of Ammonia & total amines.
- CCA is obtained for Methylamines , DMAHCL and ACTN plant.
- Detail description of Water scrubber is given as **Annexure -11**
- Results of 6 months (Jun-2023 to Nov -2023) for storage tank scrubber &Methylamines plant scrubber are as given below:

All parameters are well within the permissible limit.

S. No	Points	Compliance Status

	plant scrubber			
4.	Acetonitrile plant scrubber	Ammonia	15	Water scrubber
5.	Dimethyl acitate plant scrubber	Ammonia	15	Water scrubber
6.	Choline chloride Plant scrubber	Ammonia	15	Water scrubber
7.	Alkolamines plant scrubber	Ammonia , amines	15	Water scrubber
8.	PSV absorber	Ammonia , amines	15	Water scrubber
9.	HCL storage tank scrubber	Hydrochloric acid fumes	15	Water scrubber
10.	HCL Day tank scrubber	Hydrochloric acid fumes	15	Water scrubber
11.	PSV absorber-Acetonitrile plant	Ammonia , amines	20	Water scrubber
12.	Acetonitrile plant scrubber	Ammonia , amines	20	Water seal pot
13.	Acetic acid storage tank	Acetic acid	11	Water scrubber

21

The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribedby the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shallalso be followed to reduce the fugitive emission.

» Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicularmovement.

» Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.

» A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transportdust emission.

Complied

- Fugitive emission in the work zone environment is quarterly monitored and it is ensured that the standards prescribed by the concerned authority are met.
- Monitoring is carried out by third party. It is done M/s. Unistar Environment and Research labs Pvt.ltd It is MoEF&CC approved and NABL accredited laboratory (Certificate no. TC-7753 dated 23/09/2020 & valid till 22/09/2022). Analysis of 6 months (Jun-2023 to Nov-2023) report summary of work place monitoring results are given below:

Sampling Location	Range	Concentration of Identified contaminant (mg/m^3)	
		VOC	Total Dust
		NS	10 mg/m^3
Nr. Methyl amine plant	Max	BDL	1.4
	Min	BDL	1.1
	Avg	BDL	1.3
Near coal yard	Max	-	1.7
	Min	-	1.2
	Avg	-	1.4

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>Pressure safety valve release can be a fugitive emission but the probability of a Pressure Safety Valve release is extremely low. For this purpose, fully automatic pressure control system with alarms, different layers of protection including alarms and safety interlocks are installed.
Following measures are followed:
• Internal roads are paved properly to reduce the fugitive emission during vehicular movement.
• Water will be sprayed as per need for controlling air born dust.
A green belt is developed all around the plant boundary.</td></tr>
<tr><td>22</td><td>Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.</td><td>Complied
• Monitoring is carried out by third party. It is done by M/s. Unistar Environment and Research labs Pvt.ltd it is MoEF&CC approved and NABL accredited laboratory (Certificate no. TC-7753 dated 23/09/2020 & valid till 22/09/2022). Analysis of 6 months (Jun-2023 to Nov-2023) report summary of work place monitoring results are given below:
<table><tr><th rowspan="3">Sampling Location</th><th rowspan="3">Range</th><th colspan="2">Concentration of Identified contaminant (mg/m^3)</th></tr><tr><th>VOC</th><th>Total Dust</th></tr><tr><th>NS</th><th>10 mg/m^3</th></tr><tr><td rowspan="3">Nr. Methyl amine plant</td><td>Max</td><td>1.4</td><td>-</td></tr><tr><td>Min</td><td>1.1</td><td>-</td></tr><tr><td>Avg</td><td>1.3</td><td>-</td></tr><tr><td rowspan="3">Near coal yard</td><td>Max</td><td>-</td><td>1.7</td></tr><tr><td>Min</td><td>-</td><td>1.2</td></tr><tr><td>Avg</td><td>-</td><td>1.4</td></tr><tr><td rowspan="3">Nr. DMAHCL</td><td>Max</td><td>2.3</td><td>-</td></tr><tr><td>Min</td><td>1.3</td><td>-</td></tr><tr><td>Avg</td><td>1.84</td><td>-</td></tr></table>For DMAHCL considering the IH monitoring data.</td></tr>
<tr><td>23</td><td>Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, NH3, amines, total amines, HCI, acetic acid and VOCs shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed thestandards stipulated by the GPCR. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.</td><td>Complied

Ambient air monitoring locations were reviewed & identified stations are marked on the plant layout. Refer attached sampling stations on plan lay out. Annexure-43
• VOC analysis is carried out at the frequency of once in a month and Analysis of 6 months (Jun-2023 to Nov-2023) report summary of VOC monitoring results are given below:
<table><tr><th>Sr. No</th><th>Location</th><th>Parameter</th><th>Permissible Limits</th><th>Jun-23</th><th>Jul-23</th><th>Aug-23</th><th>Sep-23</th><th>Oct-23</th><th>Nov-23</th></tr><tr><td>1</td><td>Nr. Methylamin</td><td>Total Dust</td><td>10 mg/m^3</td><td>1.7</td><td>2.1</td><td>-</td><td>1.7</td><td>1.4</td><td>2.1</td></tr></table></td></tr>
</table>

S. No	Points	Compliance Status

2	Nr. Methylamin	VOC	**	BDL	BDL	BDL	1.4	1.1	1.4	
3	Near Coal Yard	Total Dust	2 mg/ m^3	1.7	1.3	-	1.4	1.2	1.4	

A.4 SOLID / HAZARDOUS WASTE :

24 All the hazardous/ solid waste management shall be taken care as mentioned below:

Sr.	1.	2.	3.	4.	5.	6.	7.
Type/Name of Hazardous waste	Spent Carbon	Distillation Residue	Spent Organic Solvent	Used / spent oil	Discarded containers/ barrels/ liners	ETP Sludge	Spent Catalyst
Specific Source	ETP Carbon bed	From y amine,	N-OctylPyrrolid	Various process plants	Various process plants	ETP	3.3 MT
Categoryand Scheduleas per HW	36.2	20.3	20.2	5.1	33.1	35.3	28.2
Existing	2	2157	760	5	100	50	6.6
Quantity MT/Annum)	1	655	0	1	20	20	0
Total	3	2812	760	6	120	70	6.6
Management ofHW	Collection storage and disposal for land filling	Collection storage and disposal for incineration to	Collectio n " Storage and disposal by	Collection, Storage, reusein plant and	Collection, Storage, reuse in plant or sell to	collection Storage and disposal for landfilling	Collection storage and disposal by sell out to

Complied

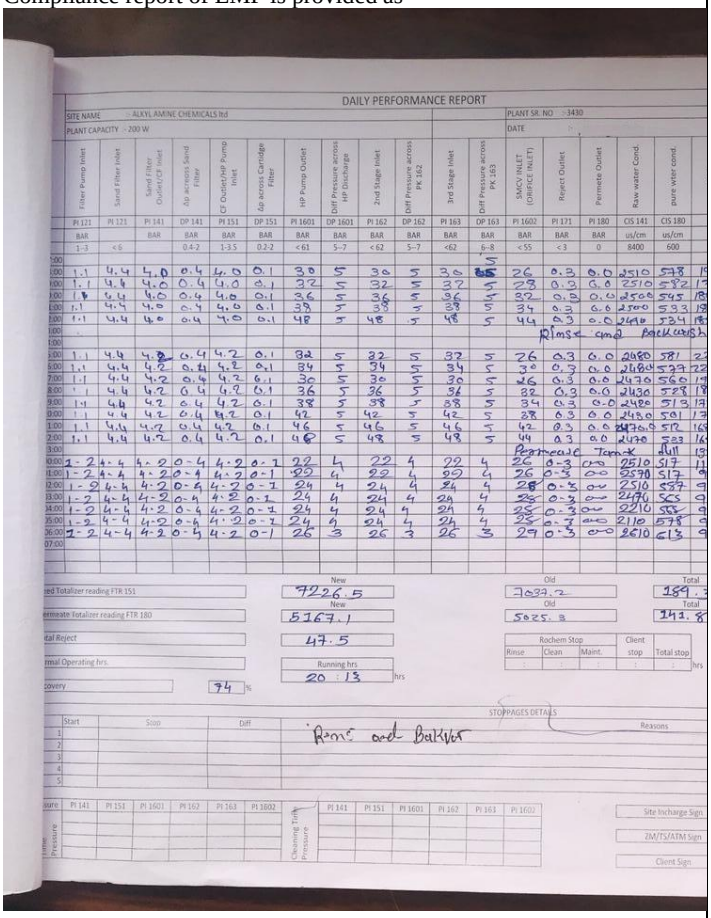
Hazardous waste management:

Sr. no.	1	2	3	4	5	6	7	8
Type/Name of	Spent Carbon	Distillation Residue	Used/Spent Oil	Discarded containers/	ETP Sludge	Spent Catalyst	Wastes/Residues	Exhaust Air or Gas
Specific Source of generation	ETP Carbon bed	From, Acetonitrile, sodium Acetate &	Various process plants	Various process plants	ETP	19.8 MT From production of Tertiaryamine		
Category	36.2	20.3	5.1	33.1	35.3	28.2	5.2	Sch-135.1
Quantity (MT/year)	2	24	2	15	25	2.4	-	0
	2	24	2	15	25	2.4	1	2500
Management of HW	Collection, Storage , Transportation and disposal by incineration	Collection, Storage , Transportation and disposal by incineration	Collection, Storage, Reuse, Transportation and	Collection, Storage, decontaminati on,	Collection, Storage, Transportation and disposal at	Collection, Storage, Transportation and disposal at	Collection, Storage, Transportation and disposal by	Collection, Storage, Transportation and disposal at approved

S. No	Points	Compliance Status
	8. Spent Catalyst From productio 28.2 2.4 MT 0 collection Storage and disposal for landfilling 9. Spent Catalyst From Acetoni 28.2 16.83 0 16.83 collection Storage and disposal for landfilling 10. Wastes/Residues containin Various processplants 5.2 0 2 2 collection Storage and disposal for incineration to 11. Spent resin from water Water treatmentplant 35.2 0 10 10 collection Storage and disposal for incineration to 12. Exhaust air gas cleaning residue Lime scrubber attached to 35.1 0 5000 5000 collection Storage and disposal for landfilling at	
25	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.	MOU attached as **Annexure -48.**
26	Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of Incinerable & land fillable wastes before sending to CHWIF & TSDF sites respectively.	Complied We have explore the possibities and started to send waste as prep-processing. Member ship of BEIL(Bharuch Enviro Infrastructure Ltd) attached as Annexure-**26**

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td>27</td><td>The unit shall submit the list of authorized end users of hazardous wastes along with MoU signed with them at least two months in advance prior to the commencement of production. In the absence of potential buyers of these items, the unit shall restrict the production of the respective items.</td><td>Complied

MOU attached as Annexure -48</td></tr>
<tr><td></td><td>A-5. OTHER :</td><td></td></tr>
<tr><td>28</td><td>The project proponent shall allocate the separate fund of Rs. 70 Lakhs as committed before SEAC. The entire activities proposed under CER shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22- 65/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.</td><td>CER 2021-2024
<table>
<tr><th>Project Title</th><th>Location</th><th>Project - Description</th><th>Amount - (Rs.In Lakhs)</th></tr>
<tr><td>Rural Development</td><td>Dahej - Vav, Vadadala and Galenda</td><td>Roof Rain water Harvesting - We planning to carry out around 100 RRWH Projects.</td><td>30</td></tr>
<tr><td>Environment</td><td>Dahej - Vav, Vadadala, Sabhethi, Samatpor, Galenda</td><td>Lake Desilting - in villages like Dahej - Vav, Vadadala, Sabhethi, S amatpor and Galenda. Its estimated to desilt around 30000 cubic meter.</td><td>20</td></tr>
<tr><td>Rural Development</td><td>Dahej - Samiti, Jolwa and Galenda</td><td>50KL overhead water tank to be constructed at Sabhethi Village. Over 1000 people will be benefited from this project</td><td>20</td></tr>
<tr><td colspan="3">Total</td><td>70</td></tr>
</table></td></tr>
<tr><td>29</td><td>All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s Kadam Environment Consultants and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.</td><td>Complied
We hereby assure that the proposed protection measures and safeguards, mentioned in the EIA report will be followed in letter and spirit.</td></tr>
</table>

S. No	Points	Compliance Status
		Compliance report of EMP is provided as  Annexure-**25**
B.GENERAL CONDITIONS:		
B.1 CONSTUCTION PHASE :		
30	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best constructionpractices.	Complied Unit is follow the guidelines.
31	Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in	Complied

S. No	Points	Compliance Status
	vulnerable areas for controllingfugitive emission.	Isolation of under construction area is carried out. Fugitive emission during construction phase is being controlled by covering construction materials during transportation and regular water sprinkling.
32	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	Complied The sanitary and hygiene measures are provided from the starting of the construction phase and will continue till the sanitary constructions are operational. During construction phase clean drinking water, regular cleaning of work place & toilets & bathrooms as well as drain sock pits, disposal of waste in time, clean floors, providing healthy food to the employee in the cafeteria, washing facilities etc. activity doing for sanitary and hygiene.
33	First Aid Box shall be made readily available in adequate quantity at all the times.	Complied • 10 nos. First Aid Boxes are provided and kept at various locations under supervision. • Location: o Main gate o Material gate o ECC room o QC lab o Control room o DMAHCL control room o Work-shop o Boiler o ETP  At Main Gate
34	The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.	Complied The clauses of Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1989, and Gujarat rules made there under, and their subsequent amendments & Local bye- laws of concerned authority are being followed in letter and spirit in the construction site.
35	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.	Complied Now the results are well within the limit. Refer attached data in **Annexure-45**
36	Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	Complied Noise level monitoring of DG Set is attached as below. Attached as **Annexure-45.**
37	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	Complied During construction phase only Wastewater from toilets were generated and it will carry with the portable toilet. It was disposed to soak pit. No any municipal solid wastes like canteen waste was generated during construction phase. Unit has used ready-mix concrete and cement blocks. Construction material such as concrete, stone, bricks, structural steel pieces which were used for the foundation of the

S. No	Points	Compliance Status
		process equipment, base of the road, water proofing of the roof and hence total construction waste was recycled and reused within premises
38	All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.	Complied The topsoil excavated during construction activity is used for greenbelt development within the project site.
39	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighboring communities.	Complied All the excavated earth during the construction phase was utilized within the premises only. Disposal of the excavated earth during construction phase will not create adverse effect on neighboring communities.
40	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete [RMC] and lead free paints in the project.	Complied We will explore the possibility to use the fly ash bricks fly ash paver blocks as and when required. We already use lead free paints in the project.
41	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	Complied Fly ash is stored in the Silo and given to the brick manufacturer. Mantra Paver & Cement Articles, Ankleshwar to use in the bricks as per fly ash notification. Refer attached Agreement (PO) & Invoice copy of sale as Annexure-50
42	"Wind — breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided Individual building within the project site shall also be provided with barricades.	Noted
43	"No uncovered vehicles carrying construction material and waste shall be permitted."	Noted
44	"No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be leftuncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."	Noted
B. 2 OPERATION PHASE		
B.2.1 WATER:		
45	Roads leading to or at construction site must be paved and blacktopped (i.e. — metallic roads).	Noted
46	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	Noted
47	Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.	Noted
48	Grinding and cutting of building materials in open area shall be prohibited.	

S. No	Points	Compliance Status
		Noted
49	Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	Noted
50	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measure . Notified at the site. (If applicable).	Noted
	B.2 OPERATION PHASE :	
	B.2.1 WATER :	
51	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	Complied • Water meter is installed in the incoming water line from GIDC. Photographs of water meter is below:  

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>

Daily detail of water consumption is maintained in register from calibrated water meter reading is attached as Annexure-3.
Actual water consumption is average 766.93 KLD for the period of (Jun-2023 to Nov-2023) which is within the permissible limit – 1070.5 KLD as per CCA No. AWH-123845 dated 16/01/2023 & valid up to 30/11/2027 attached as Annexure-19.

<table>
<tr><th rowspan="2">S. No</th><th rowspan="2">Description</th><th colspan="2">Water consumption in KLD</th></tr>
<tr><th>Permitted as per CCA</th><th>Actual (avg. Last 6 month)</th></tr>
<tr><td>1</td><td>Industrial</td><td>1016.5</td><td>723.03</td></tr>
<tr><td>2</td><td>Gardening</td><td>31</td><td>12.4</td></tr>
<tr><td></td><td>Domestic</td><td>23</td><td>4.6</td></tr>
<tr><td></td><td>Total</td><td>1070.5</td><td>740.07</td></tr>
<tr><td></td><td>Recycling</td><td>100</td><td>27.85</td></tr>
</table>

Details of actual average water consumption from (Jun-2023 to Nov-2023) is given below:

<table>
<tr><th rowspan="2">S. No</th><th rowspan="2">Month of 2023-24</th><th colspan="2">Water consumption in KLD</th><th rowspan="2">Actual water Consumption in KLD</th></tr>
<tr><th>Permitted as per EC</th><th>Permitted as per CCA</th></tr>
<tr><td>1</td><td>Jun-23</td><td rowspan="8">994</td><td rowspan="8">1070.5</td><td>822.10</td></tr>
<tr><td>2</td><td>Jul-23</td><td>662.90</td></tr>
<tr><td>3</td><td>Aug-23</td><td>836.60</td></tr>
<tr><td>4</td><td>Sep-23</td><td>887.30</td></tr>
<tr><td>5</td><td>Oct-23</td><td>665.22</td></tr>
<tr><td>6</td><td>Nov-23</td><td>631.40</td></tr>
<tr><td></td><td>Min</td><td>631.40</td></tr>
<tr><td></td><td>Max.</td><td>887.30</td></tr>
<tr><td></td><td>Avg.</td><td>750.92</td></tr>
</table>
Hence, Total water consumption is within the limit.
Fresh water consumption bill of OCT-23 is attached as Annexure-39.
</td></tr>
<tr><td>52</td><td>All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shallcontinuously strive to reduce, recycle and reuse the treated effluent.</td><td>Complied
We have already adopted best available technology to optimize water consumption.
We have provided ACHE unit for water conservation
We have provided steam condensate recovery system.
We are planning to use treated effluent water in Cooling tower for recycling, and provide STP plant by which we are recycling 17 KLD water for gardening.</td></tr>
<tr><td></td><td>B.2.2 AIR :</td><td></td></tr>
<tr><td>53</td><td>In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not beany adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it'sAPCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly</td><td>We don’t have any spray dryer system in the unit.</td></tr>
</table>

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td>compliance report.</td><td></td></tr>
<tr><td>54</td><td>Acoustic enclosure shall be provided to the DG sets (If applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.</td><td>Complied
Noise level monitoring report for DG is herewith attached as below Annexure-35.</td></tr>
<tr><td>55</td><td>Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.</td><td>Complied
Stacks/Vents (whichever is applicable) of adequate height are provided as per the prevailing norms for flue gas emission/Process gas emission:
Please find the below detail as given in CCA.
<table>
<tr><th>S. No.</th><th>Source of emission with Capacity</th><th>Stack Height (meter)</th><th>Type of Fuel</th><th>Quantity of fuel Kg/hr</th><th>Type of emissions i.e. Air Pollutants</th><th>Air pollution Control Measures (APCM)</th></tr>
<tr><td>1</td><td>Boiler – 1 (30 MT/Hr)</td><td>70</td><td>Coal</td><td>5450</td><td rowspan="5">PM, SO_2, NOx</td><td>ESP + Venturi Scrubber</td></tr>
<tr><td>2</td><td>Boiler – 2 (30 MT/Hr)</td><td>70</td><td>Coal</td><td>5450</td><td>ESP + Venturi Scrubber</td></tr>
<tr><td>3</td><td>Thermic Fluid Heater – 1 (20 Lacs</td><td>37</td><td>LDO</td><td>230</td><td rowspan="3">Adequate Stack Height</td></tr>
<tr><td>4</td><td>Thermic Fluid Heater – 2 (20 Lacs</td><td>37</td><td>LDO</td><td>230</td></tr>
<tr><td>4</td><td>D. G. Set (1000 KVA)</td><td>16</td><td>HSD</td><td>208 Lit/Hr</td></tr>
</table></td></tr>
<tr><td>56</td><td>Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.</td><td>Complied
The flue gas Emission monitoring analysis results for the 6 months (Jun-2023 to Nov-2023) are shown below:
<table>
<tr><th rowspan="3">Sampling Location</th><th rowspan="3">Range</th><th colspan="3">Parameters monitored as per SPCB Norms</th></tr>
<tr><th>PM</th><th>SO_2</th><th>NO_X</th></tr>
<tr><th>150 mg/Nm3</th><th>100 ppm</th><th>50 ppm</th></tr>
<tr><td rowspan="3">Steam Boiler-1</td><td>Max</td><td>26.0</td><td>84.0</td><td>39.0</td></tr>
<tr><td>Min</td><td>16.0</td><td>18.0</td><td>34.0</td></tr>
<tr><td>Avg</td><td>19.2</td><td>36.4</td><td>37.0</td></tr>
<tr><td rowspan="2">TFH – I</td><td>Max</td><td>34.0</td><td>15.0</td><td>40.0</td></tr>
<tr><td>Min</td><td>25.0</td><td>8.0</td><td>33.0</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td>Avg</td><td>29.6</td><td>11.4</td><td>36.8</td></tr>
<tr><td rowspan="3">TFH – II</td><td>Max</td><td colspan="3" rowspan="3">CCA not obtain</td></tr>
<tr><td>Min</td></tr>
<tr><td>Avg</td></tr>
<tr><td rowspan="3">D.G. Set</td><td>Max</td><td>88</td><td>12</td><td>40</td></tr>
<tr><td>Min</td><td>70.00</td><td>6</td><td>33</td></tr>
<tr><td>Avg</td><td>80.33</td><td>7.83</td><td>37.50</td></tr>
<tr><td rowspan="5">Steam Boiler-2</td><td></td><td colspan="3">Parameters monitored as per SPCB Norms</td></tr>
<tr><td></td><td>PM</td><td>SO_2</td><td>NO_X</td></tr>
<tr><td></td><td>150 mg/Nm3</td><td>100 ppm</td><td>50 ppm</td></tr>
<tr><td>Max</td><td>23</td><td>79</td><td>39</td></tr>
<tr><td>Min</td><td>15</td><td>16</td><td>33</td></tr>
<tr><td>Avg</td><td>19.83</td><td>30.67</td><td>36.17</td></tr>
</table>
All parameters are within the permissible limits.
</td></tr>
<tr><td>57</td><td>All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.</td><td>Complied
All the reactors / vessels used in the manufacturing process are being closed to reduce the fugitive emission.</td></tr>
<tr><td></td><td>B.2.3 HAZARDOUS/SOLID WASTE :</td><td></td></tr>
<tr><td>58</td><td>The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.</td><td>Complied
The clauses of Hazardous and Other Wastes (Management and Tran’s boundary Movement) Rules 2016 will be adhered to and authorization will be obtained according to the rules.
Summary of 6 months i.e (Jun-2023 to Nov-2023) generation of solid waste/ Hazardous Waste as below:
<table>
<tr><th rowspan="2">Name of waste</th><th rowspan="2">Waste generation As per EC TPM</th><th rowspan="2">Waste generation As per latest CCA</th><th colspan="3">Actual Waste Generation in Ton in the month
june-23 to nov- 23</th></tr>
<tr><th>Max</th><th>Min</th><th>Avg.</th></tr>
<tr><td>Spent Carbon</td><td>3</td><td>2</td><td>0.1</td><td>0.1</td><td>0.1</td></tr>
<tr><td>Distillation Residue</td><td>2812</td><td>749</td><td>15.7</td><td>1.1</td><td>8.4</td></tr>
<tr><td>Used / spent oil</td><td>6</td><td>4</td><td>0.5</td><td>0.0</td><td>0.3</td></tr>
<tr><td>Discarded containers/ barrels/ liners</td><td>120</td><td>30</td><td>0.1</td><td>0.0</td><td>0.0</td></tr>
<tr><td>ETP Sludge</td><td>70</td><td>35</td><td>0.2</td><td>0.1</td><td>0.2</td></tr>
</table>
</td></tr>
</table>

S. No	Points	Compliance Status

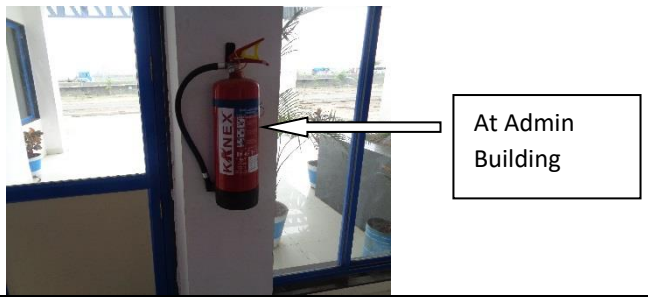
Spent Catalyst	2.4	2.4	0.0	0.0	0.0
Spent Catalyst	16.83	16.83	0.0	0.0	0.0
Waste/Residues containing oil	2	2	4.8	1.3	3.1
Exhaust air or gas cleaning residue	5000	5000	0.0	0.0	0.0
Spent solvent	760	760	8.5	1.1	4.8

The Unit has obtained membership from BEIL & RSPL for TSDF site and CHWIF for spent carbon, distillation residue, ETP Sludge and spent catalyst wastes. Membership certificate of BEIL is attached as ***Annexure 26.***

59	Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal	Complied • A separate hazardous waste storage facility room with impervious bottom and leachate collection facility is provided. Photographs of the same are as follows: 

S. No	Points	Compliance Status
		
60	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	Complied • The Unit has obtained membership from BEIL for TSDF site and CHWIF. Membership certificate of BEIL is attached as • • Annexure **26.** • The Unit has obtained membership from RSPL for Preprocessing of hazardous waste.
61	Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	Complied. Vehicle check document is attached is ***Annexure* 38.**
62	The design of the trucks/ tankers shall be such that there is no spillage during transportation	Complied Yes the design of the Trucks/tankers is such that there is no spillage during transportation.
63	AII possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Complied We have explore the possibilities and started to send the waste for pre-processing at RSPL.
64	Management of fly ash (if any) shall be as per the fly ash notification 2009 & its amendment time to time and it shall be ensured that there is 100 % utilization of fly ash to be generated from the unit.	Complied Unit has 2 no of silos with capacity 20 T for the fly ash as shown in photographs below:  Unit is sell the fly ash to the Mantra Paver & Cement Articles, Ankleshwar.
	B.2.4 SAFETY :	
65	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	Noted
66	The occupier/manager shall strictly comply the provisions under the factories act 1948 and the Gujarat factories rules 1963	Complied The occupier/manager are strictly complying the provisions under the Factories Act 1948 and the Gujarat Factories Rule 1969.

S. No	Points	Compliance Status
		Compliance of Factories Act 1956 and the Gujarat Factories Rule 1969 are given in Annexure **40.**
67	Main entry and exit shall be separate and clearly marked in the facility.	Complied Photographs of main entry and exit area.   1) Entry Gate 2) Exit Gate
68	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	Complied Plot plan for free movement of fire tender/ emergency vehicle is referred in the ***Annexure* 36.**
69	Storage of flammable chemicals shall be sufficiently away from the production area.	Complied • Unit has separate storage location for flammable chemicals as per the guidelines of petroleum & Explosives safety organization (PESO) / Petroleum Rules, 2002. • Methanol storage area is approx. 15 mt away & ammonia storage is approx. 30 mt away from the plant. Photograph of Methanol storage tank (Capacity- 2000 KL).Dyke capacity of Methanol storage tank is 1930 KL 

S. No	Points	Compliance Status
		 Photograph of Ammonia storage tank 
70	Sufficient number of fire extinguishers shall be provided near the plant and storage area,	Complied • Unit has installed 115 nos. Fire Extinguishers which covered all the plants and storage area. • There are mainly these three types of Fire Extinguishers; 1. Dry Chemical Powder (A+B+C+D) 2. Carbon Dioxide 3. ABC Details of fire extinguishers are given in ***Annexure* 29.** 
71	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals	Complied Necessary risk assessment is carried out and persons are trained. Gas/smoke/heat detectors, manual call points, fire hydrants, sprinklers, flange guards are provided to avoid any accident.
72	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	Complied Unit has sufficient facility to store all the toxic and hazardous chemicals. Photographs of storage of Methanol & Ammonia provided are as below.

S. No	Points	Compliance Status
		  Provide details of each hazardous chemicals and there Peso licenses attached as Annexure **28.**
73	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures andsafeguards mentioned in the Risk Assessment report.	Complied The project management is complying with all the environment protection measures, risk mitigation measures and safeguards which are mentioned in the risk assessment report. Compliance of RA Report provided as ***Annexure***
74	Only flame proof electrical fittings shall be provided in the plant premises.	Complied Unit has provided flame proof electrical fittings in the plant. **Photographs** 

S. No	Points	Compliance Status
75	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of onesingle large capacity tank / containers.	Complied  • Unit handles chemicals in bulk tankers with necessary precautions with intension of minimized handling and inventory. Wherever possible, small drums/containers are handled. Day tank photograph is as below.
76	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	
77	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimalhuman exposure occurs.	Complied Charging is done through SCADA system no manual handling is done All the chemicals venting system is done in closed system only. Attached as **Annexure 12.**
78	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	Complied The company have implemented all preventive and mitigation measures suggested in the Risk Assessment Report. Risk Assessment report is provided as ***Annexure* 30.**
79	Personal Protective Equipment's (PPEs) shall be provided to workers and its usage shall be ensured and supervised.	Complied • Unit has provided mandatory Personal Protective Equipment (i.e. Helmet, Safety shoes & safety goggles) to employees and ensures the usage of the same. • Supervisory staff monitors adequate use of PPE by persons at work. • Consumption of routine PPEs per month are; 1) Hand Gloves: ~100 Nos. 2) Nose Mask: ~200 Nos. 3) Apron: ~ 45 Nos. 4) Helmet – 30 Nos 5) Safety shoes – 30 Nos Ear plug & Muff: ~50 Nos.
80	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	Complied • 10 nos. First Aid Boxes are provided and kept at various locations under supervision. • Location: o Main gate o Material gate o QC lab o DMAHCL control room o Substation o 66 KV o Boiler o ETP o MA MCC Room o ACTN Plant

S. No	Points	Compliance Status
		 At Main Gate
81	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	Complied • Training is imparted regularly to workers on Safety and health aspects of Chemicals handling. • 16 hrs training per employee per annum is given to permanent employees and 12 hrs per employee per annum for contract employees is provided. The details of training for the period of

S. No	Points	Compliance Status
		Apr, 2022 to March, 2023 are attached as

ALKYL **Alkyl Amines Chemicals Lt**

Regd. Office : 401-407, Nirman Vyapar Kendra, Plot No. 10, Sector 17, Vashi,
Tel.: 022-6794 6600. fax : 022-6794 6666. E-mail : alkyl@alkylamines.com

PURCHASE ORDER

Issue No. 03 Dt. 01.01.2022 Rev. No. 00 Dt. 01.01.2022 Doc.

Supplier Name and Address	Billing and Shipping Address	PO
SANJIVANI OCCUPATIONAL HEALTH CENTRE VATSALYA HOSPITAL SHRAVAN CHOKDI BHARUCH BHARUCH 392001 Supplier Code 600412 GST No. 24ACGFS4654N1ZN Quotation Ref.	Alkyl Amines Chemicals Limited Plot No. D-2/CH/149/2, GIDC Dahej-2 Industrial Area, Tal. Vagra, Dist. Bharuch 392110 PAN No. AAACA6783F GST No. 24AAACA6783F1ZS State Gujarat State Code 24	Qu Re Val Am Inc Mo

Terms of payment AGAINST COMPLETION JOB & CERTIFIED BILLS IN 7 DAYS
Dispatched through
Remarks

Sr.No	Item Code & Description	Delivery Date	Quanti
1	**FMO Visit Charges** factory medical officer who will provide this service two hours three times in a week. Charges for it is Rs. 2750/- per visit (for 2 hours only). 3 times/week x 4 week = 12 visit/month 12 visit/month x 12 Months= 144 visit Extra visit as per company need = 10 visit Total visit = 154 visit/year 154 visit x 2750 = 423500/- Reference PO: 5000018497 DTD 18.08.2022 Terms & Conditions - 1. Uniform should be provide to OHC Staff by Sanjivani. 2. PPE'S will be provided by Company and charges will be deducted from your Monthly bill. 3. Weekly Off compulsory for all OHC Staff. 4. First Aid and Health Awareness training conduct by Male Nurse for Contract Employees as per schedule. 5. Occupational Health, First Aid and Health Awareness training conduct by FMO as per schedule. 6. Plant round by FMO with EHS Team must be taken as per EHS Schedule. 7. Full Time FMO should have 4-5 year's experience in Industries and Female candidates are not allowed. Please send the list of FMO for duty in case of regular FMO remain absent. 8. Replacement of FMO and Male Nurse should be inform in advance to AACL. 9. Male Nurse should do the safety work as per distributed by EHS and reports should be submitted to EHS and Site Head before 10th Every Month. 10. Monthly OHC report should be send to AACL FMO before 5th every month. 11. Statutory compliance related to OHC (RC,		

-
- Annexure **32.**

Training schedule is prepared to all workers and employees at site.

S. No	Points	Compliance Status
82	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment andperiodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.	Complied • Pre-employment and periodical medical examination for all workers is undertaken as per the statutory requirements and occupational health surveillance of the workers is carried out on a regular basis and records shall be maintained as per the Factory Act. • Extract of Health register is given as

S. No	Points	Compliance Status

Alkyl Amines Chemicals Limited
Training Attendance Form

Document No. Form/HR/V/06 - Issue No 02 - Date 01.01.19 - Rev.

TRAINING ATTENDANCE FORM

Subject : First Aid.
Date : 10/10/23.
Time : From 10 AM To 12 PM
Venue : Conf-- 2.
Faculty : Dr. Nirmal Khot.

SR NO	EMP NO.	NAME OF PARTICIPANTS	DEPT
1	Gurudutt	Mahesh Rathod	Prod
2	"	Sanjay Parmar	ETP
3	"	Anil Rathod	CR
4	"	Anil Kumar.	Prod
5	"	Shiv Kumar.	"
6	Newcon	Deshpal.	Gurud
7	"	Ajit Ks. Gupta	"
8	Reccon.	Vishal Vankar.	electri
9	Gurudutt	Arun Rathod.	office Boy
10	"	Rahul Sakunde	"
11	"	Somu kr.	Prod
12.	Gurudutt	Rohit Patel.	Engg Store

Signature of Faculty / Evaluator

- Annexure **33.**

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td>83</td><td>Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.</td><td>Complied
The clauses under Motor Vehicle Act, 1988, and rules made there under, will be followed to select the Trucks/Tankers used for transportation of hazardous waste.</td></tr>
<tr><td>84</td><td>The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.</td><td>Complied
The company will implement all preventive and mitigation measures suggested in the Risk Assessment Report. Risk Assessment report is provided as Annexure 30.</td></tr>
<tr><td>85</td><td>Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.</td><td>Complied
PESO license no. S/HO/GJ/03/1848(S67686) dated 08/01/2018 approval is taken for storage of class A, B and C chemicals and it is valid up to 30/09/2027. Copy of the same is attached as Annexure 28.</td></tr>
<tr><td></td><td>B.2.5 NOISE :</td><td></td></tr>
<tr><td>86.</td><td>The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules</td><td>Complied
• Noise control measures like acoustic insulation hoods, silencers, enclosures etc. are provided on all sources of noise generation to meet all statutory requirements.
• Noise monitoring is carried out periodically to ensure it is within the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
• Monthly Noise monitoring is carried out by third party monitoring. It is done by M/s. Unistar Environment and Research labs Pvt.ltd It is MoEF&CC approved and NABL accredited laboratory (Certificate no. TC-7753 dated 23/09/2020 & valid till 22/09/2022).
• Noise monitoring result for the period of (Jun-2023 to Nov-2023) is as below:
<table>
<tr><th>Sr. No.</th><th>Locations</th><th>Range</th><th>Day Reading dB(A)</th><th>Night Reading dB(A)</th></tr>
<tr><td rowspan="3">1</td><td rowspan="3">Nr. Main Gate</td><td>Min</td><td>53.8</td><td>50.2</td></tr>
<tr><td>Max</td><td>56.7</td><td>54.0</td></tr>
<tr><td>Avg.</td><td>55.5</td><td>52.18</td></tr>
<tr><td rowspan="3">2</td><td rowspan="3">Nr. Material Gate</td><td>Min</td><td>53.9</td><td>50.3</td></tr>
<tr><td>Max</td><td>57.6</td><td>53.0</td></tr>
<tr><td>Avg.</td><td>56.3</td><td>52.1</td></tr>
<tr><td rowspan="3">3</td><td rowspan="3">Plant Boundary</td><td>Min</td><td>52.5</td><td>50.1</td></tr>
<tr><td>Max</td><td>56.0</td><td>53.9</td></tr>
<tr><td>Avg.</td><td>54.4</td><td>52.1</td></tr>
<tr><td rowspan="3">4</td><td rowspan="3">Boiler</td><td>Min</td><td>71.3</td><td>64.9</td></tr>
<tr><td>Max</td><td>74.6</td><td>69.0</td></tr>
<tr><td>Avg.</td><td>73.2</td><td>67.2</td></tr>
<tr><td rowspan="2">5</td><td rowspan="2">Nr. ETP</td><td>Min</td><td>59.8</td><td>59.0</td></tr>
<tr><td>Max</td><td>63.7</td><td>62.3</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td></td><td>Avg.</td><td>62.3</td><td>60.3</td></tr>
<tr><td rowspan="3">6</td><td rowspan="3">Nr. Storage Tank Scrubber</td><td>Min</td><td>58.4</td><td>56.5</td></tr>
<tr><td>Max</td><td>61.3</td><td>60.4</td></tr>
<tr><td>Avg.</td><td>60.1</td><td>58.4</td></tr>
<tr><td rowspan="3">7</td><td rowspan="3">Nr. Methyl amine plant scrubber</td><td>Min</td><td>56.4</td><td>49.6</td></tr>
<tr><td>Max</td><td>59.2</td><td>53.1</td></tr>
<tr><td>Avg.</td><td>58.2</td><td>51.5</td></tr>
<tr><td rowspan="3">8</td><td rowspan="3">Nr. Admin</td><td>Min</td><td>70.6</td><td>63.4</td></tr>
<tr><td>Max</td><td>74.0</td><td>66.9</td></tr>
<tr><td>Avg.</td><td>72.1</td><td>65.1</td></tr>
<tr><td rowspan="3">9</td><td rowspan="3">Nr. Hazardous Waste Storage Area</td><td>Min</td><td>65.9</td><td>62.2</td></tr>
<tr><td>Max</td><td>69.5</td><td>65.1</td></tr>
<tr><td>Avg.</td><td>67.8</td><td>63.7</td></tr>
<tr><td rowspan="3">10</td><td rowspan="3">Nr. STP</td><td>Min</td><td>68.0</td><td>66.0</td></tr>
<tr><td>Max</td><td>70.4</td><td>69.2</td></tr>
<tr><td>Avg.</td><td>69.4</td><td>67.9</td></tr>
<tr><td colspan="5">GPCB limits: Day Time – 75 db(A)
Night Time – 70 db(A)</td></tr>
</table>
</td></tr>
<tr><td>87.</td><td>The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CPteam in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.</td><td>Complied
Our manufacturing processes are developed in house in our R&D Centre, Hadapsar. The cleaner production process is considered during development stage only. The process is reviewed by retired professors of reputed institutes. R&D along with technology review the process improvement time to time.</td></tr>
<tr><td>88.</td><td>The company shall undertake various waste minimization measures such as :
a. Metering and control of quantities of active ingredients to minimize waste.
b. Reuse of by-products from the process as raw materials or as raw materials substitutes.
c. Use of automated and close filling to minimize spillages.
d. Use of close feed system into batch reactors.
e. Venting equipment through vapour recovery system.
f. Use of high pressure hoses for cleaning to reduce wastewater generation.
g. Recycling of washes to subsequent batches.
h. Recycling of steam condensate.
i. Sweeping / mopping of floor</td><td>Complied
• We will monitor the losses and control them by means of recycling back to process.
• Regular preventive maintenance to avoid spillages and leakages will be carried out.
• The Central Technical cell of the parent company will take up these points of improvement, study them as applicable to the project and implement in a phased manner. The practice of REUSE; REDUCE; RECYCLE will be followed.
Details of waste minimization team formation.
1)Unit Head
2)Production Head
3)Engineering Head
4)EHS head
5)Technical department members
6)Project team member
7)Quality control member
8) R&D Head</td></tr>
</table>

S. No	Points	Compliance Status
	instead of floor washing to avoid effluent generation. j. Regular preventive maintenance for avoiding leakage, spillage etc.	
	B.2.7 GREEN BELT AND OTHER PLANTION :	
89.	The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.	Complied Total plot area is 136180 sq.mt. Required green belt area to be developed inside and outside is 44939 sq. mt. We have planted 1866 trees inside the plant and taken GIDC plot for the development of green belt. We have planted 7192 trees this year in this plot. The schedule of tree plantation for the three years is followed. Photographs of the plantation is attached as below.  East side of Plot  South Side of Plot  In front of admin building

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td> 
GIDC Plot

Site layout map is attached as Annexure 36.</td></tr>
<tr><td>90.</td><td>Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.</td><td>Noted & Complied
We have installed Drip irrigation system for green belt development.</td></tr>
<tr><td></td><td>B.3 OTHER CONDITION :</td><td></td></tr>
<tr><td>91.</td><td>Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).</td><td>Complied
Air quality monitoring and prevention is Partly complied. The online sensor has been provided to the process vent however system for connection to GPCB/CPCB is also provided.</td></tr>
<tr><td>92.</td><td>The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-lA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.</td><td>Complied
Refer attached CER Plan
M/s. Alkyl Amine Chemicals Ltd. has done various CER activities in the nearby villages in study area. The details of the CER activities are given in following table.
<table>
<tr><th>Year</th><th>Location</th><th>Category</th><th>Project - Description</th><th>Amount Budgeted (Rs. In Lakhs)</th><th>Actual Spen</th></tr>
<tr><td>2019-2020</td><td colspan="5">Due to COVID- 19 and Lockdown situation - CER planned complete the work</td></tr>
<tr><td>2020-2021</td><td>Green Belt Development - Vadadala Village</td><td>Environment Sustainability & Rural Development</td><td>Tree plantation will be done in 20,995 Sq.Mtr. Whereby we will plant 3500 trees (approx)</td><td>16.64</td><td>16.64</td></tr>
</table></td></tr>
</table>

S. No	Points	Compliance Status

2020-2021	Green Belt Development - Vadadala Village		Plant maintenance - monthly cost is INR 37,000/- (for Nov to 2020 to mar 2021) + Water + Jiva Amrut	1.6	1.60
2020-2021	Overhead WaterTank - 50KL - Vav Village	Health	50KL overhead water tank to be constructed at Vav Village. Over 750 people will be benefited from this project	21.42	21.42
2021-22	Environment-Green Belt Development - Vadadala Village	Environment	Plant maintenance - monthly cost is INR 15250/- (April 2021 to 2022) + Water + Jiva Amrut	1.94	1.94
2021-22	Tree plantation 700 saplings – Greenbelt area replacement	Environment	Tree plantation 750 saplings – Greenbelt area replacement	1.49	1.49
2021-22	Pesticides/ fertilizers for greenbelt area	Environment	Pesticides/fertilizers for greenbelt area	0.32	0.32
2021-22	Green Belt Development - Vadadala Village	Environment	Drip Irrigation Maintenance and Cleaning and Pesticides	1.59	1.59
Total				**45**	**45**

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Year	Location	Category	Project - Description	Amount Budgeted (Rs. In Lakhs)	Actual Spent - Rs. in lakhs
2022-23	Goladara	Environment	Lake Desilating Work - desilt around	18.58	18.58

<table>
<tr><th>S. No</th><th>Points</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td></td><td></td><td>15000 cubic meters</td><td></td><td></td></tr>
<tr><td>2022-23</td><td>Galanda</td><td>Environment</td><td>50kl Water tank at Galanda</td><td>28.91</td><td>28.91</td></tr>
</table>
</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>93.</td><td>Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off pretreatment must be done to remove suspended matter.</td><td>Complied
Rain water harvesting of rooftop runoff system provided & it will be collected in the underground tank and it will be utilized in the plant after required treatment/ filtration. Photo graph is attached.
 
</td></tr>
<tr><td>94.</td><td>The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC</td><td>Complied
• We are disposing treated effluent into GIDC Drain and paying for the disposal charges, membership fees and capital cost for laying pipeline from site to common pit. Hence, we are financially and technically participating for common environmental facility developed by GIDC.</td></tr>
<tr><td>95.</td><td>Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting inaddition the provision for solar water heating system shall also be provided.</td><td>Complied
Till now we have installed 14 lights Photo of solar lights attached as Annexure 44.</td></tr>
<tr><td>96.</td><td>The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.</td><td>Complied
The area earmarked as green area is used only for plantation and will not be altered for any other purpose.</td></tr>
<tr><td>97.</td><td>All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.</td><td>Complied
Undertaking for no Bore well and provision of separate electric meter was submitted with EIA report.
We have not dug any Bore well and separate electric meter ETP is provided</td></tr>
<tr><td>98.</td><td>The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.</td><td>Complied</td></tr>
<tr><td>99.</td><td>In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.</td><td>Noted</td></tr>
</table>

S. No	Points	Compliance Status
100.	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	Complied
101.	During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidentalspillages with domestic wastewater or storm water.	Complied • Material transfer spillages can have avoided by providing Curbing. • Dyke Wall Provided. • If spillage occur, it is not mixing with domestic wastewater or storm water as Effluent Transfer Line is above the ground and the Storm water line is provided below the ground. • And also separate pit is provided, if spillage occur can store in pit and transfer to ETP. •
102.	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Complied Pucca flooring / impervious layer are already provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
103.	Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.	Complied Comply with the requirement. Leakages are attended immediately.
104.	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	Noted
105.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act,1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted
106.	The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	Complied
107.	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	Complied
108.	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Complied
109.	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied Clearance letter was published in Gujarat Samachar and Times of India newspapers on dated 26th June, 2019. Kindly find ***Annexure* 35** for the copy of the same. EC advertisement copy submission to RO is attached as ***Annexure* 37.**

S. No	Points	Compliance Status
110.	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	Noted
111.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned abovemay result in withdrawal of this clearance and attract action., under the provisions of Environment (Protection) Act, 1986.	Noted
112.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Noted
113.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted
114.	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additionalconditions, if the same is found necessary.	Noted
115.	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and finalapproval of the project by the concerned authorities and the date of start of the project.	Noted
116.	This environmental clearance is valid for seven years from the date of issue.	Noted
117.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted
118.	Submission of any false or misleading information or data which is material to screening of scoping or appraisal or decision on the application makes this environment clearance cancelled.	Noted

ANNEXURES

ANNEXURE 1*: CCA COMPLIANCE*

Compliance Report of CCA No. AWH - 123845 dated 16/01/2023

CCA Compliance Report

1) CCA Amendment No 602986 dated 07/10/2021

2).CCA Amendment no W-111684 dated 02/04/2021

3).CCA Amendment No H-101676 dated 31/08/20219

4).CCA No. AWH - 123845 dated 07/04/2018

5).CCA No. AWH - 123845 dated 16/01/2023

Period: From: (Jun-2023 to Nov-2023)

<table>
<tr><th>S. No.</th><th>Condition</th><th>Compliance Report</th></tr>
<tr><td>1</td><td>Consent order No: AWH-123845 Date of Issue-20/03/20J8.</td><td>Noted</td></tr>
<tr><td>2</td><td>The consent under Water Act 1974, shall be valid upto 01/11/2022. The consent under Air Act - 1981, Authorization under Environment (Protection) Act, 1986 shall be valid up to 01/11/2022 to operate industrial plan for manufacture of the following products:-
<table>
<tr><th>S. No.</th><th>Name of Products</th><th>Quantity (MT/Month)</th><th>Quantity (MT/Annum)</th></tr>
<tr><td>1</td><td>Methylamines (Mono, Di & Tri)</td><td>4500</td><td>49500</td></tr>
<tr><td>2</td><td>Amine Hydrochloride</td><td>57750</td><td>57750</td></tr>
<tr><td>3</td><td>Acetonitrile</td><td>16500</td><td>16500</td></tr>
<tr><td>4</td><td>Sodium Acetate</td><td>6105</td><td>6105</td></tr>
</table></td><td>Noted and complied.
Production data from (Jun-2023 to Nov-2023) is below.
<table>
<tr><th>Product</th><th>UOM</th><th>Jun-23</th><th>Jul-23</th><th>Aug-23</th><th>Sep-23</th><th>Oct-23</th><th>Nov-23</th></tr>
<tr><td>Methylamines</td><td>MT/Month</td><td>3309.01</td><td>2902.16</td><td>2974.55</td><td>3265.21</td><td>3325.39</td><td>2476.08</td></tr>
<tr><td>Amine Hydrochloride</td><td>MT/Month</td><td>2267.62</td><td>2034.89</td><td>2799.21</td><td>2951.27</td><td>3103.36</td><td>2298.17</td></tr>
<tr><td>Acetonitrile</td><td>MT/Month</td><td>1097.31</td><td>356.78</td><td>1305.79</td><td>1548.13</td><td>147.24</td><td>764.71</td></tr>
<tr><td>Sodium Acetate</td><td>MT/Month</td><td>249.42</td><td>148.45</td><td>0.00</td><td>0.00</td><td>0.00</td><td>362.50</td></tr>
</table></td></tr>
<tr><td>2 a</td><td>Applicant shall strictly comply/fulfil with all the conditions stipulated by competent authority in the order of Environmental Clearance issued vide letter no. SEIAA/GUJ/EC/5(f)/922/2019 dated 19/06/2019</td><td>Noted and Complying</td></tr>
<tr><td>2b</td><td>Unit shall use fresh water material only</td><td>Noted and Complying</td></tr>
<tr><td>2C</td><td>Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MOU with such authorized end-users and submit MOU.</td><td>Noted and Complying</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Condition</th><th>Compliance Report</th></tr>
<tr><td>2d</td><td>All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.</td><td>Noted and Complying</td></tr>
<tr><td>3</td><td>SUBJECT TO THE FOLLOWING SPECIFIC CONDITION RELATED TO ENVIRONMENT CLEARANCE (EC):-</td><td></td></tr>
<tr><td>3.1</td><td>The applicant shall not produce any products as well as not carry out any activities for products/process listed in the EIA Notification dated 14/09/2006 as amended from time to time, requiring prior Environmental Clearance from competent authority.</td><td>Noted and Complying</td></tr>
<tr><td>3.2</td><td></td><td></td></tr>
<tr><td>4</td><td>CONDITIONS UNDER WATER ACT:-</td><td></td></tr>
<tr><td>4.1</td><td>The quantity of total water consumption shall not exceed 1070.5 KL/day. (Break up as below)
a) Domestic : 23 KL/day
b) Industrial : 1016.5 KL/day
c) Gardening / green belt : 31 KL/day</td><td>• Complied. Details of actual average water consumption from (Jun-2023 to Nov-2023) is given below:
<table>
<tr><th rowspan="2">S. No</th><th rowspan="2">Month of 2023-24</th><th colspan="2">Water consumption in KLD</th><th rowspan="2">Actual water Consumption in KLD</th></tr>
<tr><th>Permitted as per EC</th><th>Permitted as per CCA</th></tr>
<tr><td>1</td><td>Jun-23</td><td rowspan="8">994</td><td rowspan="8">1070.5</td><td>822.10</td></tr>
<tr><td>2</td><td>Jul-23</td><td>662.90</td></tr>
<tr><td>3</td><td>Aug-23</td><td>836.60</td></tr>
<tr><td>4</td><td>Sep-23</td><td>887.30</td></tr>
<tr><td>5</td><td>Oct-23</td><td>665.22</td></tr>
<tr><td>6</td><td>Nov-23</td><td>631.40</td></tr>
<tr><td></td><td>Min</td><td>631.40</td></tr>
<tr><td></td><td>Max.</td><td>887.30</td></tr>
<tr><td></td><td>Avg.</td><td>750.92</td></tr>
</table></td></tr>
<tr><td>4.2</td><td>The quantity of total waste water generation shall not exceed 271.1 KL/day. (Break up as below)
a) Domestic – 9 KL/day
b) Industrial – 262.1 KL/day</td><td>Complied. Waste Water generation from (Jun-2023 to Nov-2023) is given below:
<table>
<tr><th rowspan="2">S. No</th><th rowspan="2">Month of 2023-24</th><th colspan="2">Waste water generation in KLD</th><th colspan="3">Actual Waste water generation in KLD</th></tr>
<tr><th>Permitted as per EC</th><th>Permitted as per CCA</th><th>Min</th><th>Max</th><th>Avg.</th></tr>
<tr><td>1</td><td>Jun-23</td><td rowspan="8">588</td><td rowspan="8">213.7</td><td>50</td><td>200</td><td>180.7</td></tr>
<tr><td>2</td><td>Jul-23</td><td>100</td><td>210</td><td>193.0</td></tr>
<tr><td>3</td><td>Aug-23</td><td>205</td><td>210</td><td>208.9</td></tr>
<tr><td>4</td><td>Sep-23</td><td>208</td><td>210</td><td>209.4</td></tr>
<tr><td>5</td><td>Oct-23</td><td>199</td><td>210</td><td>208.5</td></tr>
<tr><td>6</td><td>Nov-23</td><td>0</td><td>210</td><td>171.9</td></tr>
<tr><td></td><td>Min</td><td>0</td><td>200</td><td>171.9</td></tr>
<tr><td></td><td>Max.</td><td>208</td><td>210</td><td>209.4</td></tr>
<tr><td></td><td>Avg.</td><td>127</td><td>208</td><td>195.4</td></tr>
</table></td></tr>
<tr><td>4.4</td><td>199 KL/day industrial waste water shall be sent to ETP for Treatment. Treated effluent shall be discharge into GIDC drainage system.</td><td>Complied. ETP outlet details form (Jun-2023 to Nov-2023) is below:</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><th>Sr. No.</th><th>Month</th><th>ETP Outlet Discharge (KL/Day)</th><th>Disposal Mode</th></tr>
<tr><td>1</td><td>Jun-23</td><td>180.7</td><td>By pipeline</td></tr>
<tr><td>2</td><td>Jul-23</td><td>193</td><td>By pipeline</td></tr>
<tr><td>3</td><td>Aug-23</td><td>208.9</td><td>By pipeline</td></tr>
<tr><td>4</td><td>Sep-23</td><td>209.4</td><td>By pipeline</td></tr>
<tr><td>5</td><td>Oct-23</td><td>208.5</td><td>By pipeline</td></tr>
<tr><td>6</td><td>Nov-23</td><td>171.9</td><td>By pipeline</td></tr>
</table>
</td></tr>
<tr><td>4.5</td><td>The quality of treated effluent shall conform to the following

standards prior to disposal GIDC Sewer Line – Dahej Vilayat Pipeline/Common Disposal System up to the sea for final disposal at NIO designated point (As GIDC underground drainage line network is not ready up to the unit and hence unit shall discharge their treated waste water conform to the following standards at GIDC pumping station through tankers complying conditions stipulated by GIDC letter dated: 13/07/2017).
<table>
<tr><th>PARAMETERS</th><th>PERMISSIBLE LIMIT</th></tr>
<tr><td>pH</td><td>6 to 9</td></tr>
<tr><td>Temperature</td><td>Shall not exceed more tha ambient water temperatur</td></tr>
<tr><td>Total Suspended Solids</td><td>100 mg/l</td></tr>
<tr><td>Oil and Grease</td><td>10 mg/l</td></tr>
<tr><td>Phenolic Compounds</td><td>5 mg/l</td></tr>
<tr><td>Cyanides</td><td>0.2 mg/l</td></tr>
<tr><td>Flouride</td><td>15 mg/l</td></tr>
<tr><td>Sulphides</td><td>5 mg/l</td></tr>
<tr><td>Ammonical Nitrogen</td><td>50 mg/l</td></tr>
<tr><td>Total Kjeldhal Nitrogen (TKN)</td><td>50 mg/l</td></tr>
<tr><td>Nitrate Nitrogen</td><td>50 mg/l</td></tr>
<tr><td>Total Res. Chlorine</td><td>1 mg/l</td></tr>
<tr><td>Arsenic</td><td>0.2 mg/l</td></tr>
<tr><td>Trivalent Chromium</td><td>2 mg/l</td></tr>
<tr><td>Hexavelent Chromium</td><td>0.1 mg/l</td></tr>
<tr><td>Copper</td><td>3 mg/l</td></tr>
<tr><td>Lead</td><td>0.1 mg/l</td></tr>
<tr><td>Mercury</td><td>0.01 mg/l</td></tr>
<tr><td>Nickel</td><td>3 mg/l</td></tr>
<tr><td>Zinc</td><td>15 mg/l</td></tr>
<tr><td>Cadmium</td><td>0.05 mg/l</td></tr>
<tr><td>BOD (3 days at 27° C)</td><td>100 mg/l</td></tr>
<tr><td>COD</td><td>250 mg/l</td></tr>
<tr><td>Selenium</td><td>0.05 mg/l</td></tr>
<tr><td>Vanadium</td><td>0.2 mg/l</td></tr>
<tr><td>Maganese</td><td>2 mg/l</td></tr>
<tr><td>Iron</td><td>3 mg/l</td></tr>
<tr><td>Bio-Assay test</td><td>90% Survival of fish afte 100% effluent</td></tr>
</table>
</td><td>Complied. Analysis report of ETP outlet is attached as Annexure 1.</td></tr>
<tr><td>4.6</td><td>Sewage shall be treated in STP to conform to the following standards and utilized on land for irrigation/plantation exclusively within premises:
<table>
<tr><th>PARAMETERS</th><th>PERMISSIBLE LIMIT</th></tr>
<tr><td>pH</td><td>6.5 to 9.0</td></tr>
<tr><td>Total Suspended Solids</td><td><30 mg/l</td></tr>
<tr><td>Fecal Coliform (Most probable number per 100 mililiter, MPN/100ml)</td><td><1000</td></tr>
<tr><td>Total Residual chlorine</td><td>Minimum 0.5 ppm</td></tr>
<tr><td>BOD (5 days at 20°C)</td><td>20 mg/l</td></tr>
</table>
</td><td>Complied. Analysis report of STP outlet is attached as Annexure 2.</td></tr>
<tr><td>4.7</td><td>The unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act 1977 for the</td><td>Water meters are provided at GIDC inlet Photographs of the same are attached as Annexure 3.</td></tr>
</table>

<table>
<tr><td></td><td>purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the industry until the contrary is proved.</td><td></td></tr>
<tr><td>4.8</td><td>SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS UNDER WATER ACT:-</td><td></td></tr>
<tr><td>4.8.1</td><td>Applicant shall be a member of Dahej CETP as & when come up and sent its industrial waste water, if required</td><td>Membership will be taken.</td></tr>
<tr><td>4.8.2</td><td>The effluent shall be stripped off, of VOC’s in a closed system before further treatment into ETP</td><td>Complied. We have closed system so there is no chance to generation of VOC’s before further treatment of ETP.</td></tr>
<tr><td>4.8.3</td><td>Unit shall provide treated effluent holding facility for at least 48 hrs, having vertical tank design preferably.</td><td>Complied. 48 Hours holding capacity Provided in ETP</td></tr>
<tr><td>4.8.4</td><td>Applicant shall carry out Bio Assay and Toxicity test for the treated waste water and same shall be submitted to the GPCB</td><td>Complied. Carried out by GPCB approved lab & submitted to the GPCB</td></tr>
<tr><td>4.8.5</td><td>Unit shall install continuous monitoring as well as alarm system for parameters of treated effluent, such as:-pH meter, TOC analyzer, magnetic flow meter along with totalizer and recorder at the final outlet of factory drain/pipe of ETP. Records of the same shall be maintained invariably by the unit and shall be submitted to GPCB every month.</td><td>Complied.
1) ETP Online monitoring is in place.
2) Sox & Nox flue gas sensors are installed to boiler stack and monitoring is carried out
3) Continuous monitoring of ammonia sensors are under installation. Photographs of the same are provided as Annexure 4.</td></tr>
<tr><td>4.8.6</td><td>Applicant shall ensure& undertake on Rs. 100 stamp paper that it has one & only one outlet in GIDC U/Drain</td><td>Complied. We have only one out let. We had obtain the permission of effluent discharge through pipe line from 24 Oct 2019 until it has been done by tankers. Permission letter submitted to GPCB</td></tr>
<tr><td>4.8.7</td><td>The GIDC drainage connection from units final outlet to nearest sump of GIDC Sewer Line – Dahej Vilayat Pipeline/Common Disposal System up to the sea shall be completed &commissioned before applying for CCAfurther unit shall submit GIDC permission letter pertaining to same.</td><td>Complied. Permission letter from GIDC Effluent disposal quantity of 588 KLPD provided as Annexure 5.</td></tr>
<tr><td>4.8.8</td><td>Name of the unit & technical relevant details shall be prominently written /printed on mouth of pipeline opening in to GIDC U/G drain & shall be made visible to inspecting officials.</td><td>Complied. Photograph of showing name of unit and technical relevant details printed on mouth of pipeline opening in to GIDC above ground drain is attached as Annexure 6.</td></tr>
<tr><td>4.8.9</td><td>For the collection and disposal of industrial waste water, unit shall provide disposal tank with fixed pipeline with flow meter and TOC meter. Unit shall maintain log sheet for the same on day to day basis.</td><td>Complied. Photograph of Flow meter &TOC meter is attached As Annexure 7.
We are maintain log sheet for the same on day to day basis and attached as Annexure 8.</td></tr>
<tr><td>4.8.10</td><td>Transportation of industrial waste water shall be carried out by dedicated tanker with GPS facility.</td><td>Complied. We had obtain the permission of effluent discharge through pipe line from 24 Oct 2019 until it has been done by tankers. Permission letter submitted to GPCB</td></tr>
<tr><td>4.8.11</td><td>Unit shall prepare & maintain log sheet for waste water discharge through tanker on day to day basis and shall maintain record of the waste water sent through tanker.</td><td>Complied. We maintain log sheet & Record for Discharge day to day basis and attached as Annexure 8.</td></tr>
<tr><td>4.8.12</td><td>Unit shall follow up with GIDC for lay down of drainage pipeline</td><td>Noted & Complied.</td></tr>
<tr><td>5</td><td>CONDITIONS UNDER AIR ACT</td><td></td></tr>
<tr><td>5.1</td><td>Following shall be used as fuel in each of the boiler/D. G. Set as following rates:-
<table>
<tr><td>Sr. No.</td><td>Fuel</td><td>Quantity</td></tr>
<tr><td>1</td><td>Coal</td><td>5450 kg/hr.</td></tr>
<tr><td>2</td><td>HSD</td><td>208 lit/hr.</td></tr>
</table></td><td>Complied. Details of fuel consumption detail from (Jun-2023 to Nov-2023)
<table>
<tr><th>Sr. No.</th><th>Source of emission with Capacity</th><th>Stack Height (meter)</th><th>Type of Fuel</th><th>Avg. consumption J-(Jun-2023 to Nov-2023)</th></tr>
<tr><td>1</td><td>Boiler – 1 & 2 (30 MT/Hr.)</td><td>70</td><td>Coal</td><td>5014.88</td></tr>
<tr><td>2</td><td>D. G. Set (1000 KVA)</td><td>16</td><td>HSD</td><td>1233.33</td></tr>
<tr><td>3</td><td>TFH</td><td>37</td><td>LDO</td><td>70.70</td></tr>
</table></td></tr>
<tr><td>5.2</td><td>The Flue gas emission through stack attached to boiler/D.G Set shall confirm to the following standards:
<table>
<tr><td></td><td></td><td></td><td></td><td>Air Emission</td></tr>
</table></td><td>Complied. Stack emission reports are attached as Annexure 9.</td></tr>
</table>

	<table><tr><th>Sr. No.</th><th>Stack Attached to</th><th>Height (m)</th><th>APCM</th><th>Pollutant</th><th>Concentration</th></tr><tr><td>1</td><td>Boiler (cap: 30 MT/hr.) **Standby**</td><td>70</td><td>ESP, Ventury scrubber (High efficacy)</td><td>Particulate Matter SO_2 NO_X</td><td>150 mg/Nm^3 100 ppm 50 ppm</td></tr><tr><td>2</td><td>Boiler (cap: 30 MT/hr.) **Working**</td><td>70</td><td>ESP, Ventury scrubber ESP (High efficacy)</td><td></td><td></td></tr><tr><td>3</td><td>D. G. Set (cap 1000 KVA)</td><td>16</td><td>-</td><td></td><td></td></tr><tr><td>4</td><td>TFH</td><td>37</td><td>--</td><td>Particulate Matter SO_2 NO_X</td><td>150 mg/Nm^3 100 ppm 50 ppm</td></tr></table>	
5.3	Process gas emission from the stacks/vents shall conform to the following standards: <table><tr><th rowspan="2">Sr. No.</th><th rowspan="2">Stack Attached to</th><th rowspan="2">Height (m)</th><th rowspan="2">Air Pollution Control System</th><th colspan="2">Air Emission</th></tr><tr><th>Pollutant</th><th>Concentration</th></tr><tr><td>1</td><td>Storage Tank Scrubber</td><td>11</td><td>Water Scrubber</td><td>NH3 Total Amines</td><td>175 mg/Nm^3 Absent</td></tr><tr><td>2</td><td>Methyl amines Plant Scrubber</td><td>15</td><td>Water Scrubber</td><td>NH3 Total Amines</td><td>175 mg/Nm^3 Absent</td></tr><tr><td>3</td><td>Acetonitrile plant scrubber</td><td>32</td><td>Water Scrubber</td><td>NH3 Total Amines</td><td>175 mg/Nm^3 Absent</td></tr></table>	Complied. Process vent emission reports are attached as **Annexure 10**.
5.4	The applicant shall install & operate a comprehensive adequate air pollution control measures in order to achieve prescribed below.	Complied. We have provided adequate air pollution control system to all vents. Photographs of the same are attached as **Annexure 11.**
5.5	Stack monitoring facilities like port hole, platform/ladder etc, shall be provided with stacks/vents chimney in order to facilitate sampling of gases being emitted into the atmosphere.	Complied. Stack monitoring facilities are provided. Photographs of the same are attached as **Annexure 12.**

<table>
<tr>
<td>5.6</td>
<td>Ambient air quality within and outside the premises of the unit shall conform National Ambient Air Quality standards notified by MOEF vide notification dated 16/11/2009 and mainly to the following standards:-
<table>
<tr><th>Sr. No.</th><th>Pollutant</th><th>Time Weighted Average</th><th>Concentration in Ambient Air</th></tr>
<tr><td>1</td><td>Sulphur Dioxide (SO_2), µg/m^3</td><td>Annul
24 Hours</td><td>50
80</td></tr>
<tr><td>2</td><td>Nitrogen Oxides, (NO_x), µg/m^3</td><td>Annul
24 Hours</td><td>40
80</td></tr>
<tr><td>3</td><td>Particulate Matter (Size less than 10 µm) OR PM_{10} µg/m^3</td><td>Annul
24 Hours</td><td>60
100</td></tr>
<tr><td>4</td><td>Particulate Matter (Size less than 2.5 µm) OR $PM_{2.5}$ µg/m^3</td><td>Annul
24 Hours</td><td>40
60</td></tr>
</table>
*’Annual arithmetic mean of minimum of 104 measurements in a year at a particular size taken twice a week 24 hourly at uniform intervals.
** 24 Hourly or 08 Hourly or 01 Hourly monitored values as applicable, shall be complied with 98 % of the tome in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.
Note: - Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.</td>
<td>Complied</td>
</tr>
<tr><td>5.7</td><td>The applicant shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the given standards.</td><td>Complied. We are operating all environment control systems efficiently. Energy consumption details to run air pollution control measures are given in Annexure 13.</td></tr>
<tr><td>5.8</td><td>The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified in the conditions.</td><td>Noted</td></tr>
<tr><td>5.9</td><td>The applicant shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to I and for use of Board’s staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/display to facilitate identification.</td><td>Complied. Photographs of stacks are given as Annexure 14.</td></tr>
<tr><td>5.10</td><td>All measures for the control of environmental pollution shall be provided before commencing production.</td><td>Complied</td></tr>
<tr><td>5.11</td><td>SUBJECT TO THE SPECIFIC CONDITIONS UNDER AIR ACT</td><td></td></tr>
<tr><td>5.11.1</td><td>Total control of odour nuisance from the plant premises, shall be achieved & maintained by the applicant continuously</td><td>Noted</td></tr>
<tr><td>5.11.2</td><td>The applicant shall install continuous online monitoring system on the stacks for the parameters such as SO_2, Nox PM, NH3, & Total amines etc.</td><td>Complied. Online stack monitoring system is installed for boiler chimney, Process stacks, storage stacks .it is connected with GPCB server. Photographs of the same are attached as Annexure 4.</td></tr>
<tr><td>6</td><td>AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6(2)).</td><td></td></tr>
<tr><td>6.1</td><td>Number of authorization: AWH-91871 Date of Issue-20/03/2018</td><td>Noted</td></tr>
<tr>
<td>6.2</td>
<td>M/s. ALKYL AMINES CHEMICAL LIMITED, is here by granted an authorization to operate facility for following hazardous wastes on the premises situated at PLOT NO: D2/CH/149/2, GIDC DAHEJ-2. TAL: VAGRA, DIST: BHARUCH.
<table>
<tr><th>Sr. No.</th><th>Type of Waste</th><th>Category</th><th>Quantity (MT/Annum)</th><th>Facility</th></tr>
<tr><td>1</td><td>Spent carbon</td><td>36.2</td><td>1</td><td>Collection, Storage, Treatment and disposal by</td></tr>
</table>
</td>
<td>Complied. Hazardous waste generation, disposal and stock details are given as Annexure 15.</td>
</tr>
</table>

				Incineration at approved common Incineration facility.
2	Distillation Residue	20.3	24	Collection, Storage, Treatment and disposal by Incineration at approved common Incineration facility.
3	Used/Spent Oil	5.1	2	Collection, Storage, Treatment and disposal by Selling to registered re-refiners.
4	Discarded containers/barrels/liners	33.1	15	Collection, Storage, Decontamination, Transportation, Disposal by Selling to Vender.
5	ETP Sludge	35.3	25	Collection, Storage, Transportation, Disposal at TSDF of BEIL.
6	Spent catalyst	28.2	16.83	Collection, Storage, Transportation, Disposal at TSDF of BEIL.
7	Wastes/Residues containing oil	5.2	1	Collection, Storage, Treatment and disposal by Incineration at approved common Incineration facility
8	Exhaust Air or Gas cleaning residue	SCH-1 35.1	2500	Collection, Storage, Transportation, Disposal at TSDF of BEIL.
9	Spent catalyst (MA plant)	28.2	2.4	Collection, Storage, Transportation, Disposal at TSDF of BEIL
10	Spent Solvent	20.2	760 MT	Collection, storage, transport

	and disposal to authorized end user having rule -9 permission & valid CCA after MOU	
6.3	The authorization is granted to operate facility for collection, storage, within the factory premises, transportation and ultimate disposal of Hazardous wastes as mentioned above in condition no: 6.2.	Noted and complied
6.4	The authorization shall be in force for a period up to 01/11/2022	Noted
6.5	The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.	Noted
6.6	Unit shall provide separate adequate storage areas for raw materials, products, each type of hazardous wastes.	Complied. Separate storage for hazardous waste is provided. Photograph of the same is given in **Annexure 16.**
6.7	Unit shall cover the open portion on both sides of the hazardous waste storage area by Providing GI Sheets from the top to the bottom as well as provide slanted sheets in the front Portion, to Prevent ingress of water from outside.	Complied. Separate storage for hazardous waste is provided. Photograph of the same is given in **Annexure 16.**
7.0	TERMS AND CONDITIONS OF AUTHORISATION	
7.1	The applicant shall comply with the provisions of the Environment (Protection) Act – 1986 and the rules made there under.	Complying
7.2	The authorization shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.	Noted
7.3	The persons authorized shall not rent, lend, sell, transfer of otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.	Noted
7.4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization.	Noted
7.5	It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.	Noted
7.6	An application for the renewal of an authorization shall be made as laid down in rule 5 (6) (ii).	Noted
7.7	Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003.	Complied. Display board is provide at main gate Photograph of the same is attached as **Annexure 17.**
7.8	Industry shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.	Noted
8	GENERAL CONDITIONS	
8.1	Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.	Noted
8.2	Applicant shall also comply with the general conditions given in annexure I attached herewith (No: 1 to 38).	Noted
8.3	The applicant shall not carry out any activities for which required clearances are not obtained.	Noted
8.4	If it is established by any competent authority that the damages 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 competent authority.	Noted
8.5	Regular maintenance of the pipeline shall be carried out to avoid any spillage or leakage during conveyance of the effluent.	Noted
8.6	Unit shall keep accurate records of their water consumption and wastewater generation, discharge, quantity of each product manufactured, and consumption of electricity on day-to-day basis and shall be required to submit the compiled record for each month to GPCB on or before seventh day of the succeeding month.	Noted

	Separate logbooks shall be maintained for recording all the necessary data.	
8.7	Magnetic flow meters shall be installed at the various stages of inlet & outlet of pipeline to measure the quantity of effluent at each stage of conveyance.	Complied. We have provided one online meter at effluent discharge. Photographs of the same are provided as **Annexure 7.**
1	Specific condition Amendment CCA- No 602989,07/10/2021	
a	Unit shall operate only one boiler (30TPH) at a time	Noted & complying
b	There shall be no increase in production, water consumption, wastewater generation and fuel consumption.	Noted & complying
c	Unit shall follow coal handling guideline framed by Board and provide close ash handling facility	Noted & complying
d	Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.	Noted & complying
e	Unit shall install online Continuous Emission Monitoring System (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.	Complied. Online Continuous Emission Monitoring System (CEMS) is provided

Annexure 1: Analysis Report of ETP Outlet Sept. – 23

UniStar
Environment and Research Labs Pvt. Ltd.

White House
Near G.I.D.C. Office, Char Rasta,
Vapi - 396 195. Gujarat, India.
Phone : +91 260 2433966 / 2425610
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024) | QCI-NABET Accredited EIA & GW Consultant Organization | GPCB Recognized Environmental Auditor (Schedule-II) | ISO 9001 : 2015 Certified Company | ISO 45001 : 2018 Certified Company

TEST REPORT

ULR No.	---	Report No.	**URC /23/09/L-0375**
Name & Add. of Customer	**M/s. Alkyl Amines Chemicals Ltd.** Plot No. D-2/CH-149/2, GIDC, DAHEJ – II, Dahej-392130, Ta. Vagra, Dist. Bharuch Gujarat	Date Of Report	**19/09/2023**
		Customer's Ref.	--
Sample Details	**ETP Outlet Water Sample**	Location	--
Sample Qty.	**20 Lit. + 1 Lit. + 1 Lit.**	Appearance	**Colourless**
Sampling Date	**11/09/2023**	Sample Received Date	**12/09/2023**
Test Started Date	**12/09/2023**	Test Completion Date	**18/09/2023**
Sampled By	**Client.**	Sampling Method	--
UERL Lab ID. No.	**23/09/L-0375**		

TEST RESULTS:

DISCIPLINE: Chemical Testing		**NAME OF GROUP: Pollution & Environment**			
Sr. No.	**Parameters**	**Test Method Permissible**	**Permissible Limits (G.P.C.B.)**	**Unit of Measurement**	**Results**
PHYSIO-CHEMICAL PARAMETERS					
1.	pH @ 25 ° C	IS 3025(Part 11):2022	**6.0 – 9.0**	--	7.40
2.	Total Suspended Solids	APHA 23rd Ed., 2017 2540 D 2-70	**100**	mg/L	6
3.	Colour	IS 3025(Part 4):2021	--	Pt. Co. Scale	10
4.	Temperature	IS 3025(Part 9):1984	**Shall not exceed more than 5 ^{0}C above received water temperature**	^{0}C	29
GENERAL CHEMICAL PARAMETERS					
5.	Oil & Grease	IS 3025(Part 39):2021	**10**	mg/L	BDL(MDL:2.0)
6.	Fluoride	APHA 23rd Ed.,2017,4500 F, D	**15**	mg/L	0.38
7.	Sulphide	APHA 23rd Ed.,2017,4500 S^{-2} F	**5**	mg/L	BDL(MDL:0.05)
8.	TKN	APHA 23rd Ed.,2017,4500 NORG, B	**50**	mg/L	11.4
9.	Ammonical Nitrogen	APHA 23rd Ed.,2017,4500 NH_3-B&C	**50**	mg/L	5.5
10.	Copper	APHA 23rd Ed.,2017,3111-B, 3-20	**3**	mg/L	BDL(MDL:0.05)
11.	Zinc	APHA 23rd Ed.,2017,3111-B, 3-20	**15**	mg/L	BDL(MDL:0.05)
12.	COD	IS 3025(Part 58):2006	**250**	mg/L	48.5
13.	BOD (3 days at 27 ^{0}C)	IS 3025(Part 44):1993	**100**	mg/L	15
14.	Arsenic	APHA 23rd Ed.,2017,3114-C	**0.2**	mg/L	BDL(MDL:0.01)
15.	Mercury	APHA 23rd Ed.,2017,3112-B	**0.01**	mg/L	BDL(MDL:0.001)
16.	Lead	APHA 23rd Ed.,2017,3111-B, 3-20	**0.1**	mg/L	BDL(MDL:0.01)
17.	Cadmium	APHA 23rd Ed.,2017,3111-B, 3-20	**0.05**	mg/L	BDL(MDL:0.003)
18.	Hexavalent Chromium	APHA 23rd Ed.,2017,3500CrB	**0.1**	mg/L	BDL(MDL:0.05)
19.	Nickel	APHA 23rd Ed.,2017,3111-B, 3-20	**3**	mg/L	BDL(MDL:0.02)
20.	Cyanide	IS 3025(Part 27):1986	**0.2**	mg/L	BDL(MDL:0.05)

Note: BDL= Below Detection Limit, **MDL** = Minimum Detection Limit,
Remarks: --
Opinion & Interpretation (If required):--

Note: This report is subject to Terms and Conditions mentioned overleaf.

Regd. Office : 215, Royal Arcade, Near G.I.D.C.Office, Char Rasta,Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

Annexure 2: Analysis Report of STP Outlet Sept. - 23

UniStar
Environment and Research Labs Pvt. Ltd.

White House
Near G.I.D.C. Office, Char Rasta,
Vapi - 396 195. Gujarat, India.
Phone : +91 260 2433966 / 2425610
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TEST REPORT
(Microbiology)

ULR No.	:	--	**Report No.**	:	**URB/23/09/L-0377**
Name & Address of Customer	:	**M/s. Alkyl Amine Chemicals Limited.** Plot No. D-2/CH/149/2, GIDC Dahej. 2, Tal. – Vagra, Dist. -: Bharuch.	**Date Of Report**	:	**16/09/2023**
			Customer's Ref.	:	--
Sample Details	:	**STP Outlet Water Sample**	**Location**	:	--
Sample Qty.	:	**500ml**	**Appearance**	:	**Colourless**
Sampling Date	:	**11/09/2023**	**Sample Receipt Date**	:	**12/09/2023**
Test Start Date	:	**12/09/2023**	**Test Completion Date**	:	**15/09/023**
Sampled By	:	**Client.**	**Sampling Method**	:	--
UERL Lab ID. No.	:	**23/09/L-0377**			

TEST RESULTS:

DISCIPLINE : Biological Testing			**GROUP: Pollution and Environment**	
Sr. No.	**Test Parameter**	**Test Method**	**Unit of Measurement**	**Results**
1	**Fecal Coliform**	**APHA 23rd Ed.2017,9222-D**	**CFU/100ml**	**26**

Remarks: --

Opinions and Interpretations: (if required)

******* End of Report *******

Checked By
Shweta Rana
(Microbiologist)

Authorized By
Meera D. Patel
(Sr. Microbiologist)

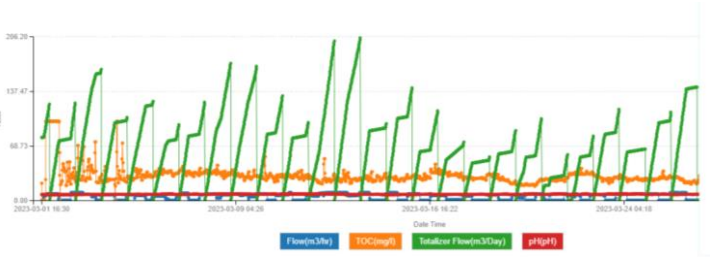
UERL/BIO/F-02/05

Note: This report is subject to Terms and Conditions mentioned overleaf.

Regd. Office : 215, Royal Arcade, Near G.I.D.C.Office, Char Rasta,Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

Annexure 3: Photographs of Water Meter Installed

Annexure 4: Photographs of Online Meter Installed & Sox NOx graph



Annexure 5: Permission letter from GIDC Effluent disposal quantity of 588 KLPD provided

GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION

(A Govt. of Gujarat Undertaking)
Office of the Dy. Executive Engineer (DRG)
1st& 2nd Floor, Narmada Commercial Complex,
Station Road, Panchbatti, Bharuch - 392 001
PH: 242432/244184 FAX: (02642)241902
Email: drg-dahej@gidcgujarat.org

No. GIDC/DEE/DRG/BRH/ 212 Date: 12 /06/2020

To,
M/S. Alkyl Amines Chemicals Ltd.
401-407, Nirmaan Vyapar Kendra,
Plot No. 10, Sector-17,
Vashi-Navi Mumbai-400 703

Sub: Assurance letter to discharge of Total 588.00 klpd of Treated Industrial Effluent by M/s. Alkyl Amines Chemicals Ltd. Plot no. D-II/CH/149/2 at Dahej-II.

Ref: Your Letter no. NIL dated: 11/06/2020

Dear Sir,

Vide letter under reference, you have demanded an assurance letter to discharge of Total quantity of 588.00 Klpd of Treated Industrial Effluent.

In this regard, this office assures that total 588.00 Klpd of Treated Industrial Effluent can be discharged by M/s. Alkyl Amines Chemicals Ltd. Plot no. D-II/CH/149/2 subject to the following conditions:

1. Availability of infrastructure.
2. Availability of spare quantity in design capacity of sewer line. If the effluent quantity exceeds the entitled quantity, you will have to lay the pipeline up to collection well as directed by engineer in charge.
3. You shall have to become a member of Dahej CETP after commissioning of the same.
4. You will have to pay the contribution and other applicable charge for the said quantity of Treated Industrial Effluent.
5. You will have to make your own arrangement to discharge Treated Industrial Effluent in to GIDC's sewer line or in to collection wells directed by GIDC.
6. The Treated Industrial Effluent discharge connection would only be released after the approvals from the competent authority.
7. The Drainage connection shall only be released after the submission of GPCB consent as per approved quantity.

This is for your Information Please.

Thanking you,

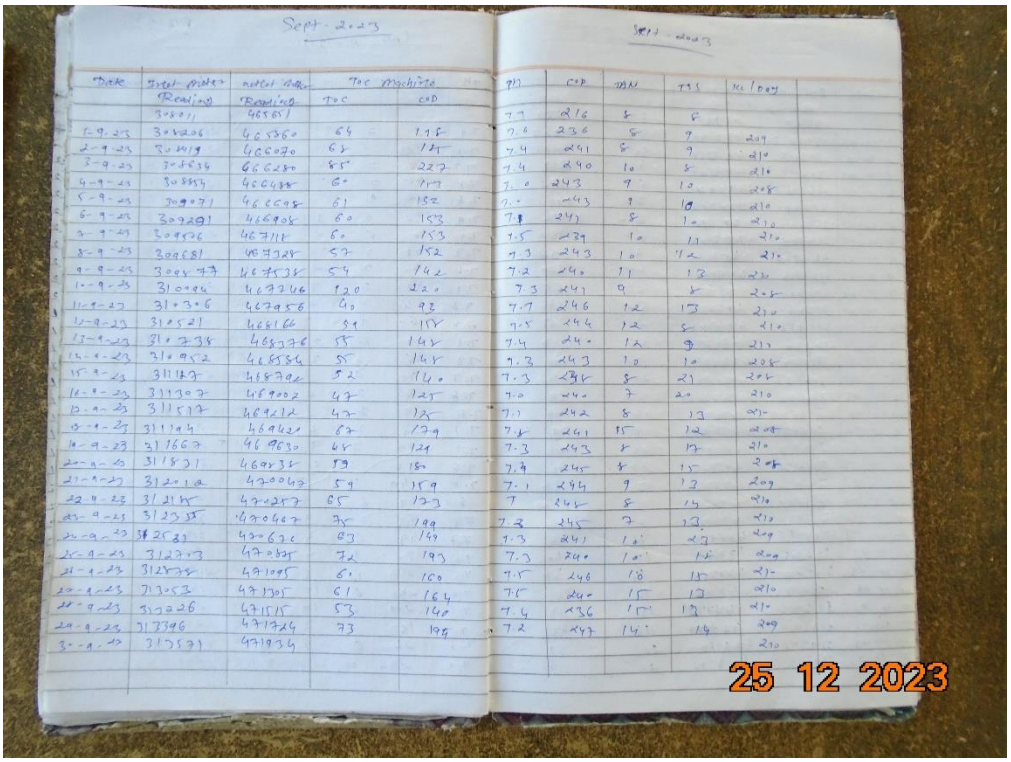
Yours Faithfully,

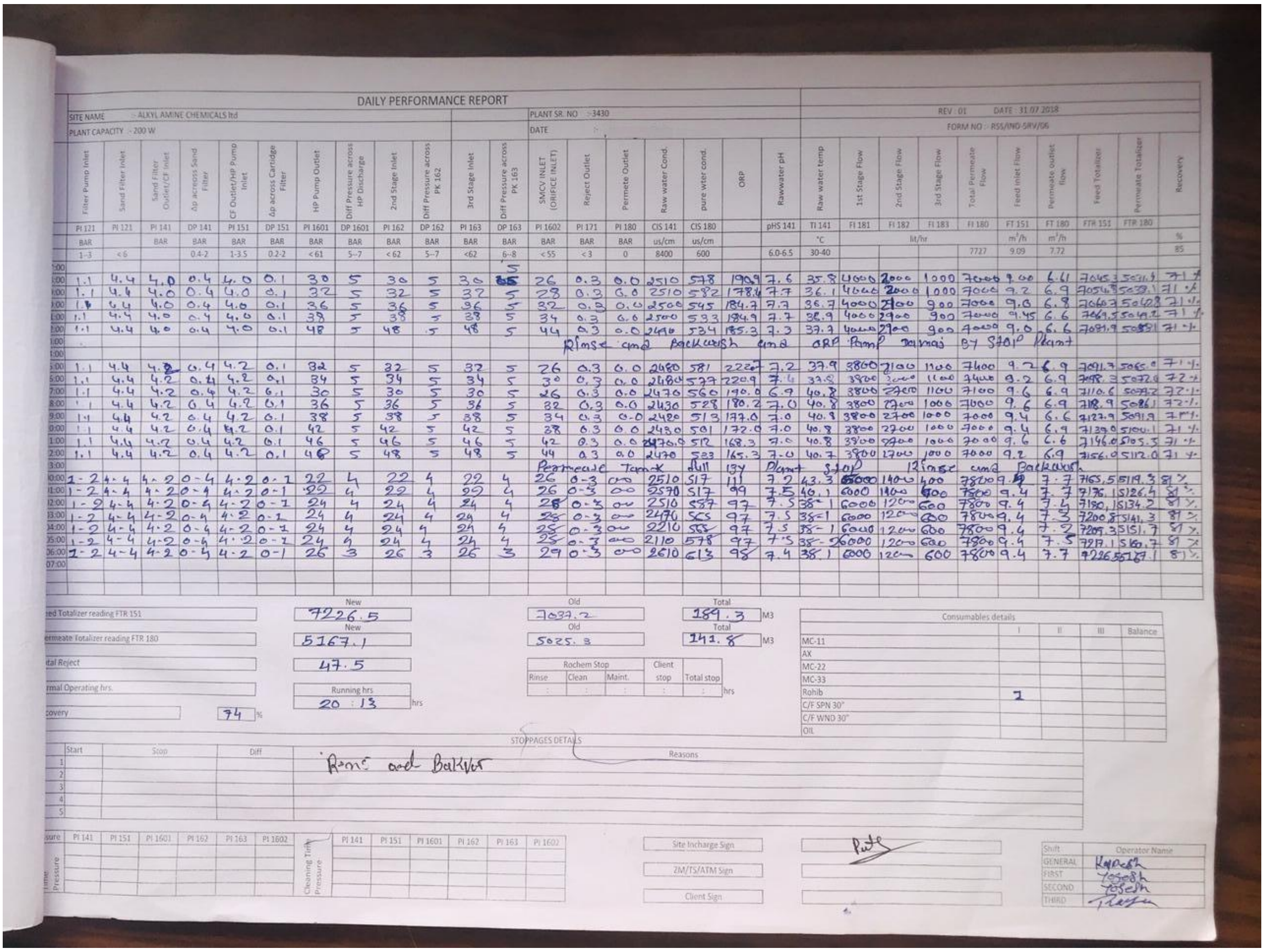
Deputy Executive Engineer (Drg),
GIDC, Bharuch

Annexure 6: Photograph of sowing name of unit and technical relevant details printed on mouth of pipeline opening in to GIDCU/G drain

Annexure 7: Photograph of Flow meter &TOC meter

Annexure 8: Log sheet & record for discharge day to day basis & ETP & RO Plant flow meter reading in logbook.





DAILY PERFORMANCE REPORT

SITE NAME :- ALKYL AMINE CHEMICALS ltd | PLANT SR. NO :-3430 | REV : 01 | DATE : 31.07.2018

PLANT CAPACITY :- 200 W | DATE :- | FORM NO :- RSS/IND-SRV/06

Time	Filter Pump Inlet	Sand Filter Inlet	Sand Filter Outlet/CF Inlet	Δp acreoss Sand Filter	CF Outlet/HP Pump Inlet	Δp across Cartidge Filter	HP Pump Outlet	Diff Pressure across HP Discharge	2nd Stage Inlet	Diff Pressure across PK 162	3rd Stage Inlet	Diff Pressure across PK 163	SMCV INLET (ORIFICE INLET)	Reject Outlet	Permete Outlet	Raw water Cond.	pure wter cond.	ORP	Rawwater pH	Raw water temp	1st Stage Flow	2nd Stage Flow	3rd Stage Flow	Total Permeate Flow	Feed inlet Flow	Permeate outlet flow	Feed Totalizer	Permeate Totalizer	Recovery
	PI 121	PI 121	PI 141	DP 141	PI 151	DP 151	PI 1601	DP 1601	PI 162	DP 162	PI 163	DP 163	PI 1602	PI 171	PI 180	CIS 141	CIS 180		pHS 141	TI 141	FI 181	FI 182	FI 183	FI 180	FT 151	FT 180	FTR 151	FTR 180	
	BAR		BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	us/cm	us/cm			°C	lit/hr				m³/h	m³/h			%
	1-3	< 6		0.4-2	1-3.5	0.2-2	< 61	5--7	< 62	5--7	<62	6--8	< 55	< 3	0	8400	600		6.0-6.5	30-40				7727	9.09	7.72			85
:00												5																	
:00	1.1	4.4	4.0	0.4	4.0	0.1	30	5	30	5	30	5	26	0.3	0.0	2510	578	190.9	7.6	35.8	4000	2000	1000	7000	9.00	6.61	7045.3	5031.9	71 %
:00	1.1	4.4	4.0	0.4	4.0	0.1	32	5	32	5	32	5	28	0.3	0.0	2510	582	178.6	7.7	36.1	4000	2000	1000	7000	9.2	6.9	7054.3	5038.1	71 %
:00	1.1	4.4	4.0	0.4	4.0	0.1	36	5	36	5	36	5	32	0.3	0.0	2500	545	184.7	7.7	36.7	4000	2100	900	7000	9.0	6.8	7060.7	5042.8	71 %
:00	1.1	4.4	4.0	0.4	4.0	0.1	38	5	38	5	38	5	34	0.3	0.0	2500	593	184.9	7.7	36.9	4000	2900	900	7000	9.45	6.6	7069.5	5049.2	71 %
:00	1.1	4.4	4.0	0.4	4.0	0.1	48	5	48	5	48	5	44	0.3	0.0	2490	534	185.3	7.3	37.7	4000	2900	900	7000	9.0	6.6	7081.9	5058.1	71 %
:00														Rinse and Backwash and ORP Pump Damaj By Stop Plant															
:00																													
5:00	1.1	4.4	4.2	0.4	4.2	0.1	32	5	32	5	32	5	26	0.3	0.0	2480	581	222.7	7.2	37.9	3800	2100	1100	7400	9.2	6.9	7091.7	5065.0	71 %
6:00	1.1	4.4	4.2	0.4	4.2	0.1	34	5	34	5	34	5	30	0.3	0.0	2480	577	220.9	7.4	37.8	3800	2000	1100	7400	9.2	6.9	7098.3	5072.0	72 %
7:00	1.1	4.4	4.2	0.4	4.2	0.1	30	5	30	5	30	5	26	0.3	0.0	2470	560	190.0	6.9	40.8	3800	2700	1100	7100	9.6	6.9	7110.6	5079.2	72 %
8:00	1.1	4.4	4.2	0.4	4.2	0.1	36	5	36	5	36	5	32	0.3	0.0	2430	528	180.2	7.0	40.8	3800	2700	1000	7000	9.6	6.9	7118.9	5086.1	72 %
9:00	1.1	4.4	4.2	0.4	4.2	0.1	38	5	38	5	38	5	34	0.3	0.0	2420	513	177.0	7.0	40.8	3800	2700	1000	7000	9.4	6.6	7127.9	5091.9	71 %
0:00	1.1	4.4	4.2	0.4	4.2	0.1	42	5	42	5	42	5	38	0.3	0.0	2430	501	172.0	7.0	40.8	3800	2700	1000	7000	9.4	6.9	7139.0	5100.1	71 %
1:00	1.1	4.4	4.2	0.4	4.2	0.1	46	5	46	5	46	5	42	0.3	0.0	2470.0	512	168.3	7.0	40.8	3800	2700	1000	7000	9.6	6.6	7146.0	5105.3	71 %
2:00	1.1	4.4	4.2	0.4	4.2	0.1	48	5	48	5	48	5	44	0.3	0.0	2470	523	165.3	7.0	40.7	3800	2700	1000	7000	9.2	6.9	7156.0	5112.0	71 %
3:00													Permeate Tank full 134 Plant stop Rinse and Backwash																
00:00	1.2	4.4	4.2	0.4	4.2	0.1	22	4	22	4	22	4	26	0.3	0.0	2510	517	111	7.2	43.3	6000	1400	400	7800	9.4	7.7	7165.5	5119.3	81 %
01:00	1.2	4.4	4.2	0.4	4.2	0.1	22	4	22	4	22	4	26	0.3	0.0	2570	517	99	7.5	40.1	6000	1400	400	7800	9.4	7.7	7176.1	5126.4	81 %
02:00	1.2	4.4	4.2	0.4	4.2	0.1	24	4	24	4	24	4	28	0.3	0.0	2510	587	97	7.5	38.1	6000	1200	600	7800	9.4	7.4	7180.1	5134.2	81 %
03:00	1.2	4.4	4.2	0.4	4.2	0.1	24	4	24	4	24	4	25	0.3	0.0	2470	565	97	7.5	38.1	6000	1200	600	7800	9.4	7.3	7200.8	5141.3	81 %
04:00	1.2	4.4	4.2	0.4	4.2	0.1	24	4	24	4	24	4	25	0.3	0.0	2210	565	97	7.5	38.1	6000	1200	600	7800	9.4	7.2	7209.3	5151.7	81 %
05:00	1.2	4.4	4.2	0.4	4.2	0.1	24	4	24	4	24	4	25	0.3	0.0	2110	578	97	7.5	38.2	6000	1200	600	7800	9.4	7.5	7217.1	5160.7	81 %
06:00	1.2	4.4	4.2	0.4	4.2	0.1	26	3	26	3	26	3	29	0.3	0.0	2610	613	98	7.4	38.1	6000	1200	600	7800	9.4	7.7	7226.5	5167.1	81 %
07:00																													

	New	Old	Total	
Feed Totalizer reading FTR 151	7226.5	7037.2	189.3	M3
Permeate Totalizer reading FTR 180	5167.1	5025.3	141.8	M3
Total Reject	47.5			
Normal Operating hrs.	Running hrs 20 : 13 hrs			
Recovery	74 %			

Rochem Stop Rinse	Clean	Maint.	Client stop	Total stop
:	:	:	:	: hrs

Consumables details

	I	II	III	Balance
MC-11				
AX				
MC-22				
MC-33				
Rohib	2			
C/F SPN 30"				
C/F WND 30"				
OIL				

STOPPAGES DETAILS

	Start	Stop	Diff	Reasons
1				Rinse and Backwash
2				
3				
4				
5				

Pressure	PI 141	PI 151	PI 1601	PI 162	PI 163	PI 1602	Cleaning Time Pressure	PI 141	PI 151	PI 1601	PI 162	PI 163	PI 1602

Site Incharge Sign

ZM/TS/ATM Sign

Client Sign

Shift	Operator Name
GENERAL	Rajesh
FIRST	Yogesh
SECOND	Yogesh
THIRD	[illegible]

Annexure 9: Stack emission reports (Boiler stack)

UniStar
Environment and Research Labs Pvt. Ltd.

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Near G.I.D.C. Office, Char Rasta,
Vapi - 396 195. Gujarat, India.
Phone : +91 260 2433966 / 2425610
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TEST REPORT
(STACK MONITORING)

Test Report No.	**URA/23/09/AACL/S-001**	**Report Issue Date:**	29/09/2023
Service Request form No.	URA/SRF/09/001	**Service Request Date**	04/09/2023
Sample ID No.	URA/ID/S-23/09/001	**Field Data Sheet No.:**	URA/FDS/S-23/09/001
Name & Add. of Customer	**M/s. Alkyl Amines Chemicals Ltd.** Plot No. D-2/CH-149/2, GIDC, DAHEJ – II, Dahej-392130, Ta. Vagra, Dist. Bharuch Gujarat		
Date of Sampling	04/09/2023	Date of Testing	05/09/2023
Stack Sampling Attached to	**Boiler (Old)**		
Air Pollution Control Device	ESP + Water Scrubber		
Fuel Used	**Coal**		

➢ **Details of Instrument Used for Monitoring**

Instrument Id No.	**UERL-D/AIR/SMK/01**		
Inst. Name:	**Stack Monitoring Kit, VSS1**	Serial Number:	**467 DTJ 15**
Cali. Date:	**21/06/2023**	Next Cali. Due On:	**20/06/2024**

➢ **General Stack Observation**

Sr. No.	Description	Unit	Observation
1.	Stack Height	m	70
2.	Stack Diameter	mm	1500
3.	Stack Area	m^2	1.7679
4.	Ambient Temperature	^0C	34
5.	Flue Gas Temperature	^0C	83
6.	Exit Gas Velocity	m/s	10.4
7.	Exit Gas Flow	m^3/h	66190.2

➢ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			**NAME OF GROUP – ATMOSPHERIC POLLUTION**		
Sr. No.	**Test Parameter**	**Unit of measurement**	**Result**	**Permissible Limit**	**Test Method**
1.	Particulate Matter	mg/Nm^3	16	**150**	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	22	**100**	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	39	**50**	IS 11255 (Part 7)

Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

****** End of Report *******

Checked By:
Nikunj D. Patel
(Chemist)

Authorized By:
Jaivik S. Tandel
(Manager - Operations)

Note: This report is subject to Terms and Conditions mentioned overleaf.

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CIN:U73100GJ2007PTC051463

DG stack

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Phone : +91 260 2433966 / 2425610
Email : response@uerl.in Website : www.uerl.in

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TEST REPORT
(STACK MONITORING)

Test Report No.	**URA/23/09/AACL/S-004**	**Report Issue Date:**	29/09/2023
Service Request form No.	URA/SRF/09/008	**Service Request Date**	04/09/2023
Sample ID No.	URA/ID/S-23/09/008	**Field Data Sheet No.:**	URA/FDS/S-23/09/008
Name & Add. of Customer	**M/s. Alkyl Amines Chemicals Ltd.** Plot No. D-2/CH-149/2, GIDC, DAHEJ – II, Dahej-392130, Ta. Vagra, Dist. Bharuch Gujarat		
Date of Sampling	04/09/2023	Date of Testing	05/09/2023
Stack Sampling Attached to	**D.G Set**		
Air Pollution Control Device	--		
Fuel Used	**HSD**		

➢ **Details of Instrument Used for Monitoring**

Instrument Id No.	**UERL-D/AIR/SMK/01**		
Inst. Name:	**Stack Monitoring Kit, VSS1**	Serial Number:	**467 DTJ 15**
Cali. Date:	**21/06/2023**	Next Cali. Due On:	**20/06/2024**

➢ **General Stack Observation**

Sr. No.	Description	Unit	Observation
1.	Stack Height	m	16
2.	Stack Diameter	mm	350
3.	Stack Area	m^2	0.0963
4.	Ambient Temperature	^0C	35
5.	Flue Gas Temperature	^0C	120
6.	Exit Gas Velocity	m/s	9.1
7.	Exit Gas Flow	m^3/h	3154.8

➢ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			**NAME OF GROUP – ATMOSPHERIC POLLUTION**		
Sr. No.	**Test Parameter**	**Unit of measurement**	**Result**	**Permissible Limit**	**Test Method**
1.	Particulate Matter	mg/Nm^3	88	**150**	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	8	**100**	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	38	**50**	IS 11255 (Part 7)

Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

****** End of Report *******

Checked By:
Nikunj D. Patel
(Chemist)

Authorized By:
Jaivik S. Tandel
(Manager - Operations)

Note: This report is subject to Terms and Conditions mentioned overleaf.

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CIN:U73100GJ2007PTC051463

Annexure 10: Process vent emission reports

Storage tank scrubber

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TEST REPORT
(STACK MONITORING)

Test Report No.	**URA/23/09/AACL/S-005**	**Report Issue Date:**	29/09/2023
Service Request form No.	URA/SRF/09/009	**Service Request Date**	05/09/2023
Sample ID No.	URA/ID/S-23/09/009	**Field Data Sheet No.:**	URA/FDS/S-23/09/009
Name & Add. of Customer	**M/s. Alkyl Amines Chemicals Ltd.** Plot No. D-2/CH-149/2, GIDC, DAHEJ – II, Dahej-392130, Ta. Vagra, Dist. Bharuch Gujarat		
Date of Sampling	05/09/2023	Date of Testing	06/09/2023
Stack Sampling Attached to	**Storage Tank Scrubber**		
Air Pollution Control Device	Water Scrubber		
Fuel Used	--		

➢ **Details of Instrument Used for Monitoring**

Instrument Id No.	**UERL/AIR/HS/04**		
Inst. Name:	**Handy Sampler**	Serial Number:	**92-I-19**
Cali. Date:	**03/02/2023**	Next Cali. Due On:	**02/02/2024**

➢ **General Stack Observation**

Sr. No.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Area	m^2	-
3.	Ambient Temperature	^0C	34

➢ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			**NAME OF GROUP – ATMOSPHERIC POLLUTION**		
Sr. No.	**Test Parameter**	**Unit of measurement**	**Result**	**Permissible Limit**	**Test Method**
1.	Ammonia	mg/Nm^3	BDL	**175**	IS:11255(Part-6)
2.	Total Amines	mg/Nm^3	BDL	**Absent**	--

Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

****** End of Report *******

Checked By:
Nikunj D. Patel
(Chemist)

Authorized By:
Jaivik S. Tandel
(Manager - Operations)

Note: This report is subject to Terms and Conditions mentioned overleaf.

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CIN:U73100GJ2007PTC051463

Plant scrubber

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TEST REPORT
(STACK MONITORING)

Test Report No.	**URA/23/09/AACL/S-006**	**Report Issue Date:**	29/09/2023
Service Request form No.	URA/SRF/09/010	**Service Request Date**	05/09/2023
Sample ID No.	URA/ID/S-23/09/010	**Field Data Sheet No.:**	URA/FDS/S-23/09/010
Name & Add. of Customer	**M/s. Alkyl Amines Chemicals Ltd.** Plot No. D-2/CH-149/2, GIDC, DAHEJ – II, Dahej-392130, Ta. Vagra, Dist. Bharuch Gujarat		
Date of Sampling	05/09/2023	Date of Testing	06/09/2023
Stack Sampling Attached to	**Methylamines Plant Scrubber**		
Air Pollution Control Device	Water Scrubber		
Fuel Used	--		

➢ **Details of Instrument Used for Monitoring**

Instrument Id No.	**UERL/AIR/HS/03**		
Inst. Name:	**Handy Sampler**	Serial Number:	**91-I-19**
Cali. Date:	**03/02/2023**	Next Cali. Due On:	**02/02/2024**

➢ **General Stack Observation**

Sr. No.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Area	m^2	-
3.	Ambient Temperature	^0C	34

➢ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			**NAME OF GROUP – ATMOSPHERIC POLLUTION**		
Sr. No.	**Test Parameter**	**Unit of measurement**	**Result**	**Permissible Limit**	**Test Method**
1.	Ammonia	mg/Nm^3	BDL	**175**	IS:11255(Part-6)
2.	Total Amines	mg/Nm^3	BDL	**Absent**	--

Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

****** End of Report *******

Checked By:
Nikunj D. Patel
(Chemist)

Authorized By:
Jaivik S. Tandel
(Manager - Operations)

Note: This report is subject to Terms and Conditions mentioned overleaf.

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CIN:U73100GJ2007PTC051463

Annexure 11: Photographs of air pollution control system to all vents

There is a dedicated Water Scrubbing System for each process unit to completely absorb Ammonia/Amines as the case may be, in the process vents of each process unit.

The Water Scrubbing system consists of 2 absorbers with packings. The process vent is directed to First Absorber where bulk absorption takes place. Gas from First absorber is directed to the Second Absorber where trace levels of pollutants are absorbed with fresh water, thereby effecting complete absorption and no emission of pollutants to atmosphere. Each Water Scrubbing System is designed with comfortable excess margins so that conformation to GPCB norms are achieved.

PESO Area Scrubber

Process Plant Scrubber

Air pollution control for Boiler

Annexure 12: Photographs of Stack monitoring facilities

Annexure 13: Energy consumption details to run air pollution control measures form

(Jun-2023 to Nov-2023)

Electricity Consumption							
Particular	**Unit as per CCA**	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
Production	KWH	1518874	1419419	1419674.6	1426687	1252733	1203956
ETP	KWH	39792	43774	43698	42364	41213	39591
APCM	KWH	57474	55432.8	61047.4	55369	35968	48025

Annexure 14: Photographs of stacks

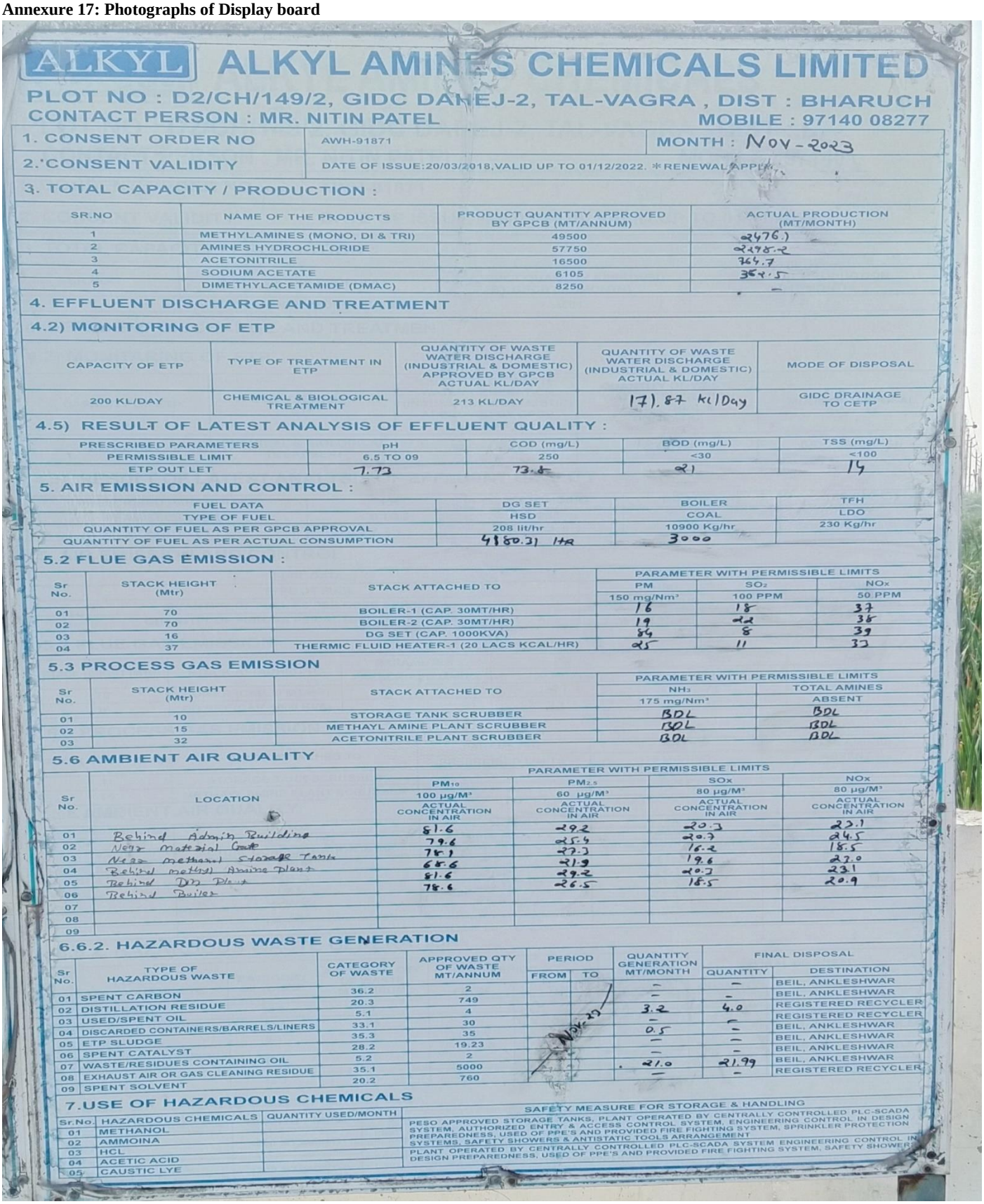
Annexure 15: Hazardous waste generation, disposal details for (Jun-2023 to Nov-2023)

Sr No.	Particular	Name							
1	Hazardous Waste Generation			Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
		Spent carbon	MT/Annum	0.0	0	0.13	0.7	0	0
		Distillation Residue	MT/Annum	15.46	23.5	255.71	223.78	67.26	0
		Used/Spend oil	MT/Annum	0	0	0	0	0	3.2
		Discarded container	MT/Annum	0	0	0	0.48	0	0
		ETP Sludge	MT/Annum	1.1	1	0.5	0.30	0.2	0.5
		Spent Catalyst (From Process)	MT/Annum	0	0	0	0	0	0
		Waste/residue containing Oil	MT/Annum	0.05	0	0	0	0	0
		Exhaust air or Gas cleaning residue	MT/Annum	4	6	7	10	36.87	21
		Spent Catalyst (From MA Plant)	MT/Annum	0	0	0	0	0	0
		Spent solvent	MT/Annum	16.455	11.399	7.114	6.963	21.102	0
2	Hazardous waste Disposal			Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
		Spent carbon	MT/Annum	0	0	1.73	0	0	0
		Distillation Residue	MT/Annum	15.46	23.5	255.71	223.78	67.26	0
		Used/Spend oil	MT/Annum	0	0	0	0	0	4
		Discarded container	MT/Annum	0	0	0	0.48	0	0
		ETP Sludge	MT/Annum	0	0	0	0	0	0
		Spent Catalyst	MT/Annum	0	0	0	0	0	0
		Waste/residue containing Oil	MT/Annum	0	0	0	0	0	0
		Exhaust air or Gas cleaning residue	MT/Annum	0	0	0	0	16.87	21.99
		Spent Catalyst (From MA Plant)	MT/Annum	0	0	0	0	0	0
		Spent solvent	MT/Annum	16.455	11.399	7.114	6.963	21.102	0

FIGURE 1

Annexure 16: Photographs of separate storage for hazardous waste.

Annexure 17: Photographs of Display board



ALKYL AMINES CHEMICALS LIMITED

PLOT NO : D2/CH/149/2, GIDC DAHEJ-2, TAL-VAGRA , DIST : BHARUCH
CONTACT PERSON : MR. NITIN PATEL MOBILE : 97140 08277

1. CONSENT ORDER NO	AWH-91871	MONTH : NOV-2023
2.'CONSENT VALIDITY	DATE OF ISSUE:20/03/2018,VALID UP TO 01/12/2022. *RENEWAL APPLIED	

3. TOTAL CAPACITY / PRODUCTION :

SR.NO	NAME OF THE PRODUCTS	PRODUCT QUANTITY APPROVED BY GPCB (MT/ANNUM)	ACTUAL PRODUCTION (MT/MONTH)
1	METHYLAMINES (MONO, DI & TRI)	49500	2476.1
2	AMINES HYDROCHLORIDE	57750	2478.2
3	ACETONITRILE	16500	364.7
4	SODIUM ACETATE	6105	364.5
5	DIMETHYLACETAMIDE (DMAC)	8250	-

4. EFFLUENT DISCHARGE AND TREATMENT

4.2) MONITORING OF ETP

CAPACITY OF ETP	TYPE OF TREATMENT IN ETP	QUANTITY OF WASTE WATER DISCHARGE (INDUSTRIAL & DOMESTIC) APPROVED BY GPCB ACTUAL KL/DAY	QUANTITY OF WASTE WATER DISCHARGE (INDUSTRIAL & DOMESTIC) ACTUAL KL/DAY	MODE OF DISPOSAL
200 KL/DAY	CHEMICAL & BIOLOGICAL TREATMENT	213 KL/DAY	171.87 KL/Day	GIDC DRAINAGE TO CETP

4.5) RESULT OF LATEST ANALYSIS OF EFFLUENT QUALITY :

PRESCRIBED PARAMETERS	pH	COD (mg/L)	BOD (mg/L)	TSS (mg/L)
PERMISSIBLE LIMIT	6.5 TO 09	250	<30	<100
ETP OUT LET	7.73	73.8	21	14

5. AIR EMISSION AND CONTROL :

FUEL DATA	DG SET	BOILER	TFH
TYPE OF FUEL	HSD	COAL	LDO
QUANTITY OF FUEL AS PER GPCB APPROVAL	208 lit/hr	10900 Kg/hr	230 Kg/hr
QUANTITY OF FUEL AS PER ACTUAL CONSUMPTION	4180.31 LTR	3000	

5.2 FLUE GAS EMISSION :

Sr No.	STACK HEIGHT (Mtr)	STACK ATTACHED TO	PARAMETER WITH PERMISSIBLE LIMITS		
			PM	SO_2	NOx
			150 mg/Nm³	100 PPM	50 PPM
01	70	BOILER-1 (CAP. 30MT/HR)	16	18	37
02	70	BOILER-2 (CAP. 30MT/HR)	19	22	35
03	16	DG SET (CAP. 1000KVA)	84	8	39
04	37	THERMIC FLUID HEATER-1 (20 LACS KCAL/HR)	25	11	33

5.3 PROCESS GAS EMISSION

Sr No.	STACK HEIGHT (Mtr)	STACK ATTACHED TO	PARAMETER WITH PERMISSIBLE LIMITS	
			NH_3	TOTAL AMINES
			175 mg/Nm³	ABSENT
01	10	STORAGE TANK SCRUBBER	BDL	BDL
02	15	METHAYL AMINE PLANT SCRUBBER	BDL	BDL
03	32	ACETONITRILE PLANT SCRUBBER	BDL	BDL

5.6 AMBIENT AIR QUALITY

Sr No.	LOCATION	PARAMETER WITH PERMISSIBLE LIMITS			
		PM_{10}	$PM_{2.5}$	SOx	NOx
		100 µg/M³	60 µg/M³	80 µg/M³	80 µg/M³
		ACTUAL CONCENTRATION IN AIR	ACTUAL CONCENTRATION IN AIR	ACTUAL CONCENTRATION IN AIR	ACTUAL CONCENTRATION IN AIR
01	Behind Admin Building	81.6	29.2	20.7	23.1
02	Near Material Court	79.6	25.4	20.7	24.5
03	Near methanol storage Tank	78.1	27.3	16.2	18.5
04	Behind methyl Amine plant	65.6	21.9	19.6	22.0
05	Behind DM Plant	81.6	29.2	20.7	23.1
06	Behind Boiler	78.6	26.5	18.5	20.9
07					
08					
09					

6.6.2. HAZARDOUS WASTE GENERATION

Sr No.	TYPE OF HAZARDOUS WASTE	CATEGORY OF WASTE	APPROVED QTY OF WASTE MT/ANNUM	PERIOD		QUANTITY GENERATION MT/MONTH	FINAL DISPOSAL	
				FROM	TO		QUANTITY	DESTINATION
01	SPENT CARBON	36.2	2			-	-	BEIL, ANKLESHWAR
02	DISTILLATION RESIDUE	20.3	749			-	-	BEIL, ANKLESHWAR
03	USED/SPENT OIL	5.1	4			3.2	4.0	REGISTERED RECYCLER
04	DISCARDED CONTAINERS/BARRELS/LINERS	33.1	30			-	-	REGISTERED RECYCLER
05	ETP SLUDGE	35.3	35			0.5	-	BEIL, ANKLESHWAR
06	SPENT CATALYST	28.2	19.23			-	-	BEIL, ANKLESHWAR
07	WASTE/RESIDUES CONTAINING OIL	5.2	2			-	-	BEIL, ANKLESHWAR
08	EXHAUST AIR OR GAS CLEANING RESIDUE	35.1	5000			21.0	21.99	BEIL, ANKLESHWAR
09	SPENT SOLVENT	20.2	760			-	-	REGISTERED RECYCLER

7.USE OF HAZARDOUS CHEMICALS

Sr.No.	HAZARDOUS CHEMICALS	QUANTITY USED/MONTH	SAFETY MEASURE FOR STORAGE & HANDLING
01	METHANOL		PESO APPROVED STORAGE TANKS, PLANT OPERATED BY CENTRALLY CONTROLLED PLC-SCADA SYSTEM, AUTHORIZED ENTRY & ACCESS CONTROL SYSTEM, ENGINEERING CONTROL IN DESIGN PREPAREDNESS, USED OF PPE'S AND PROVIDED FIRE FIGHTING SYSTEM, SPRINKLER PROTECTION SYSTEMS, SAFETY SHOWERS & ANTISTATIC TOOLS ARRANGEMENT
02	AMMOINA		
03	HCL		
04	ACETIC ACID		PLANT OPERATED BY CENTRALLY CONTROLLED PLC-SCADA SYSTEM ENGINEERING CONTROL IN DESIGN PREPAREDNESS, USED OF PPE'S AND PROVIDED FIRE FIGHTING SYSTEM, SAFETY SHOWERS
05	CAUSTIC LYE		


ALKYL AMINES

ANNEXURE 18: *AMBIENT AIR MONITORING*

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.:	**URA/23/09/AACL/A-002**	**Report Issue Date**	29/09/2023
Service Request form No.:	URA/SRF/09/002	**Service Request Date**	01/09/2023
Sample ID No.:	URA/ID/A-23/09/002	**Field Data Sheet No.**	URA/FDS/A-23/09/002
Name & Add. of Customer	**M/s. Alkyl Amines Chemicals Ltd.** Plot No. D-2/CH-149/2, GIDC, DAHEJ – II, Dahej-392130, Ta. Vagra, Dist. Bharuch Gujarat		
Dates of Sampling:	01/09/2023	Date of Testing	02/09/2023
Sampling Procedure:	As per CPCB Guidelines		

Location of Sampling / Monitoring:	**Behind Methyl Amine Plant**									
Environmental Conditions during Sampling:	Temp.:	Min.:	27	°C	Max.:	35	°C	**Avg.:**	30	°C
	Rel. Humidity:	Min.:	65	%	Max.:	88	%	**Avg.:**	80	%

➢ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/AACL/02	Respirable Dust Sampler	RDS:SR.No. 160104046	30/08/2023	29/08/2024
UERL/AIR/FPS/AACL/02	Fine Particulate Sampler	FPS:SR.No. 160802033	30/08/2023	29/08/2024

➢ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.94
2.	Flow Rate of PM_{10}	m^3/min	1.08
3.	Volume of Air Sampled for PM_{10}	m^3	1551.3
4.	Volume of Air Sampled for $PM_{2.5}$	m^3	24.0

➢ **Environmental Conditions during testing :**Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➢ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			**NAME OF GROUP – ATMOSPHERIC POLLUTION**		
Sr. No.	**Test Parameter**	**Unit**	**Result**	**Permissible Limit (As per NAAQMS)**	**Test Method**
1.	Particulate Matter PM_{10}	µg/m^3	72.8	**100**	IS: 5182 (Part 23)
2.	Particulate Matter $PM_{2.5}$	µg/m^3	23.7	**60**	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO_2)	µg/m^3	16.3	**80**	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO_2)	µg/m^3	18.8	**80**	IS: 5182 (Part 6)
5.	Ozone	µg/m^3	BDL (MDL: 5.0)	**180**	IS: 5182 (Part 9)
6.	Ammonia (NH_3)	µg/m^3	BDL (MDL: 5.0)	**400**	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m^3	BDL (MDL: 1.0)	**2.0**	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m^3	BDL (MDL: 0.5)	**1.0**	IS: 5182 (Part 22)
9.	Benzene	µg/m^3	BDL (MDL: 1.0)	**5.0**	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BaP)	ng/m^3	BDL (MDL: 0.1)	**1.0**	IS: 5182 (Part 12)
11.	Nickel	ng/m^3	BDL (MDL: 1.0)	**20**	IS: 5182 (Part 26)
12.	Arsenic	ng/m^3	BDL (MDL: 1.0)	**6.0**	IS: 5182 (Part 22)

Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit, **MDL**: Minimum Detection Limit.

****** End of Report *******

Checked By:
Nikunj D. Patel
(Chemist)

Authorized By:
Jaivik S. Tandel
(Manager - Operations)

Note: This report is subject to Terms and Conditions mentioned overleaf.

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Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

ANNEXURE 19: CURRENT CCA (AUTHORIZATION OF THE GPCB FOR COLLECTION/TREATMENT/STORAGE/DISPOSAL OF HAZARDOUS WASTE.) CCA AMENDMENT 01/12/2022

GPCB

GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,
GANDHINAGAR - 382010,
(T) 079-23232152

By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION(CC & A)
CCA NO: AWH- 123845

NO: GPCB/BRCH/CCA-210(3)/ID-47630/ **DT: /03/2023**

In exercise of the power conferred under Section-25of the Water (Prevention and Control of Pollution) Act-1974, under Section-21 of the Air (Prevention and Control of Pollution)Act-1981 and Authorization under rule 6(2) of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986.

And whereas Board has received consolidated application dated **21/10/2022** and inward no. **266615** for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts, Consolidated Consent & Authorization is hereby granted as under.

CONSOLIDATED CONSENT AND AUTHORIZATION:
(Under the provisions / rules of the aforesaid Environmental Acts)

To,
M/s. Alkyl Amine Chemicals Limited,
Plot No: D2/CH/149/2,
GIDC Estate Dahej II,
Tal- Vagra, Dist-Bharuch.

1. **Consent Order No. : AWH-123845 date of Issue 16/01/2023.**
2. The consent under Water Act-1974 for conveying the industrial effluent discharge to GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point, The consent under Air Act-1981 & Authorization under Environment (Protection) Act, 1986 shall be **valid up to 30/11/2027** to operate industrial plant to manufacture following products:

Sr. No.	Products	Quantity(MT/Annum)
1	Methylamines (Mono, Di, Tri)	49500
2	Amine Hydrochloride	57750
3	Acetonitrile	16500
4	Sodium Acetate	6105
5	Dimethylacetamide (DMAC)	8250
Co-Gen Plant:		
6	Co-Gen Plant	1500 KW

SPECIFIC CONDITIONS:

a) **Unit shall comply all the conditions of EC dated 02/07/2021 obtained from SEIAA, Gujarat.**
b) **Unit shall comply undertaking dated 04/01/2023.**
c) Unit shall not carry out any construction activities and production which attracts provisions of Environment Clearance without obtaining EC from competent authority under EIA notification dated 14/09/2006 and amended thereafter.

d) All the efforts shall be made to send hazardous waste for Co- processing/Pre-processing first & thereafter it shall be disposed to TSDF/CHWIF.
e) Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
f) Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.
g) Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.
h) Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.

3. CONDITION UNDER THE WATER ACT:

3.1 The quantity of total water consumption shall not exceed **1070.5 KLD** as per below break up:
a) Industrial: 1016.5 KLD
b) Domestic: 23 KLD
c) Gardening: 31 KLD

3.2 The quantity of total waste water generation shall not exceed **330.7 KLD** as per below break up:
a) Industrial: 313.7 KLD
b) Domestic: 17 KLD

3.3 Mode of disposal of wastewater:
a) Wastewater generated from process and washing (199 KLD) shall be sent to ETP consist of primary, secondary and tertiary treatment units.
b) Wastewater generated from cooling tower, boiler and DM reject (114.7 KLD) shall be sent to RO. 100 KLD RO permeate shall be recycled for industrial purpose.
c) Final total 213.7 KLD wastewater consist of 199 KLD treated wastewater from ETP and 14.7 KLD RO Reject shall be sent to GIDC drainage for deep sea disposal after conforming discharge norms as mentioned at 3.4 below.
d) Domestic wastewater 17 KLD shall be treated in STP. After conforming following discharge norms, treated domestic wastewater shall be used on land for gardening/plantation within the premises.

Parameters	Norms
pH	6.5 to 9
TSS	< 100 mg/l
Fecal Coliform (MPN/100ml)	<1000 MPN/100ml
BOD (3 days 27 degree C)	<30 mg/l

e) Unit shall develop adequate gardening/plantation area within premises for utilization of treated domestic wastewater.

3.4 The quality of industrial effluent shall conform to the following standards (For discharge into GIDC effluent collection system line - Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point).

GPCB

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN, SECTOR 10-A,
GANDHINAGAR - 382010,
(T) 079-23232152

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	pH	6 to 9
2	Temperature	Shall not exceed more than 5°C above receiving water temperature
3	Total Suspended Solids	100 mg/l
4	Oil and Grease	10 mg/l
5	Phenolic Compounds	5 mg/l
6	Cyanide	0.2 mg/l
7	Fluorides	15 mg/l
8	Sulphides	5 mg/l
9	Total Residual Chlorine	1 mg/l
10	Ammonical Nitrogen	50 mg/l
11	Total Kjeldahl Nitrogen	50 mg/l
12	Nitrate Nitrogen	50 mg/l
13	Biochemical Oxygen demand [3 day at 27°C]	100 mg/l
14	Chemical Oxygen Demand	250 mg/l
15	Arsenic	0.2 mg/l
16	Mercury	0.01 mg/l
17	Lead	0.1 mg/l
18	Cadmium	0.05 mg/l
19	Trivelent Chromium	2 mg/l
20	Hexavalent Chromium (as Cr+6)	0.1 mg/l
21	Copper	3 mg/l
22	Zinc	15 mg/l
23	Selenium	0.05 mg/l
24	Nickel	3 mg/l
25	Manganese	2 mg/l
26	Iron	3 mg/l
27	Vanadium	0.2 mg/l
28	Bio assay test	90% survival of fish after 96 hours in 100% effluent

3.5 The effluent conforming to the above standards shall be discharged into GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point.

3.6 Unit shall be required to make storage facilities to store the effluent for at least 48 hours by providing acid proof brick lined impervious tanks/HDPE tanks.

3.7 Unit shall implement & follow communication plan so that respected work can be done in minimum response time in case of emergencies.

3.8 Unit shall provide online monitoring system for pH, TOC and other parameters with recorder & magnetic flow meters for flow measurement of treated wastewater, if applicable as per CPCB norms.

3.9 Unit shall have only one authorized outlet over the ground with full access from outside the premises.

ANNEXURE 20*: DESCRIPTION OF ETP*

Current ETP is operational for 271.1 KLD based on the existing CCA.

The process wastewater and utilities blow down will be treated in ETP and treated wastewater will be discharged into GIDC drain matching with CPCB standards.

Table 1: Quantity and Quality of Process Wastewater

Sr. No.	Process Stream	Quantity KLD	Effluent Characteristics (mg/l)				
			pH	COD	BOD	TDS	Total Ammonical nitrogen
1	Methylamines	156.75	9.5-10	1500	400	1000	200
2	DMAPA/ Tertiary Amines	1.1	9-9.5	2000	350	1000	150
3	Acetonitrile	20.44	8.5-9	3000	500	1000	150
4	N-Methyl Pyrollidone (NMP)/ N- Ethyl Pyrollidone (NEP)	25.02	9.5-10	1500	400	1000	200
5	Amine Hydrochloride	5.4	7-8	2000	600	2000	200

Note: All values are in mg/l except pH.

Details of ETP Units with Sizing

Table 2: Details of ETP Units with sizing

Sr. No.	Name of Unit	No of Unit	Volume (m3)
1	Inlet Holding Tank	1	540
2	Equalization cum Neutralization Tanks	2	270
3	Primary Clarifier	1	64
4	Aeration Tank	1	720
5	Secondary Clarifier	1	64
6	Intermediate Collection Tank	1	84
7	Pressure Sand Filter	1	25
8	Activated Carbon Filter	1	25
9	Sludge Collection Sump	1	6
10	Filter Press	1	-
11	Final Treated Effluent Outlet Tank	1	720

ETP Process Description:

Capacity of ETP: 500 KLD

Primary Treatment

Effluent will be collected into the holding tank. Two days storage will be provided for holding tank to store effluent coming from the entire unit. From the holding tank effluent passes to equalization cum neutralization tank for proper mixing of effluent. Mixing will be carried out using either air or agitator and this will ensure constant load onto the further treatment units. pH adjustment using lime and alum is proposed in a batch wise mode. Polyelectrolyte also will be added for agglomeration and flocculation. Neutralized effluent will be pumped into clarifier to enhance settling speed of flocks formed in equalization cum neutralization tank. Settled chemical sludge will be transferred to sludge drying bed under gravity and clear effluent from primary clarifiers is transferred into aeration tank for biological treatment.

Secondary Treatment

In biological treatment one stage aerobic biological systems will be provided for removal of organic cod and bod. Biologically treated effluent will be transferred to secondary clarifier via gravity. The sludge settled at bottom shall be recirculated back in biological system and excess sludge shall be taken into sludge drying bed. Overflow of clarifier will be taken to intermediate collection tank where utilities blow down water and washing effluent will be added. Disinfection will be done using NaOCl in intermediate collection tank.

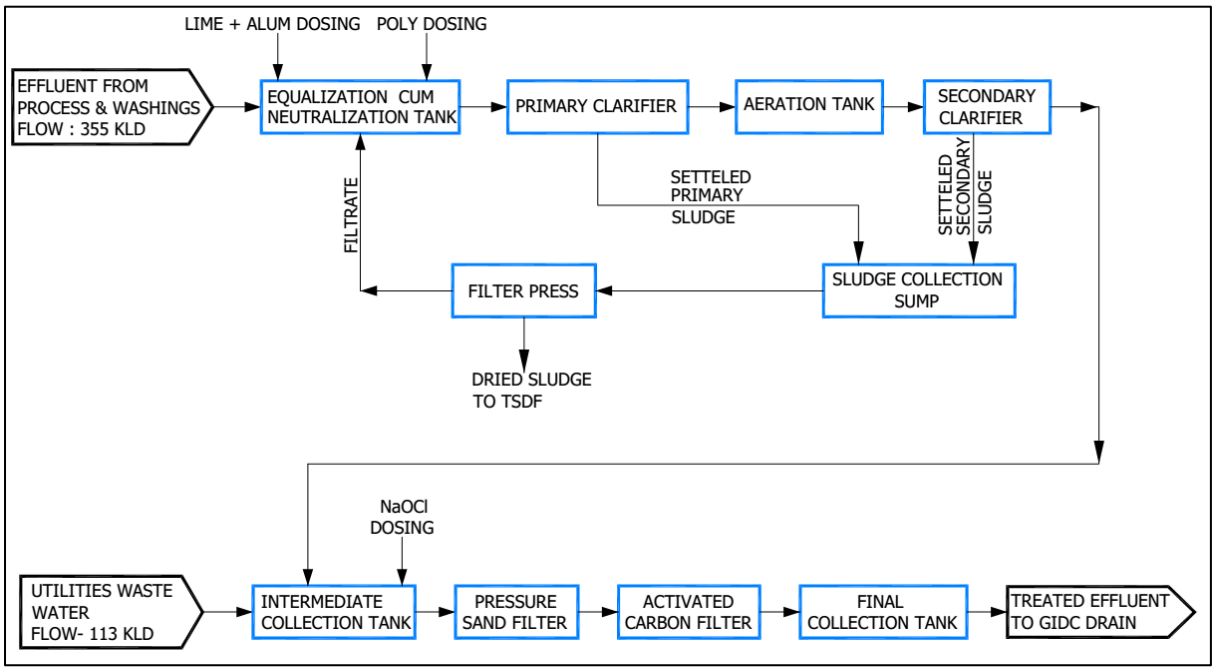
Tertiary Treatment

Tertiary treatment comprises of pressure send filter and carbon filtration. Disinfected effluent from intermediate collection tank will be pumped to pressure sand filter & activated carbon filter. In PSF residual suspended solids will be removed while in ACF color and odour will be removed. Back wash of PSF and ACF will be taken to ETP for further treatment. The treated water from ACF will be taken into final collection tank and it will be disposed into GIDC drain after achieving required norms for disposal.

Sludge Handling Unit

Primary chemical sludge from primary clarifier and secondary biological sludge from secondary clarifier will be taken to sludge collection sump and then to filter press for further drying of sludge. Dried sludge will be packed in HDPE/LDPE bags & will be stored in hazardous waste storage area for final disposal in TSDF. Leachate generated will be recycled back into equalization cum neutralization tank for further treatment.

Process Block Diagram:



Percentage Reduction in ETPs

The stage wise reduction of parameters in effluent treatment plant is given in below table.

Table 3: Percentage reduction in ETP

S. No.	Description	Parameters					
		COD		BOD		SS	
		Value	% Reduction	Value	% Reduction	Value	% Reduction
1	Equalization Tank	2800	-	1000	-	100	-
2	Primary Outlet	1800	36	800	20	70	30
2	Secondary Outlet	150	92	45	94	60	14
3	Final ETP Outlet	92	39	27	40	55	8

Adequacy of the Effluent Treatment Units

The adequacy of the proposed effluent treatment units is presented as below.

Table 4: Adequacy of Proposed Effluent Treatment Units

S. No	Units	Nos.	Size of Units/Capacity			Volume	Total Volume	Design Flow	Total HRT		
			L	B	H						
			m	m	M	m3	m3	m3/d	Min	h	day
1	Holding Tank	1	18	10	3	540	540	500	-	25.92	-
2	Equalization cum Neutralization Tank	1	9	10	3	270	270	500	-	12.96	-
3	Primary Clarifier	1	4.5 m dia.		4	64	64	500		3.07	
4	Aeration Tank	1	15	12	4	720	720	500	-	-	1.44
5	Secondary Clarifier	1	4.5 m dia.		4	64	64	500	-	3.07	-
6	Intermediate Collection tank	1	5.3	5.3	3	84	84	500	-	4.04	-
7	Pressure Sand Filter	1	25 m3			25	25	500	-	-	-
8	Activated Carbon Filter	1	25 m3			25	25	500	-	-	-
9	Sludge Collection Sump	1	2	2	1.5	6	6	500	-	-	-
10	Final Treated Water Tank	1	15	12	4	720	720	500	-	-	1.44

Table 5: Percentage reduction in ETP

S. No.	Description	Parameters					
		COD		BOD		SS	
		Value	% Reduction	Value	% Reduction	Value	% Reduction
1	Equalization Tank	2800	-	1000	-	100	-
2	Primary Outlet	1800	36	800	20	70	30
2	Secondary Outlet	150	92	45	94	60	14
3	Final ETP Outlet	92	39	27	40	55	8

The domestic sewage will be treated in STP at site and treated sewage will be reused in gardening. Sufficient land will be proposed for gardening to tackle treated sewage from the STP.

Wastewater Characteristics of Process, Utilities and Domestic Sewage

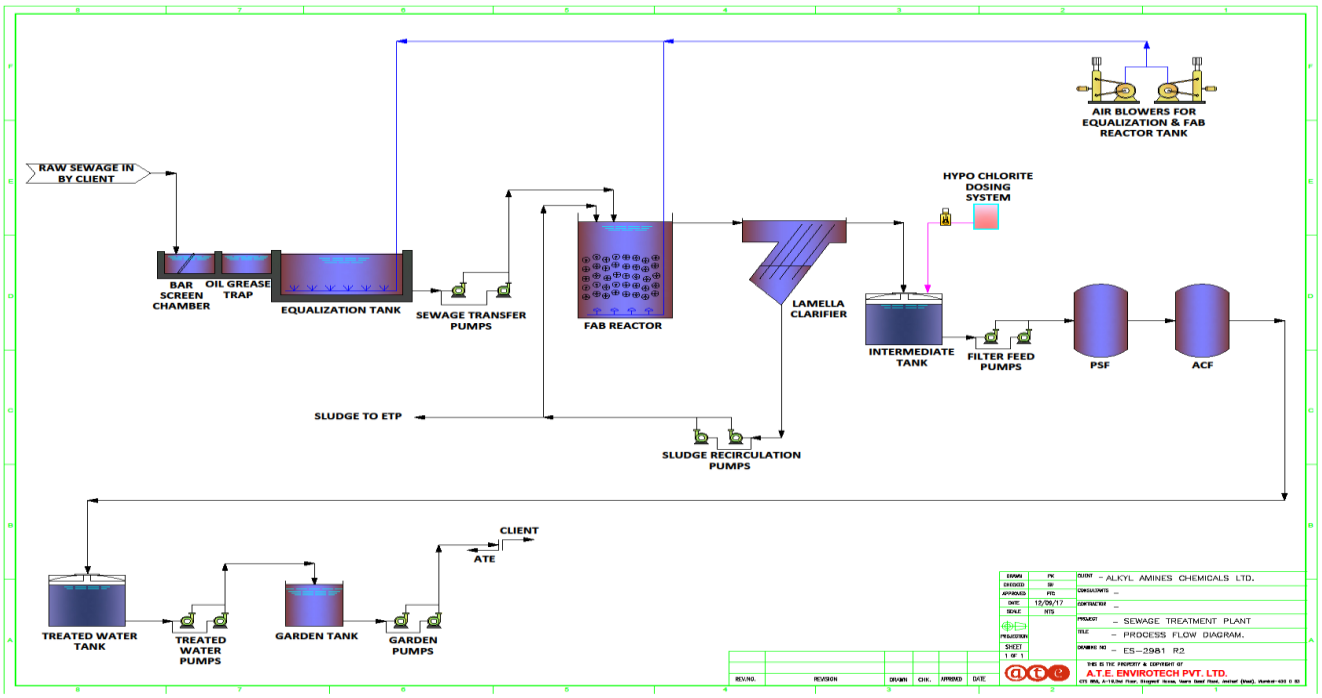
Table 6: wastewater characteristics of process, utilities and domestic sewage

Sr. No.	Parameters	Unit	Process/ Washing	Boiler Blow Down	Cooling Tower Blow Down	Domestic Sewage
1	Flow	cu.m/day	355	15	82	17
2	COD	mg/l	3500	150	200	600
3	BOD	mg/l	1200	60	80	300
4	TDS	mg/l	1000	3000	2500	1200
5	SS	mg/l	100	100	50	200
6	O & G	mg/l	10	2	2	10

STP Process Description:

Capacity of STP: 20 KLD

STP Flow Diagram:



STP Photographs:

Storage for treated water-STP

Lamella clarifier

Collection tanks and FAB reactor–STP

Process Description:

- **Primary Treatment:**
  - **Screening & Oil Removal:**

Raw effluent is first screened in order to remove large floating matter that otherwise may clog the pumps. A manual screen of 10 mm screen size is installed in screen chamber (RCC) prior equalization tank. Screened effluent enters the oil & grease trap. A belt type oil skimmer is installed in oil trap to remove free floating oil. Effluent from oil trap enters in the equalization tank.

Acid dosing system consisting of dosing pump & tank is provided for inlet pH correction.

- **Equalization:**

Equalization tank is provided to buffer peak flows/ loads and emergency downtimes. The tank is in RCC construction and is designed for a retention time of 24 hours. Coarse bubble air distribution grid is provided to prevent the settlement of solids & septicity in the tank. The grid is made of PVC pipes. Air is supplied by twin lobe air cooled blowers. Provision of acid dosing is kept for effluent neutralization. Neutralization tank is fill and draw type to ensure for Ph Correction. Level switch is provided in the equalization tank. The effluent pumps are interlocked with the level switch and trip at the low level. Pump start-up is at predefined level.

- **Static Mixer with Flocculator:**

In order to ensure proper mixing of chemicals, static mixer is provided. Chemicals are dosed using coagulant and poly dosing system comprising of dosing tank, agitator, dosing pump. The chemically rich effluent is then enter into the baffled wall Flocculator. The flocculation tank imparts gentle turbulence into the effluent that accelerators floc formation.

In a baffled wall Flocculator, the mixing energy for flocculation is obtained by the turbulence due to change in direction of flow. The Flocculator is characterized by the plug flow model. The retention time is almost uniform and mixing energy is constant in all sections.

- **Primary Lamella Clarification:**

Primary lamella clarifier shall be in RCC construction. Lamella plates shall be made of FRP. Sludge recirculation pump for the clarifier shall be transferred to anoxic tank.

- **Secondary Treatment:**
  - **Anoxic Treatment:**

Aerobic biological process, used for treatment of sewage also result in conversion of ammonia contained in the effluent to nitrate. Denitrification is the process of conversion of these nitrates to nitrogen. Denitrification requires anoxic conditions to encourage the appropriate biological communities to form. Since it is a reduction of nitrate to nitrogen gas, an electron donor is needed. This is derived from the organic matter (from raw effluent flowing into the tank). Denitrification generally proceeds through some combination of the following intermediates form:

$NO_3 \longrightarrow NO_2 \longrightarrow NO + N_2O \longrightarrow N2\ (g)$

Anoxic tank is a vertical tank in RCC construction. The denitrification reaction receives the effluent from following sources:

1. Neutralization pit
2. Recycle from outlet of the aeration tank
3. Sludge from secondary clarifier

A part of effluent from the aeration tank is re-circulated back to the denitrification reactor by recirculation pumps (1w + 1s). The pumps are horizontal, centrifugal, surface pumps with non-clogging impeller. The pump capacity is 10 times the capacity of effluent treatment plant.

Anoxic condition in this tank is maintained by provision of slow speed mixer. This mixer is designed such that the bacterial population in the tank is kept in suspension but there is no ingress of air that may increase DO level of the tank maintaining anoxic condition.

Effluent from anoxic tank is sent to aeration tank for further treatment.

- **Aerobic Treatment:**

Second stage of biological treatment is aerobic in nature and take place in aeration tank. The aeration tank is in RCC construction. The aeration tank is designed to sustain an aerobic bacterial population of about 2500-3000 ppm (MLSS).

Air is provided through fine bubbles diffuser aeration system. Air blowers (one working one stand by), twin lobe type are provided for air supply. Imported micro bubble diffuser are incorporated in the system. These diffusers have very high oxygen transfer efficiency.

- **Secondary Clarifier:**

Clarifier is circular type and in RCC construction. Centrally driven mechanism is in MSEP construction. Sludge recirculation pumps for clarifier are re-circulating the sludge back to the aeration tank. Excess sludge generated is discharged to the sludge holding tank.

Overflow from the secondary clarifier is sent to the tertiary system for further treatment.

- **Tertiary Treatment:**

Effluent is then be received in filter feed tank in RCC construction. The effluent is pumped to MGF-ACF through filter feed pumps for filtration.

- **Multi Grade Filter:**

The multi grade filter is provided for removal of suspended solids carried over from the clarifier. The multi grade filter is made of MSEP vertical vessel. The filter is backwashed at pre-decided intervals or when the pressure drop exceeds the desired limit. During backwash, the flow of water through the filter is reversed, which removes the dirt accumulated in the filter. The unit is isolated for backwash, when the pressure drop across the bed increases than specified limit or quality of filtered water deteriorates, whichever is earlier.

- **Activated Carbon Filter:**

The activated carbon filter is provided for removal of color, odour and free chlorine. The activated carbon filter is made of MSEP vertical vessel. The filter is backwashed at pre-decided intervals or when the pressure drop exceeds the desired limit. During backwash, the flow of water through the filter is reversed, which removes the dirt accumulated in the filter. The unit is isolated for backwash, when the pressure drop across the bed increases than specified limit or quality of filtered water deteriorates, whichever is earlier.

Treated effluent is collected in treated effluent tank.

- **Disinfection System:**

Sodium hypochlorite is dosed in treated effluent tank. A sodium hypochlorite dosing system, comprising metering pump and dosing tank is provided.

ANNEXURE 23*: ELECTRICITY BILL FOR THE MONTH OF NOV-2023*

Dakshin Gujarat Vij Company Ltd.

Reg. Off: Nana varachha Road, Nr. Kapodra Char Rasta, Surat-395006

CIN: U40102GJ2003SGC042909 GSTIN:24AABCD8912C1Z3 PAN NO: AABCD8912C Website:http://www.dgvcl.com

HT BILL FOR THE MONTH OF :NOV-2023 | **By RPAD/Hand Delivery No.**

MS ALKYL AMINES CHEMICALS LTD
PLOT NO D-2/CH/149/2 GIDC DAHEJ 2 TAL VAGRA DIST BHARUCH DAHEJ

OFFICE OF EXEC. ENGINEER
DGVCL Division Office
Date: 01-12-2023

SCAN to PAY

Division Office Email id:					Phone No:		Cons. GSTIN:	
Consumer No:	**Tarrif**	**Contract Demand**	**85% Contract Demand**	**Actual Max. Demand**	**Billing Demand**	**Excess Cont. DMD**	**SD Cash**	**Bank Guarantee**
63034	HTP-I	4000	3400	3114	3400		24676125	0.00
Supp Voltage	**KWH**	**KVAH**	**KVARH**	**Avg PF**	**MF**	**Actual Max DMD during day**		**PP Indicator**
66	1271808	1306116	279396	.973	36000			
Meter No:	**Make**	**CTPT Make**	**CTPT Srno**	**CT Ratio**	**PT Ratio**	**Meter Constant**	**MC/MF/CD/TF**	**Meter Status**
GJ6102A	SECURE-APEX-150		36000					Normal
	KWH	**KVAH**	**KVARH**	**AMD**	**PEAK HR**	**NIGHT HR**	**AMD DAY**	**AMD NIGHT**
Current R	498.728	508.517	90.602		165.901	166.416		
Previous R	463.4	472.236	82.841		154.049	154.625		
Difference	35.328	36.281	7.761		11.852	11.791		
Diff*MF	1271808	1306116	279396		426672	424476		
Old Met Cons.								
Enhanced Unit								

CONSUMPTION DETAILS

A.Total Units	B.Night Units	C.TOU	D.1/3 Of Units in A	E.Night Concession Units	F.Connection Date	G.Consumer Type
1271808	424476	426672	423936	424476	11-01-2018	

H.Recoverable SD	I.Seasonal Status	J.ED Exemtion Upto	K.Details of Adjustments	CHQ DISHONOUR DT
		23-03-2023		

CALCULATION OF CHARGES

Demand Charges	DMD in KVA	Rate per KVA	Amount Rs					
1st 500 KVA	500	150	75000	**Electricity Duty**	**KWH**	**Consumption Charges**	**ED Rate**	**Amount**	**Exempted Amount**
2nd 500 KVA	500	260	130000		1271808	11150571	.15	1672585.65	0
Next	2400	475	1140000						
Excess DMD									
Tot Demand	3400		1345000	**SET OFF DETAILS**				
	KWH	**Rate**	**Amount**	**Total->**		**Wind Energy**	**CPP**	**Open Access**
Energy Charges	1271808	4.3	5468774.40	**Units**		0	0	0
Night Rebate	424476	.43	182524.68	**Amount**				
				Adj (Credit)		0	0	0
Fuel charge	1271808	3.35	4260556.80	**Adj (Debit)**		0		0
PF Rebate	5468774.4	-1.15%	-62890.91					
EHV Rebate	5468774.40	0.75	-41015.81					
TOU	426672	0.85	362671.20	**AMG Charges**				
GT Charges	1271808	1.50	0.00	**CGST:**			**SGST:**	
Tot Consumption Charge			11150571.00					

SUMMARY OF CHARGES

Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	GT Charges	Tot Consumption Charge
1345000.00	5468774.40	4260556.80	-62890.91	182524.68	-41015.81	362671.20	0.00	11150571.00

Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges	Parallel Operation Charges	Current MOnth's Bill	Outstanding Arrears
1672585.65	0.00				12823156.65	13547.79

Delayed Payment Charges	Adv.Payment / Adjust.	Net Payable	TCS	Total Payable	PREV.BILL TCS Cr	Reading Date	Bill Date	Due Date	Freeze Amount
0.00	-1327515.55	11509188.89	0.00	11509188.89	0.00	01-12-2023	01-12-2023	11-12-2023	0.00

Amount in Words: One Crores Fifteen Lakhs Nine Thousand One Hundred And Eighty Eight And Eighty Nine Paise Only

Msg:US 194Q OF IT ACT, TDS @0.1% IS APPLICABLE MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change

EXECUTIVE ENGINEER
BHARUCH O&M

This is a system generated bill. Hence no signature required.

- **Power consumption Log sheet**

ALKYL AMINES CHEMICALS LIMITED

Dahej

DGVCL POWER READING

DOC NO.: FORM/ELE/D/01

Issue No.: 01 Date: 01.01.2022

Rev. No.: 00 Date: 01.01.2022

Page No. 01 of 01

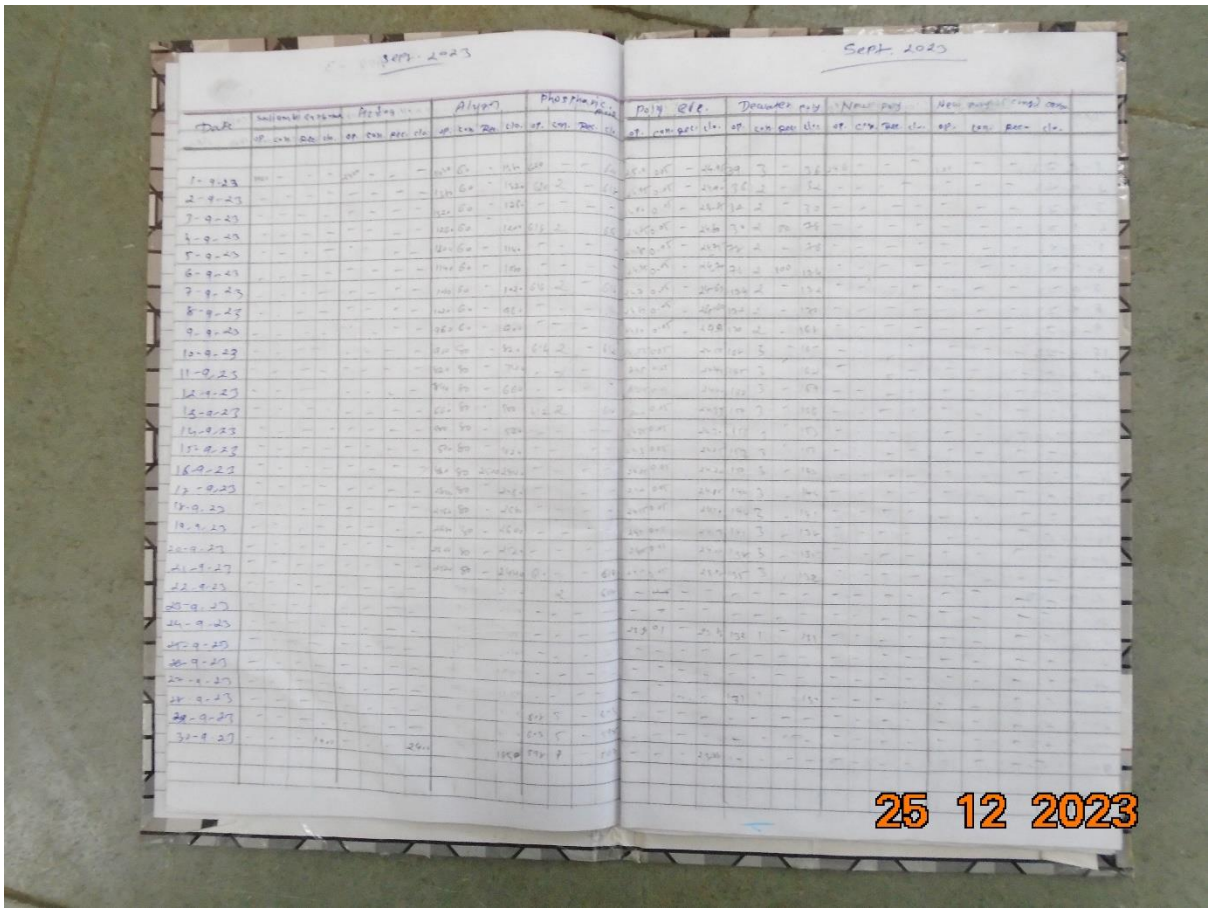
Prepared By | Reviewed By | Approved By

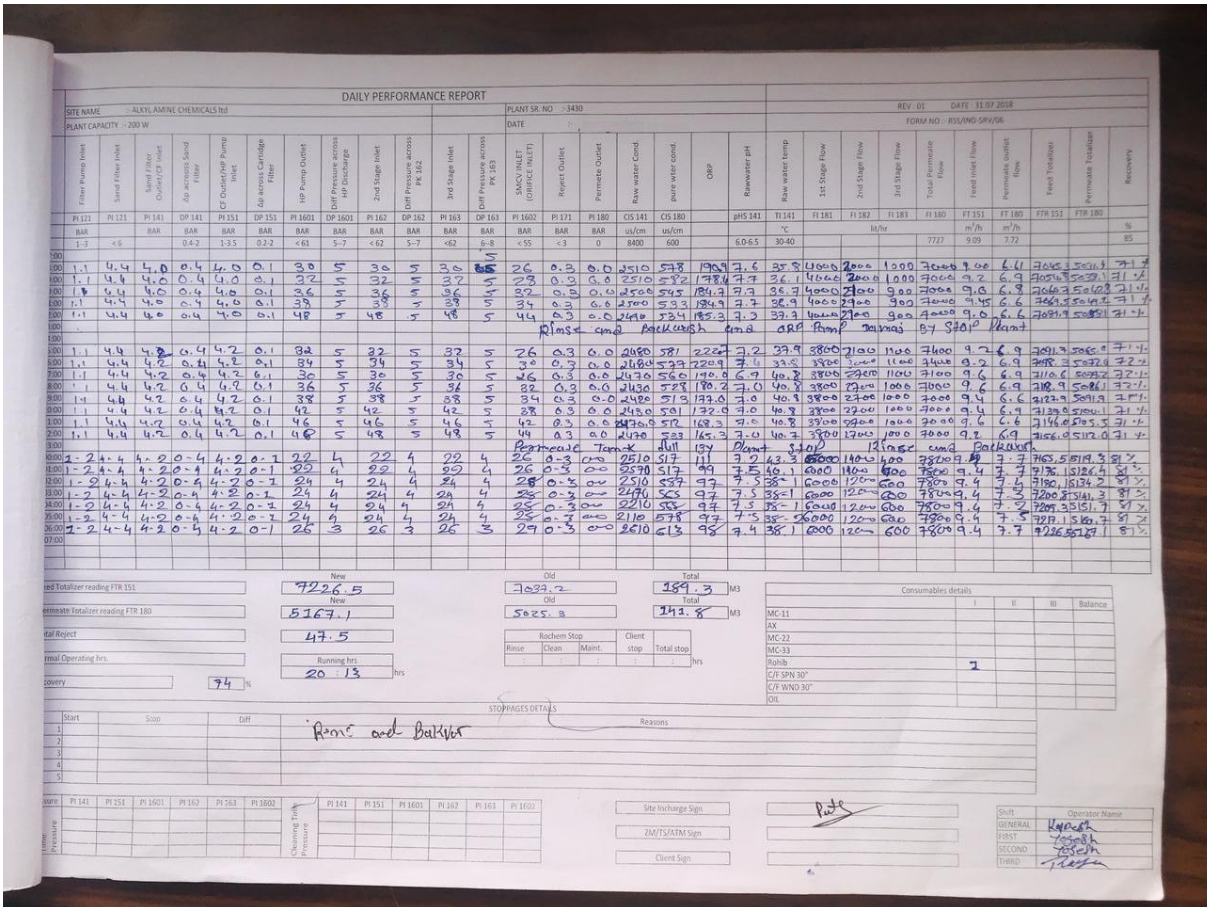
Alkyl Amines Chemicals Limited,Dahej

DGVCL READINGS – NOV - 2023 Consumer No. 63034

KWH M. READ	KVAH M. READ	KVARH M. READ	H1, MD (00-24HRS), KVA APPRENT IMPORT	MD (00-24HRS), KVA APPRENT IMPORT	RATE REQ.01, KWH ACTIVE IMPORT	RATE REQ.02, KWH ACTIVE IMPORT	HT VOLTAGE	HT AMP.	PF	Prepared By	REVIEWED BY
463.659	472.525	83.024	0.0800 2804	0.0645516	154.017	154.739	66.81	0.0814	0.989	Nishit	ML
[illegible]	472.610	82.841	0.0803616	0.0803616	154.144	154.863	67.01	0.0670	0.840	Dixit	ML
[illegible]	472.911	82.842	0.0803616	0.0243700	154.246	154.970	66.90	0.0664	0.969	Rishabh.	ML
[illegible]	473.513	82.872	0.0735404	0.0241550	154.638	155.259	66.70	0.1740	0.999	Chirag	ML
[illegible]	474.362	83.044	0.0803616	0.0641584	155.688	155.551	67.44	0.2238	0.993	Nishit	ML
[illegible]	475.726	83.113	0.0802616	0.0647802	155.195	155.996	66.79	0.2934	0.986	Rishabh.	ML
[illegible]	477.210	83.484	0.0803616	0.0686836	155.652	156.504	66.39	0.3629	0.972	Rishabh.	ML
[illegible]	478.540	83.159	0.0803616	0.0768800	156.183	157.029	66.40	0.3478	0.975	Vishal	ML
[illegible]	480.675	84.452	0.0803616	0.0768800	156.746	157.52	66.54	0.3434	0.965	Dixit	ML
[illegible]	482.295	85.190	0.0803616	0.0768800	157.738	156.038	66.64	0.3589	0.968	Nishit	[illegible]
[illegible]	484.045	85.395	0.0803616	0.0771840	157.820	156.622	67.42	0.3244	0.966	Vishal	ML
[illegible]	485.458	85.710	0.0803616	0.0772840	158.450	158.252	69.14	0.3138	0.990	Rakesh	ML
[illegible]	487.160	86.116	0.0803616	0.0865020	158.303	159.535	69.62	0.3072	0.977	Chirag	ML
[illegible]	488.752	86.507	0.0803616	0.0865020	159.106	160.013	69.28	0.3088	0.977	Neeraj	ML
[illegible]	490.409	86.946	0.0803616	0.0865020	159.977	160.517	68.94	0.3469	0.975	Neeraj	ML
[illegible]	492.037	87.283	0.0803616	0.0865020	160.494	161.056	67.57	0.3252	0.991	Vishal	ML
[illegible]	493.637	87.602	0.0803616	0.0865020	160.983	161.575	67.44	0.3379	0.988	Vishal	ML
[illegible]	495.232	87.912	0.0803616	0.0865020	161.516	162.050	66.54	0.3247	0.990	Vishal	ML
[illegible]	496.834	88.240	0.0803616	0.0865020	162.036	162.609	66.44	0.3002	0.983	Nishit	ML
[illegible]	498.139	88.475	0.0803616	0.0865020	162.458	163.030	67.14	0.2474	0.992	Chirag	ML
[illegible]	499.779	88.647	0.0803616	0.0865020	162.843	163.424	66.63	0.1612	0.971	Vishal	ML
[illegible]	499.505	88.647	0.0805616	0.0865020	162.936	163.564	66.87	0.0505	0.486	Nishit	ML
[illegible]	499.934	88.652	0.0805516	0.0865020	163.687	163.761	66.05	0.0415	0.397	Vishal	ML
[illegible]	501.901	88.945	0.0805616	0.0865020	163.482	164.123	66.50	0.2489	0.977	Vishal	ML
[illegible]	502.136	89.123	0.0805616	0.0865020	163.775	164.485	66.19	0.2264	0.990	Vishal	ML
[illegible]	503.[illegible]	89.362	0.0805616	0.0865020	164.121	164.845	67.13	0.2380	0.961	Vishal	ML
[illegible]	504.374	89.618	0.0805516	0.0865020	164.516	165.257	67.27	0.2336	0.974	Vishal	ML
[illegible]	505.541	89.892	0.0803616	0.0865020	164.849	165.582	66.93	0.2495	0.983	Rajnikant	ML
[illegible]	506.535	90.147	0.0803616	0.0865020	165.205	165.979	66.64	0.2219	0.981	Vishal	ML
[illegible]	507.741	90.416	0.0803616	0.0865020	165.570	166.324	66.46	0.2446	0.970	Vishal	ML

ANNEXURE 24*: LOG SHEET FOR CHEMICAL CONSUMPTION SEPT-2023*





DAILY PERFORMANCE REPORT

SITE NAME : ALKYL AMINE CHEMICALS ltd
PLANT CAPACITY : 200 W
PLANT SR. NO : 3430
DATE :
REV : 01 DATE : 31.07.2018
FORM NO : RSS/IND-SRV/06

Time	Filter Pump Inlet	Sand Filter Inlet	Sand Filter Outlet/CF Inlet	Δp across Sand Filter	CF Outlet/HP Pump Inlet	Δp across Cartridge Filter	HP Pump Outlet	Diff Pressure across HP Discharge	2nd Stage Inlet	Diff Pressure across PK 162	3rd Stage Inlet	Diff Pressure across PK 163	SMCV INLET (ORIFICE INLET)	Reject Outlet	Permete Outlet	Raw water Cond.	pure wter cond.	ORP	Rawwater pH	Raw water temp	1st Stage Flow	2nd Stage Flow	3rd Stage Flow	Total Permeate Flow	Feed Inlet Flow	Permeate outlet flow	Feed Totalizer	Permeate Totalizer	Recovery
	PI 121	PI 121	PI 141	DP 141	PI 151	DP 151	PI 1601	DP 1601	PI 162	DP 162	PI 163	DP 163	PI 1602	PI 171	PI 180	CIS 141	CIS 180		pHS 141	TI 141	FI 181	FI 182	FI 183	FI 180	FT 151	FT 180	FTR 151	FTR 180	
	BAR		BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	BAR	us/cm	us/cm			°C	lit/hr				m³/h	m³/h			%
	1-3	<6		0.4-2	1-3.5	0.2-2	<61	5-7	<62	5-7	<62	6-8	<55	<3	0	8400	600		6.0-6.5	30-40				7727	9.09	7.72			85
07:00												5																	
08:00	1.1	4.4	4.0	0.4	4.0	0.1	30	5	30	5	30	5	26	0.3	0.0	2510	578	190.9	7.6	35.8	4000	2000	1000	7000	9.00	6.61	7045.3	5031.4	71 %
09:00	1.1	4.4	4.0	0.4	4.0	0.1	32	5	32	5	32	5	28	0.3	0.0	2510	582	178.6	7.7	36.1	4000	2000	1000	7000	9.2	6.9	7054.8	5039.1	71 %
10:00	1.1	4.4	4.0	0.4	4.0	0.1	36	5	36	5	36	5	32	0.3	0.0	2500	545	184.7	7.7	36.7	4000	2100	900	7000	9.0	6.8	7060.7	5042.8	71 %
11:00	1.1	4.4	4.0	0.4	4.0	0.1	38	5	38	5	38	5	34	0.3	0.0	2500	533	184.9	7.7	36.9	4000	2900	900	7000	9.45	6.6	7069.5	5049.2	71 %
12:00	1.1	4.4	4.0	0.4	4.0	0.1	48	5	48	5	48	5	44	0.3	0.0	2490	534	185.3	7.3	37.7	4000	2900	900	7000	9.0	6.6	7081.9	5058.1	71 %
13:00													Rinse and Backwash and ORP Pump Damaj By Stop Plant																
14:00																													
15:00	1.1	4.4	4.2	0.4	4.2	0.1	32	5	32	5	32	5	26	0.3	0.0	2480	581	222.7	7.2	37.9	3800	2100	1100	7400	9.2	6.9	7091.7	5065.0	71 %
16:00	1.1	4.4	4.2	0.4	4.2	0.1	34	5	34	5	34	5	30	0.3	0.0	2480	577	220.9	7.4	37.8	3800	3000	1100	7400	9.2	6.9	7098.3	5072.0	72 %
17:00	1.1	4.4	4.2	0.4	4.2	0.1	30	5	30	5	30	5	26	0.3	0.0	2470	560	190.0	6.9	40.8	3800	2700	1100	7100	9.6	6.9	7110.6	5079.2	72 %
18:00	1.1	4.4	4.2	0.4	4.2	0.1	36	5	36	5	36	5	32	0.3	0.0	2430	528	180.2	7.0	40.8	3800	2700	1000	7000	9.6	6.9	7118.9	5086.1	72 %
19:00	1.1	4.4	4.2	0.4	4.2	0.1	38	5	38	5	38	5	34	0.3	0.0	2420	513	177.0	7.0	40.8	3800	2700	1000	7000	9.4	6.6	7127.9	5091.9	71 %
20:00	1.1	4.4	4.2	0.4	4.2	0.1	42	5	42	5	42	5	38	0.3	0.0	2430	501	172.0	7.0	40.8	3800	2700	1000	7000	9.4	6.9	7139.0	5100.1	71 %
21:00	1.1	4.4	4.2	0.4	4.2	0.1	46	5	46	5	46	5	42	0.3	0.0	2470.0	512	168.3	7.0	40.8	3800	2700	1000	7000	9.6	6.6	7146.0	5105.5	71 %
22:00	1.1	4.4	4.2	0.4	4.2	0.1	48	5	48	5	48	5	44	0.3	0.0	2470	523	165.3	7.0	40.7	3800	2700	1000	7000	9.2	6.9	7156.0	5112.0	71 %
23:00													Permeate Tank full 13Y Plant stop Rinse and Backwash																
00:00	1.2	4.4	4.2	0.4	4.2	0.1	22	4	22	4	22	4	26	0.3	0.0	2510	517	111	7.2	43.3	6000	1400	400	7800	9.4	7.7	7165.5	5119.3	81 %
01:00	1.2	4.4	4.2	0.4	4.2	0.1	22	4	22	4	22	4	26	0.3	0.0	2570	517	99	7.5	40.1	6000	1400	400	7800	9.4	7.7	7176.1	5126.4	81 %
02:00	1.2	4.4	4.2	0.4	4.2	0.1	24	4	24	4	24	4	28	0.3	0.0	2510	587	97	7.5	38.1	6000	1200	600	7800	9.4	7.4	7180.1	5134.2	81 %
03:00	1.2	4.4	4.2	0.4	4.2	0.1	24	4	24	4	24	4	28	0.3	0.0	2470	565	97	7.5	38.1	6000	1200	600	7800	9.4	7.3	7200.8	5141.3	81 %
04:00	1.2	4.4	4.2	0.4	4.2	0.1	24	4	24	4	24	4	25	0.3	0.0	2210	565	97	7.5	38.1	6000	1200	600	7800	9.4	7.2	7209.3	5151.7	81 %
05:00	1.2	4.4	4.2	0.4	4.2	0.1	24	4	24	4	24	4	25	0.3	0.0	2110	578	97	7.5	38.2	6000	1200	600	7800	9.4	7.5	7217.1	5160.7	81 %
06:00	1.2	4.4	4.2	0.4	4.2	0.1	26	3	26	3	26	3	29	0.3	0.0	2610	613	98	7.4	38.1	6000	1200	600	7800	9.4	7.7	7226.5	5167.1	81 %
07:00																													

	New	Old	Total
Feed Totalizer reading FTR 151	7226.5	7037.2	189.3 M3
Permeate Totalizer reading FTR 180	5167.1	5025.3	141.8 M3
Total Reject	47.5		
Normal Operating hrs.	Running hrs 20 : 13 hrs		
Recovery	74 %		

Rochem Stop Rinse	Rochem Stop Clean	Rochem Stop Maint.	Client stop	Total stop
:	:	:	:	: hrs

Consumables details	I	II	III	Balance
MC-11				
AX				
MC-22				
MC-33				
Rohib	1			
C/F SPN 30"				
C/F WND 30"				
OIL				

STOPPAGES DETAILS

	Start	Stop	Diff	Reasons
1				Rinse and Backwash
2				
3				
4				
5				

Pressure	PI 141	PI 151	PI 1601	PI 162	PI 163	PI 1602
Time / Pressure						

Cleaning Time / Pressure	PI 141	PI 151	PI 1601	PI 162	PI 163	PI 1602

Site Incharge Sign: [signature]
ZM/TS/ATM Sign
Client Sign

Shift	Operator Name
GENERAL	Kamlesh
FIRST	Yogesh
SECOND	Yogesh
THIRD	[signature]

ANNEXURE 25*: COMPLIANCE REPORT OF EMP GIVEN IN EIA REPORT*

Sr. No.	EMP Plans	Recommendations	Compliance
1	Environment Management Plan for Air Environment	Sprinkling of water which lead to dust suppression	Provision made, use as and when required
		Ensure that vehicles have a Pollution Under Control (PUC) Certificate	Part of vehicle checklist
		Adequate safety measures along with spill control mechanism	Spill kits are provided
		Adequate safety measures, adequate stack height	Stack heights as per GPCB guidelines
2	Environment Management Plan for Water Environment	Adequate safety system, spill control mechanism,	Separate storm sewer, bunds/dykes provision
		Proper spill control mechanism, proper handling during loading & unloading, Ensure that vehicles have a Pollution Under Control (PUC) Certificate	Checklist are used to avoid any spillage/deviation.
		Usage of water and wastewater generation	Monitored and controlled
3	Environment Management Plan for Noise Environment	Periodic Maintenance and servicing of mechanized equipment and vehicles used for site clearing, Use of sharp equipment	Periodical maintenance for plant machineries in attached as ***Annexure A 1***
		Maintenance and servicing of mechanized equipment and vehicles	
		Maintenance and servicing of Foundation filling equipment	
		Use of sharp equipment, periodic servicing of mechanized equipment, use of good welding & cutting machinery	
		Periodic Maintenance and servicing of vehicles to ensure good conditions	
4	Environment Management Plan for Soil Environment/ Hazardous waste management	Use of well-maintained earth moving machinery / vehicles	Checklist available
		Use of well-maintained tankers Designated tankers shall be used Spill control mechanism shall be followed	Completed
		Spill control mechanism shall be followed	Completed
		Dyke shall be provided. Spill control mechanism along with impervious flooring shall be provided	Provided
		Hazardous waste shall be stored in designated area. Impervious flooring shall be provided Disposal of hazardous waste to authorized TSDF.	Designated place for storage of Hazardous waste
5	Ecology and Biodiversity	The selected plants for green belt development will be grown as per normal horticultural practice and the authorities responsible for the plantation will make adequate provision for water and protection of the spillages.	Implemented
		The plantation shall be in the five year recommended pattern	Noted
6	Environment Management Plan for Traffic	Controlled vehicular movement (preferably with clearly demarcated entry / exit) with adequate supervision	Separate material gate with necessary signage provided
		Segregation of vehicular and pedestrian area	Separate material gate with necessary signage provided
		Vehicle entry and exit scheduling so that traffic congestion is not created on the public road leading to the site	Noted

ANNEXURE 26: ***MEMBERSHIP LETTER FROM FROM BEIL, DAHEJ***

BEIL INFRASTRUCTURE LIMITED
(Formely Known As Bharuch Enviro Infrastructure Limited)

REF: BEIL/ANK/2023

05TH JANUARY, 2023

To,
ALKYL AMINES CHEMICALS LTD.
PLOT No. D-2/149/2,
GIDC - DAHEJ - II,
TAL: VAGRA,
DIST: BHARUCH,
DAHEJ.

Sub: Membership Certificate for Common Incineration Facility

Dear Sir,

You are a member of our Common Incinerator Facility, and your membership No. is **CI/BD/073**. We hereby certify that your booked quantity has increased from **25 MT/Year** to **300 MT/Year**.

Thanking you,

Yours faithfully,
For, BEIL Infrastructure Limited
(Formerly Known as Bharuch Enviro Infrastructure Ltd)

AUTHORISED SIGNATORY

CIN No.: U45300GJ1997PLC032696
Regd. Office : Plot No. 9701-16 GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225228 • Fax : (02646) 222849 • E-mail : dalwadibd@beil.co.in Website: www.beil.co.in

BEIL INFRASTRUCTURE LIMITED
(Formely Known As Bharuch Enviro Infrastructure Limited)

REF: BEIL/ANK/2023

05TH JANUARY, 2023

To,
ALKYL AMINES CHEMICALS LTD.
PLOT No. D-2/149/2,
GIDC - DAHEJ - II,
TAL: VAGRA,
DIST: BHARUCH,
DAHEJ.

Sub: Membership Certificate for Common Solid Waste Disposal Facility

Dear Sir,

We hereby certify that you have become member of the common Solid/Hazardous Waste Disposal Facility developed by For, BEIL INFRASTRUCTURE LIMITED (Formerly Known as Bharuch Enviro Infrastructure Ltd)., at GIDC, DAHEJ. You have booked solid waste quantity **400/ Year** (Original Booked Quantity **25 MT** + Increased Quantity **375 MT**). Your Membership No. **is OTH/651.**

1) Total TSDF Capacity of BEIL Dahej: 1900000 MT
2) Total Consented Capacity: 1900000 MT
3) Total Occupied Capacity: - 0976076.467 MT
4) Spare Capacity: 0923923.533 MT

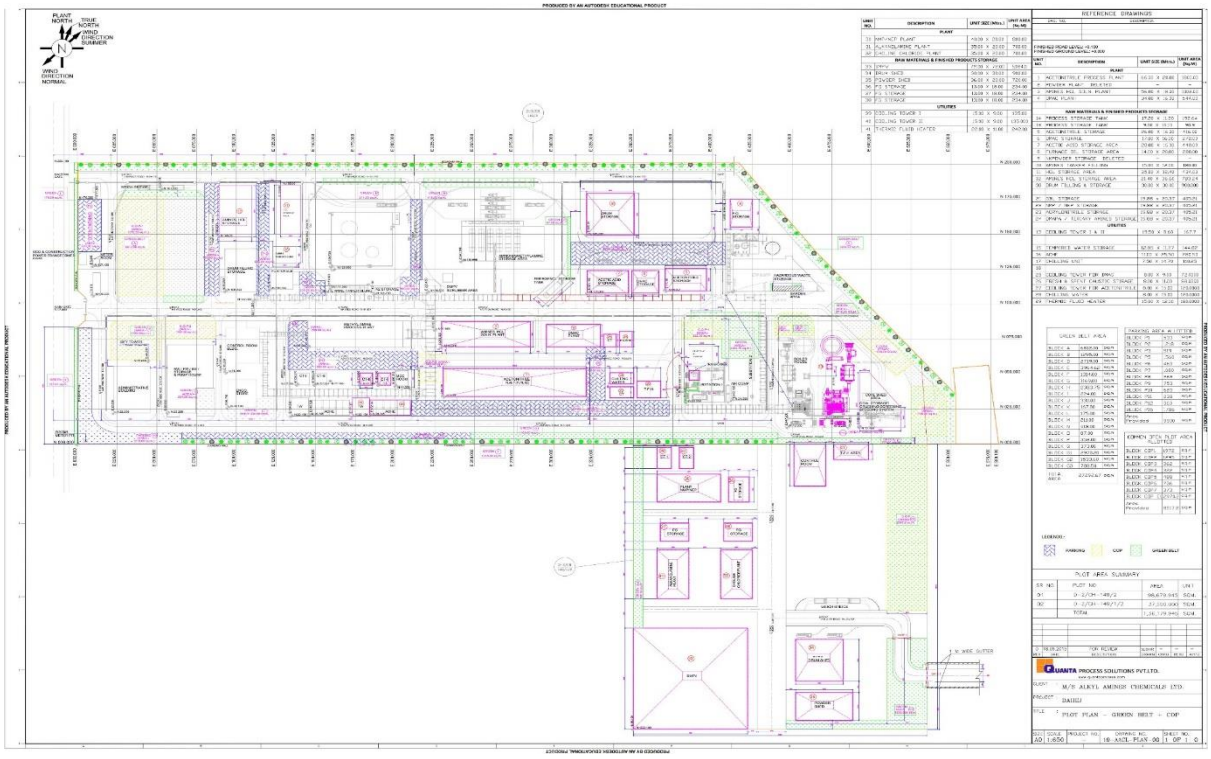
Thanking you,

Yours faithfully,
For, BEIL Infrastructure Limited
(Formerly Known as Bharuch Enviro Infrastructure Ltd)

AUTHORISED SIGNATORY

CIN No.: U45300GJ1997PLC032696
Regd. Office : Plot No. 9701-16 GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225228 • Fax : (02646) 222849 • E-mail : dalwadibd@beil.co.in Website: www.beil.co.in

ANNEXURE 27: *PLOT PLAN FOR VEHICLE MOVEMENT OF FIRE TENDERS*



ANNEXURE 28*: COPY OF PESO*

भारत सरकार/Government of India
वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) /Petroleum & Explosives Safety Organisation (PESO)
आंठवी मंजिल, यश कमल बिल्डींग, सयाजी गंज
वडोदरा- 390020
8th Floor, Yash Kamal Building, Sayajigunj,
Vadodara - 390020

ई-मेल:/E-mail :
dyccebaroda@explosives.gov.in
फोन / फ़ैक्स नंबर:/Phone/Fax No : **0265 - 2225159**

अनुज्ञप्ति सं./No : S/HO/GJ/03/1848(S67686) दिनांक/Dated : **29/11/2022**

सेवा में/To,

M/s. ALKYL AMINES CHEMICALS LIMITED,
D-2/CH/149/2,
GIDC -DAHEJ-II,
Dahej,
Vagra,
Taluka: Vagra,
District: BHARUCH,
State: Gujarat
PIN: 392130

विषय :/Sub : **Plot No, D-2/CH/149/2 (INSTALLATION NO. 1), GIDC DAHEJ-II, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392130 स्थित AMMONIA,METHYL AMINE, गैस के संपीडित पात्र / पात्रों में भंडारण के लिए स्थिर एवं गतिशील दाब पात्र (अज्वलित) नियम, 2016 के अधीन स्वीकृत अनुज्ञप्ति संख्या S/HO/GJ/03/1848 के नवीनीकरण संबंध में /Storage of NAMMONIA,METHYL AMINE gas in pressure vessels at Plot No, D-2/CH/149/2 (INSTALLATION NO. 1), GIDC DAHEJ-II, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392130 - Licence No : S/HO/GJ/03/1848 grant in form LS-1A of SMPV(U) Rules, 2016-Renewal of Licence Regarding**

महोदय/Sir(s),

कृपया आपके दिनांक : 14/11/2022 के पत्र संख्या: **OIN1204162** का संदर्भ ग्रहण करें ।/Please refer to your application No.**OIN1204162** dated 14/11/2022 .

अनुज्ञप्ति संख्या : **S/HO/GJ/03/1848** का नवीकरण दिनांक 30th सितंबर 2027 तक कर इसके साथ अग्रेषित की जा रही हैं ।
Licence Number: **S/HO/GJ/03/1848** is renewed and is valid upto **30th September 2027** is forwarded herwith.

दिनांक 30/09/**2027** . से आगे अनुज्ञप्ति नवीनीकरण हेतु उपरोक्त नियम के नियम 55 के प्रावधानों का पालन किया जाएं । विलंब शुल्क से बचने हेतु शुल्क के साथ मूल अनुज्ञप्ति तथा अन्य दस्तावेज अधिकतम दिनांक : 30 सितंबर, **2027** तक **The Jt. Chief Controller of Explosives, Vadodara Circle, Vadodara** में जरूर पहुंच जाने चाहिए ।
The provisions of the Rule 55 of the above said rules shall be followed for further renewal of the licence beyond 30/9/**2027**. The renewal application along with fees, Original licence and other documents shall reach in the Office of **The Jt. Chief Controller of Explosives, Vadodara Circle, Vadodara**, latest by 30th September,**2027** to avoid late fee.

कृपया अनुज्ञप्ति प्राप्ति की पावती दें ।/Please acknowledge the receipt of the licence.

भवदीय/Yours faithfully,

((आर.वेणुगोपाल)
(Dr. R.Venugopal))
संयुक्त मुख्य विस्फोटक नियंत्रक
Jt. Chief Controller of Explosives
वडोदरा/Vadodara

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : http://peso.gov.in देखें)
(For more information regarding status,fees and other details please visit our website http://peso.gov.in)

ANNEXURE 29*: DETAILS OF FIRE EXTINGUISHERS*

SR.NO.	Equipment	Weight	TOTAL
1	ABC	2KG	1
2	ABC	4KG	42
3	ABC	6KG	102
4	DCP	25KG	2
5	MODULAR	5KG	5
6	CO2	4.5KG	25
7	CO2	5KG	2
8	SAFETY SHOWER	-	69
9	SCBA SET	-	9

ANNEXURE 30*: COMPLIANCE OF RISK ASSESSMENT REPORT*

S. No.	Suggestions	Status of Compliance
1	Requisite personnel protective equipment shall be provided. Instruction/Notice to wear the same will be displayed. Further, it will be insisted to use the same while at work.	Completed
2	Provision of safety shower with eye washer.	Completed
3	MSDS of all hazardous chemicals will be available at office and with responsible persons.	Completed
4	Regular training programmer for safety awareness.	Completed
5	Provisions of First Aid Box and trained person in first aid.	Completed
6	Prohibition on eating, drinking or smoking at work-area.	Completed
7	Any leakage/spillage of liquid chemical shall be immediately attended.	Part of SOP
8	Work area will be monitored to maintain work environment free from any dust/chemicals-fumes/vapors and to keep well within below permissible limit.	Ambient monitoring is started
9	Provision of adequate Fire Extinguishers at site and training will be imparted to the workers also.	Completed
10	Maintaining the Fire-Protection System adequately.	Completed
11	Provisions of immediate accident/incident reporting and investigation.	Started
12	Instructions on Emergency/Disaster will be displayed.	Flowchart and necessary information to tackle an emergency is displayed at ECC.
13	Safety Posters and slogans will be exhibited at conspicuous places.	Started
14	Arrangement of Periodical Training to workers and supervisors.	Started, made a annual training calendar
15	Work permit systems will be strictly followed	Started
16	Safety Committee will be constituted and safety, health and environmental matters/issues will be discussed in the meeting and enlighten the participants in these respect.	Monthly safety committee meetings are started
Mitigation Measures		
1	Medical checkup would be carried out,	Completed
2	During site preparation proper care would be taken by AACL, appropriate PPEs will be provided to site workers and staff members,	PPEs are provided
3	Appropriate personnel protective clothing to be used to prevent skin contact.	Provided hand gloves, PVC apron for the same.
4	Safety Goggles will be used to prevent eye contact.	Safety goggles, face shields are provided
5	Hand gloves of natural rubber, neoprene, and polyvinyl chloride will be used as and when required	Provided
6	Acoustic enclosures will be provided to DG sets and other noise generating equipment	Acoustic for DG is provided
7	AACL will develop and implement a spill management plan to prevent risk of spill which may cause health problem.	Spill management is covered under emergency scenario in onsite emergency plan. Spillage kits are provided

Annexure 31: Agreement letter (PO) with consultant doctors.

Alkyl Amines Chemicals Ltd.

Regd. Office : 401-407, Nirman Vyapar Kendra, Plot No. 10, Sector 17, Vashi, Navi Mumbai 400703. (INDIA)
Tel.: 022-6794 6600. fax : 022-6794 6666. E-mail : alkyl@alkylamines.com Visit us at : www.alkylamines.com

Responsible Care®

PURCHASE ORDER

Issue No. 03 Dt. 01.01.2022 Rev. No. 00 Dt. 01.01.2022 Doc. No. FORM/PUR/V/05

Supplier Name and Address	Billing and Shipping Address			
SANJIVANI OCCUPATIONAL HEALTH CENTRE VATSALYA HOSPITAL SHRAVAN CHOKDI BHARUCH BHARUCH 392001	Alkyl Amines Chemicals Limited Plot No. D-2/CH/149/2, GIDC Dahej-2 Industrial Area, Tal. Vagra, Dist. Bharuch 392110	PO Number	3600001161	Date 06-05-2023
Supplier Code 600412 GST No. 24ACGFS4654N1ZN Quotation Ref.	PAN No. AAACA6783F GST No. 24AAACA6783F1ZS State Gujarat State Code 24	Quotation No.	2600001208	Date 06-05-2023
		Requisition No.	1600001193	Date 20-04-2023
		Validity Date	31-03-2024	
		Amendment No.		Date
		Inco Terms		
		Mode of transport		

Terms of payment AGAINST COMPLETION JOB & CERTIFIED BILLS IN 7 DAYS
Dispatched through
Remarks

Sr.No	Item Code & Description	Delivery Date	Quantity	Unit	Rate	Value
1	**FMO Visit Charges** factory medical officer who will provide this service two hours three times in a week. Charges for it is Rs. 2750/- per visit (for 2 hours only). 3 times/week x 4 week = 12 visit/month 12 visit/month x 12 Months= 144 visit Extra visit as per company need = 10 visit Total visit = 154 visit/year 154 visit x 2750 = 423500/- Reference PO: 5000018497 DTD 18.08.2022 Terms & Conditions - 1. Uniform should be provide to OHC Staff by Sanjivani. 2. PPE'S will be provided by Company and charges will be deducted from your Monthly bill. 3. Weekly Off compulsory for all OHC Staff. 4. First Aid and Health Awareness training conduct by Male Nurse for Contract Employees as per schedule. 5. Occupational Health, First Aid and Health Awareness training conduct by FMO as per schedule. 6. Plant round by FMO with EHS Team must be taken as per EHS Schedule. 7. Full Time FMO should have 4-5 year's experience in Industries and Female candidates are not allowed. Please send the list of FMO for duty in case of regular FMO remain absent. 8. Replacement of FMO and Male Nurse should be inform in advance to AACL. 9. Male Nurse should do the safety work as per distributed by EHS and reports should be submitted to EHS and Site Head before 10th Every Month. 10. Monthly OHC report should be send to AACL FMO before 5th every month. 11. Statutory compliance related to OHC (RC,					

ANNEXURE 32*: DETAILS OF TRAINING PROVIDED TO WORKERS*

Training Schedule

Training Calendar			
Document No. – Form/HR/V/04 – Issue No. 02 – Date – 01.01.2019 – Rev. No. – 01 – Date – 01.01.2020			
Issued By			
Sr. No.	**Month**	**Date**	**Training Title**
1	Apr-23	6-Apr-23	First Aid & Industrial Hygiene Fire - Prevention and control Behaviour safety sampling
2	May-23	9-May-23	First Aid & Industrial Hygiene Fire - Prevention and control Behaviour safety sampling
3	Jun-23	8-Jun-23	First Aid & Industrial Hygiene Fire - Prevention and control Behaviour safety sampling
4	Jun-23	22-Jun-23	First Aid & Industrial Hygiene Fire - Prevention and control Behaviour safety sampling
5	Jul-23	6-Jul-23	First Aid & Industrial Hygiene Fire - Prevention and control Behaviour safety sampling
6	Aug-23	10-Aug-23	First Aid & Industrial Hygiene Fire - Prevention and control Behaviour safety sampling
7	Sep-23	7-Sep-23	First Aid & Industrial Hygiene Fire - Prevention and control Behaviour safety sampling
8	Sep-23	21-Sep-23	First Aid & Industrial Hygiene Fire - Prevention and control Behaviour safety sampling
9	Oct-23	5-Oct-23	First Aid & Industrial Hygiene Fire - Prevention and control BSC Awarness
10	Nov-23	9-Nov-23	First Aid & Industrial Hygiene Fire - Prevention and control BSC Awarness
11	Dec-23	7-Dec-23	First Aid & Industrial Hygiene Fire - Prevention and control BSC Awarness
12	Dec-23	24-Dec-23	First Aid & Industrial Hygiene Fire - Prevention and control BSC Awarness
13	Jan-24	11-Jan-23	First Aid & Industrial Hygiene Fire - Prevention and control BSC Awarness
14	Jan-24	25-Jan-24	First Aid & Industrial Hygiene Fire - Prevention and control BSC Awarness
15	Feb-24	8-Feb-24	First Aid & Industrial Hygiene Fire - Prevention and control BSC Awarness
16	Mar-24	7-Mar-24	First Aid & Industrial Hygiene Fire - Prevention and control BSC Awarness

Records of Training

Alkyl Amines Chemicals Limited
Training Attendance Form

Document No. Form/HR/W/06 - Issue No. 02 - Date 01.01.19 - Rev. No. 01 - Date 01.01.20

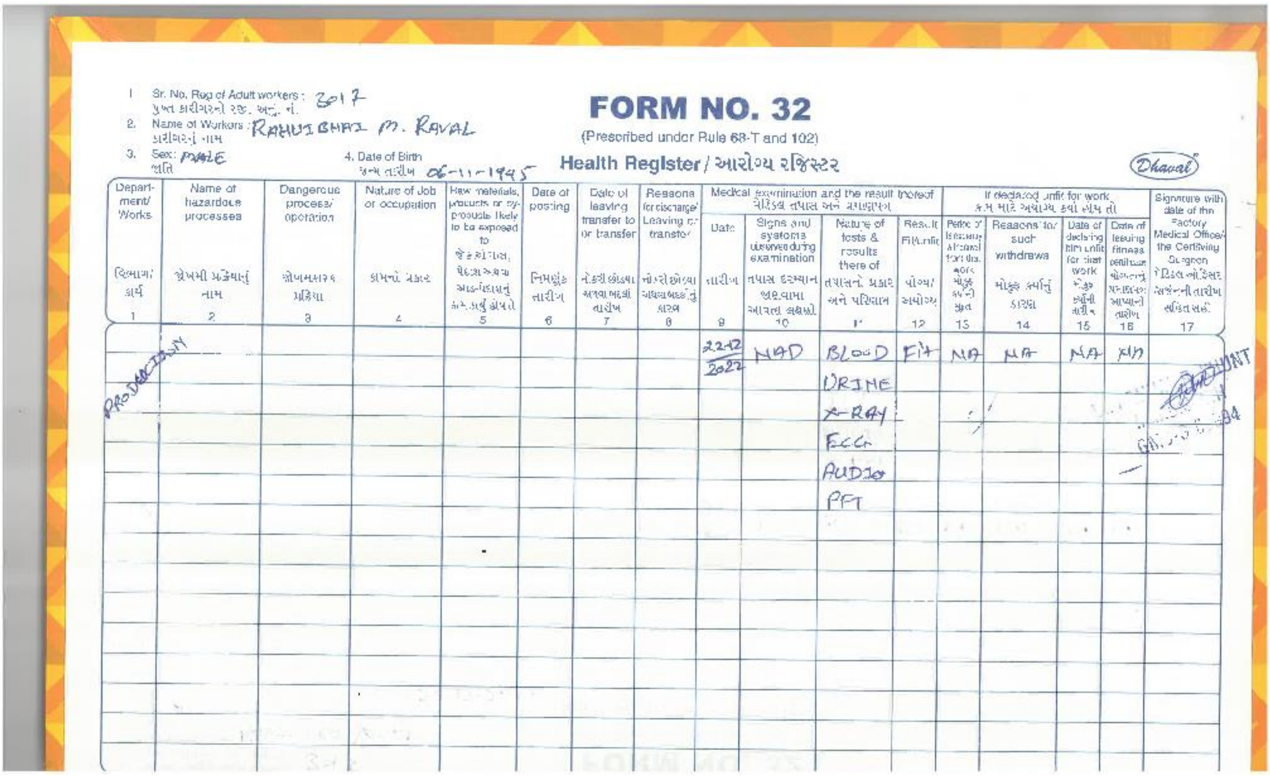
TRAINING ATTENDANCE FORM

Subject	: First Aid.
Date	: 10/10/23.
Time	: From 10 AM To 12 PM
Venue	: Conf - 2.
Faculty	: Dr. [illegible]

SR.NO	EMP.NO.	NAME OF PARTICIPANTS	DEPT	LOC	EMP. SIGN
1	Gurudutt	Mahesh Rathod	Acl Cleaning	PH	[illegible]
2	"	Sanjay Parmar	ETP	"	[illegible]
3	"	Anil Rathod	CR	"	Anil
4	"	Anil Kumar	Drum Filling	"	Anil Kumar
5	"	Shiv Kumar	"	"	[illegible]
6	NewGen	Deshpal.	General	"	[illegible]
7	"	Ajit Kr. Gupta	"	"	Ajit
8	Raccon.	Vishal Yenkar.	electric.	"	[illegible]
9	Gurudutt	Arun Rathod.	office Boy	"	Arun
10	"	Rahul Salunke	"	"	[illegible]
11	"	Sonu kr.	Drum Filling	"	[illegible]
12.	Gurudutt	Mohan Patel.	Engg. store.	"	[illegible]

Signature of Faculty / Evaluator

ANNEXURE 33: *HEALTH REGISTER*



1. Sr. No. Reg of Adult workers : 3017
2. Name of Workers : RAHULBHAI M. RAVAL
3. Sex : MALE
4. Date of Birth : 06-11-1995

FORM NO. 32

(Prescribed under Rule 68-T and 102)

Health Register / આરોગ્ય રજિસ્ટર

Department/ Works	Name of hazardous processes	Dangerous process/ operation	Nature of Job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of leaving transfer to or transfer	Reasons for discharge/ Leaving or transfer	Medical examination and the result thereof: Date	Signs and symptoms observed during examination	Nature of tests & results there of	Result Fit/Unfit	If declared unfit for work: Period of temporary withdrawal for that work	Reasons for such withdrawal	Date of declaring him unfit for that work	Date of issuing fitness certificate	Signature with date of the Factory Medical Officer/ the Certifying Surgeon
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PRODUCTION								22-12-2022	NAD	BLOOD URINE X-RAY ECG AUDIO PFT	Fit	NA	NA	NA	NA	[illegible]

ANNEXURE 34*: DETAILS ON CSR*

CSR EXPS – Dahej					
Year	**Category**	**Project**	**PURPOSE**	**PROJECT COST**	**AMOUNT PAID**
2016-2017	Administration	Base Line Study	To carry out need assessment	100000	100000
2017-2018	Environment Sustainability & Rural Development	Street Lamps at Vadadala	We have provided Two lamp post, in Vadadala near GP office - 10 meter - 150W	292000	292000
2017-2018	Health	Operation Theather Equipments - Eye	Hospital - OT Equipment	2500000	2500000
2018-2019	Health	Toilet Building - Vadadala	18 NOS OF TOILET CONSTRUCTION AT VADADLA VILLEGE	504000	504000
2019-2020	Environment Sustainability & Rural Development and Health	Hospital Equipment, Toilet Building, Trees plantation, Street Lamps	Yag Laser for post catract Operation, 18 Toilets construction, Tree Plantation and 2 Street lamps	2022000	2022000
2020-21 (till May-20)	Health	Distributed Cooked food packets and Grains packets Dahej - Vadadala and Jolva Village	Covid-19	188000	188000
	Health	Distribution of food pkt- Dahej	Covid-19	141278	141278
	Education	KOBA MUSEUM PROJECT	KOBA MUSEUM PROJECT	500000	500000
2022-23	Education	Repairing of Chandulal Boys hostel at Dahej - bharuch	Request from Collector of Bharuch	400000	400000
	Education	Kadodara Village School - Renovation of Classrooms	Older infrastructure	175000	175000
	Education	Two new classrooms at Trankal Village School	Lack of class room	700000	700000
	Education	Renovation of Trankal Village School male and female washrooms, for staff and students	Wash room in damaged condition	200000	200000
	Rural Dev	Trankal Village - High Mast 1 Light Pole	Lack of lights in night hours	225000	225000

	Education	Computerisation of Anandima Hospital	For awarness	1800000	1800000
	Rural Dev	Community Hall at Vav Village	For community	800000	800000
	Environment	Lake Desilting Work - desilt around 15000 cubic meters	Lake Desilting Work	1858500	1858500
	Environment	50kl Water tank at Galanda	To provide drinking water to villagers	2891000	2891000
TOTAL				**15296778**	**15296778**

1) Provision of Street Lights at Dahej

We have provided two lamp posts, in Vadadala near the Gram Panchayat office, both 150 watts.

Amount Budgeted: 2.92 lacs
Amount Spent: 2.92 lacs

2) Hospital OT equipment at Nikora, Dahej

Tribal folk living in the inner regions of Nikora, have little no access to any medical facilities. Alkyl has provided Ophthalmology Operation Theatre equipment to the Hospital that's run by the Anandmai Trust. They provide excellent medical care to the tribal folk, at no cost. They do over 500 eye surgeries a year and up till now, have had to refer patients to facilities in other districts but now with the equipment, the specialists and doctors will be able to serve the locals right there, in their own center.

Way Forward: To attend the inauguration in June, once all the equipment has been delivered.

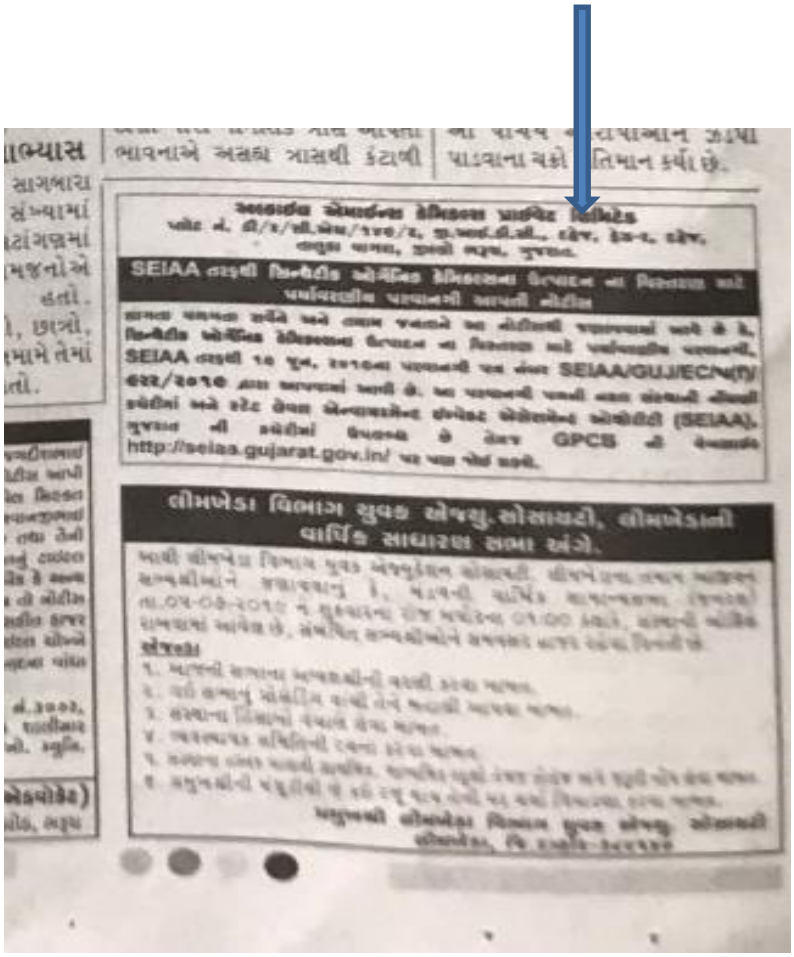
Amount Budgeted: 25 lacs
Amount spent: 2

2) Goladara village Lake development, Dahej

ANNEXURE 35: *ADVERTISEMENT IN NEWS PAPER*

1) Gujarat Samachar

Advertisement given in gujarati newspaper



2) Times of India

Advertisement given in english newspaper

Alkyl Amines Chemicals Private Limited
Plot No. D2/CH/149/2, GIDC Dahej, Phase-II, Dahej,
Taluka Vagra, District Bharuch, Gujarat

NOTICE OF ENVIRONMENTAL CLEARANCE BY SEIAA, GUJARAT FOR SETTING UP EXPANSION OF SYNTHETIC ORGANIC CHEMICALS MANUFACTURING PLANT

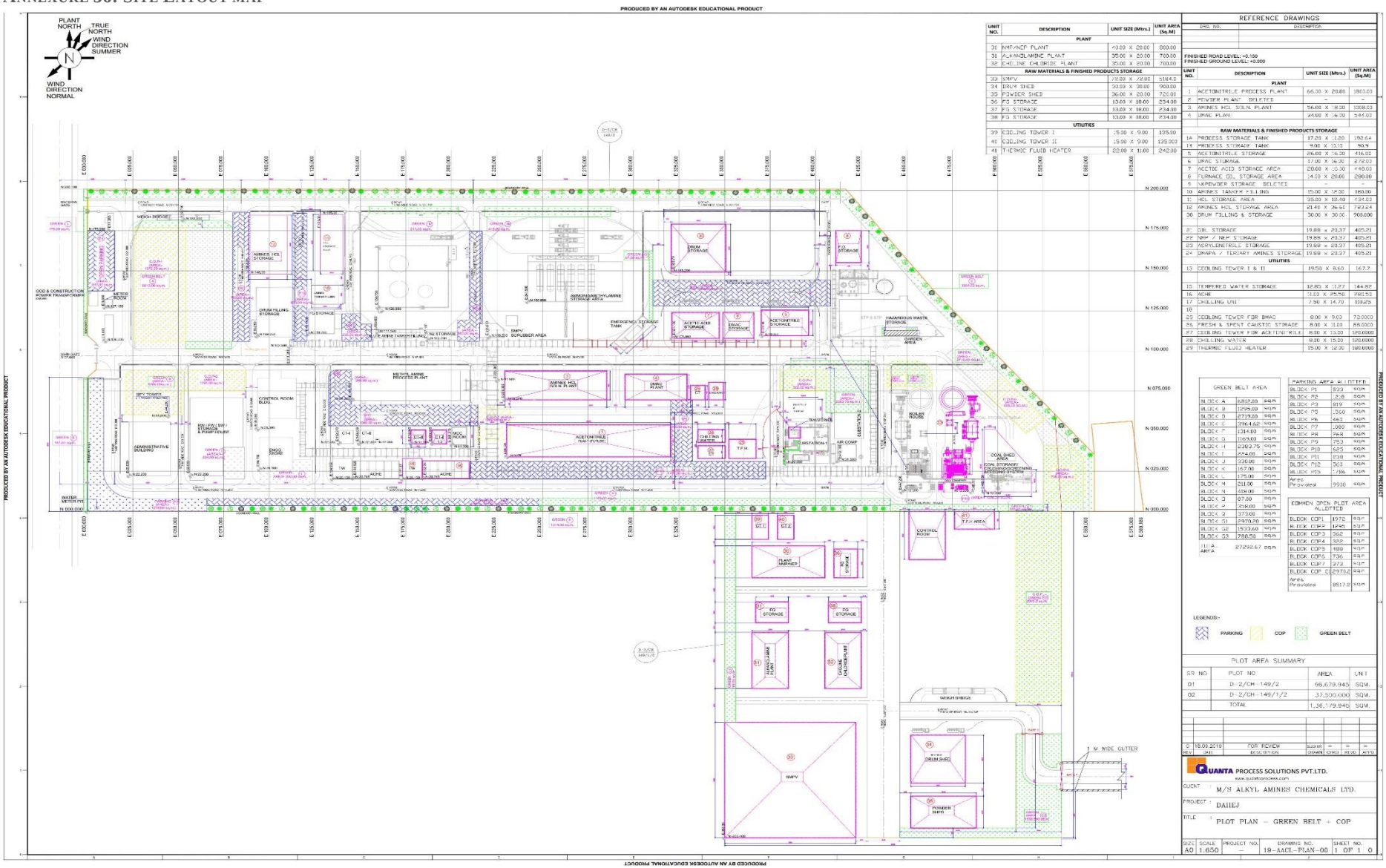
Notice is hereby given, to all concerned & public at large, that the setting up Expansion of synthetic organic manufacturing plant has been accorded Environmental Clearance from State Level Environment Impact Assessment Authority, Gujarat vide its letter of clearance no. SEIAA/GUJ/EC/5(f)/922/2019 dated 19th June, 2019. The copy of the said clearance letter is available at the registered office of the Organization & at the office of State Level Environment Impact Assessment Authority (SEIAA), Gujarat and may also be seen at website of the GPCB at http://seiaa.gujarat.gov.in/

M/s. JAY CHEMOPHARMA
Plot No.25/3,Jhagadia Megha Industrial Estate, Jhagadia, Bharuch

Public Notice **Environmental Clearance**

It is hereby informed that the State level Environment Impact Assessment Authority, Gandhinagar, Gujarat has accorded the Environment Clearance for manufacturing of SYNTHETIC

ANNEXURE 36: SITE LAYOUT MAP



ANNEXURE 37: EC ADVERTISEMENT COPY SUBMISSION TO RO

ALKYL

Alkyl Amines Chemicals Limited

Factory : [illegible] Dahej - 2, Industrial Estate, GIDC, Taluka Vagra, Dist. Bharuch, Gujarat - 392130.
Email : alkyl@alkylamines.com • Visit us at : http://www.alkylamines.com
Gujarat GST No. : 24AAACA[illegible]

Responsible Care

Dated: 05/07/2019

To,

Regional Officer,

Gujarat Pollution Board,

Bharuch

Subject: - Submission of EC No SEIAA/GUJ/EC/5(f)/922/2019 dated 19/06/2019

Dear Sir,

We are submitting herewith copy of EC no SEIAA/GUJ/EC/5(f)/922/2019 dated 19/06/2019 & Advertisement copy as per EC condition no 103

Ramesh Shah

Thanking you,

Yours faithfully,

For, Alkyl Amines Chemicals Limited.

(Ramesh Shah)

Encl.: As stated

Post Received
Gujarat Pollution Control Board
BHARUCH

ANNEXURE 38: VEHICLE CHECK DOCUMENT

ALKYL

FORM/D/COMM/02
ISSUE NO. 02 DATE 01.04.2023
REV. NO. 00 DATE 01.04.2023

Alkyl Amines Chemicals Limited

D-2/CH149/2, DAHEJ, PHASE-II, INDUSTRIAL ESTATE, GIDC, TA. VAGRA, DIST. BHARUCH.

FINISHED GOODS - DISPATCH FORM

TO BE FILLED BY COMMERCIAL SECTION

Date :
Reporting Time/Date :
In time/Date :
Reason for delay for in time : .....

Vehicle No. :
Transporter :

Type of Vehicle : Truck / Tempo / T... Wheeler / Tanker / Iso - Container - Tanker / Other

Vehicle History (in case of tanker) : Previous Material.....Water Flushed / Servicing Done

Party Name	From ...t	Quantity	Transport

Signature - Commercial Section

Time :

TO BE FILLED BY F & S DEPARTMENT

Name of Driver :

Driving Lic. No.

Safety Requirements :	Remarks		
1) Driver Training Certificate		09) Spark Arrester	
2) Chief Controller of Explosive's Valid Licence		10) Fire Extinguisher (DCP, Foam)	
3) R.T.O. Fitness Certificate - Valid		11) First Aid Box - Maintained	
4) State Permits & Validity		12) P.P.E. (safety goggles,PVC Apron,Suit Gloves, Gumboot, Facemask, Helmet)	
5) Valid Insurance Certificate		13) Dip - Availability & working status	
6) P.U.C. Valid Certificate		14) Ladder, Platform, Railings-Status	
7) Emergency Information Panel / Class Signs,		15) PSV, PC, Temp. Guage-Status	
8) Road Map / Trip Sheet			

Signature of Safety Officer, Ex. F & S

(Tremcard given & explained to driver / cleaner)

Time :

TRANSPORT PASS

Vehicle No. is permitted to ply on street no.

NO PLANNED ATMOSPHERIC VENTING OF INFLAMMABLES ARE ALLOWED DURING THE PERIOD IN THE VICINITY
This has been explained to Process Technicians Concerned.

Signature of SIC / Area In - Charge

Date and Time :

ANNEXURE 39: WATER CONSUMPTION BILL OF MONTH OF OCT-23

GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION
A Govt. of Gujarat
Office of the Deputy Executive Engineer, GIDC, Bharuch
Phone No 02642-242432 CONSUMER COPY

Party Name : ALKYL AMINES CHEMICALS LIMITED
Address :
Plot No. D-2/CH/149/1/2 +D-2-CH-149-2
Quantity as per GPCB Consent : 0(KLPD)
Connection given Qty(per day): 994(KLPD)

Bill No : 161965 **Size(M.M) :** 100 MM **Bill Date :** 15/11/2023 **Category :** INDUSTRIAL
Bill Month : 10-2023 **Connection No:** 190 **Last Date :** 30/11/2023 **Meter Status:** NORMAL

Water Bill

This Month's Charges:-		
Current Reading	:	694656
Previous Reading	:	674034
Consumption	:	20622
Rate/1000 Ltr.	:	49.84
Normal Water Usages Charge:		1,027,800.48
Excess Water Usages Charge:		0.00
Penalty	:	0.00
Adjustment	:	0.00
This Month's Charges :		**1,027,800.00**

Your Account Details:-		
Outstanding	:	0.00
Interest Rs	:	0.00
Penal Interest Rs	:	0.00
Waiver Interest Rs	:	0.00
Waiver Penal Int.Rs	:	0.00
This Month Charges	:	1,027,800.00
Gross Amount	:	1,027,800.00
Net Amount(Before Last Date)		**1,027,800.00**
Amount Payable After Last Date		
Interst Rs.	:	8,993.25
Penal Interest Rs.	:	0.00
Waiver Interst Rs.	:	0.00
Waiver Penal Int.Rs.	:	0.00
Gross Amount	:	1,036,793.25
Net Amount(After Last date)		**1,036,793.00**

Drainage Bill

This Month's Charges:-		
Consumption	:	20622
Rate/1000 Ltr.	:	15.40
Drainage Charge	:	317,578.80
Penalty	:	0.00
Adjustment	:	0.00
This Month's Charges :		**317,578.80**

Your Account Details:		
Outstanding	:	0.00
Interest Rs	:	0.00
Penal Interest Rs	:	0.00
Waiver Interest Rs	:	0.00
Waiver Penal Int.Rs	:	0.00
This Month Charges	:	317,578.80
Gross Amount	:	317,578.80
Net Amount(Before Last Date)		**317,579.00**
Amount Payable After Last Date		
Interst Rs.	:	2,778.81
Penal Interest Rs.	:	0.00
Waiver Interst Rs.	:	0.00
Waiver Penal Int.Rs.	:	0.00
Gross Amount	:	320,357.81
Net Amount(After Last date)		**320,358.00**

Your Bill Summary :-

O/S Amount	Interest	Penal Interest	This Month Charges
0.00	0.00	0.00	1,345,378.80

Payable Before 30-11-2023 1,345,379.00
Payable After 30-11-2023 1,357,151.00

Your Last Bill Pay Summary :-
Last Bill pay Amount Rs. 1807498 Last Bill pay Date : 26-10-2023

Dy. EX. Engineer
G.I.D.C,Bharuch

Payment detail

Payment Mode	Amount	Paid Date	Cheque/D.D No	Cheque/D.D Date	Bank	Branch
Cheque/D.D./Cash	-	-	-	-	-	-

Bank Copy	
Party Name : ALKYL AMINES CHEMICALS LIMITED	
Property : D-2/CH/149/1/2 +D-2-C	
BillNo : **161965**	Bill Dt : 15/11/2023
Connection No : **190**	
Payable Before 30-11-2023 :	**1,345,379.00**
Payable After 30-11-2023 :	**1,357,151.00**
Payment Mode:	Cheque/D.D/Cash
Amount :	
In Words Rs.	
Receipt Date:	
Chq/D.D No:	chq/D.D Dt:
Bank :	
Branch :	
Contact No :	

GIDC Copy	
Party Name : ALKYL AMINES CHEMICALS LIMITED	
Property : D-2/CH/149/1/2 +D-2-C	
BillNo : **161965**	Bill Dt : 15/11/2023
Connection No : **190**	
Payable Before 30-11-2023 :	**1,345,379.00**
Payable After 30-11-2023 :	**1,357,151.00**
Payment Mode:	Cheque/D.D/Cash
Amount :	
In Words Rs.	
Receipt Date:	
Chq/D.D No:	chq/D.D Dt:
Bank :	
Branch :	
Contact No :	

Note:- Subject to Verify

1) The Notification No.2/2017 - central Tax (Rate) dated 28-06-2017 exempts water from GST under heading/ sub-heading/ tariff item No.2201

2) As per circular No.GIDC/O&M/CIR/ACC/REC/14 Dated 29/04/2019 only online payments through our website will be accepted. So please pay online through our website:www.gidc.gujarat.gov.in ->Online Payment of dues->User Registration for GG-> Water/Drainage Payment->Region->Estate->Water Charges/Drainage Charges->Party Name/Plot No->Click to pay

Printed on :- 21-11-2023 09:50:58

ANNEXURE 40: COMPLIANCE OF FACTORY ACT

ALKYL AMINES CHEMICALS LIMITED-DAHEJ
LEGAL REGISTER AS OF January - 2021

LIST OF IDENTIFIED LEGAL & OTHER REQUIREMENTS			
			Page : 16
Sr.No.	**Act / Section / Rules**	**Requirements / Limits**	**Remarks**
18	**The Factories Act, 1948 with The Gujarat Factories Rules, 1963 as amended by (amendment) Rules 2012 and up to latest Amendment 2018**		
a)	GFR 3	Plans of factory approved by Chief Inspector of Factory in Form No. 1	Available at Site
b)	GFR 3 C	Certificate of stability of the factory building by a Competent person in Form No. 1 (A).	Available at Site
c)	GFR 4, 5, 7, 8 & 11	Application for registration of factories in Form-2 (Change of occupier) Application for license / renewal of license of factory in Form No. 3, two months before expiry. Form 3-A Notice of change of Manager	Required at Site
	GFR 12-B	Maintanance of record in Form-37 in respect of monitoring working environment in factory.	Complied
	GFR 12-C	Health & Safety policy display in language understood by majority of workers	Complied
d)	GFR 15	Duties of certifying surgeons :	Available
		Maintain health records in Form No. 32	
		Medical examination once a year from certifing surgeon appointed or recognised by Govt.	Complied
e)	GFR 31	Maintaining of Illumination Level at work places	Complied
f)	GFR 40	Provision of cooled drinking water from 1st March to 30th November & maintained water centers in clean & orderly condition.	Complied
g)	GFR 50	Provision of at least one tap for every 10 latrine.	Complied

LIST OF IDENTIFIED LEGAL & OTHER REQUIREMENTS Page : 17			
Sr.No.	**Act / Section / Rules**	**Requirements / Limits**	**Remarks**
18 j)	GFR 60, Section 29	Examination of lifting machinery chains, ropes & lifting Tackles records to be maintained in Form No. 10. New machinery to be tested by competent person & certificate maintained before being put into use.	Complied As & when required
k)	GFR 61 & Section 31	Report of periodical examination of pressure plant / vessel and maintain records a) External examination b) Internal examination c) Hydro test d) Marking of safe working pressure and date of last Examination on the vessel. e) Pressure plants idle for period exceeding 6 months or which has undergone repairs or alternation shall be examined by a Competent person before being taken into use. f) Reports of examination of pressure plant shall be maintained in Form No. 11 If the internal examination is not possible, hydro test to be Carried out in 2 years.	Complied Complied
L)	GFR 62	Max. land to lift, putdown, carry or move by adult Female is 29.5 kg	Complied
Issue No. : Rev. No. : 0			

LIST OF IDENTIFIED LEGAL & OTHER REQUIREMENTS Page : 18			
Sr.No.	**Act / Section / Rules**	**Requirements / Limits**	**Remarks**
18 m)	GFR 63	Provision of safety goggles for protection of eyes	Complied
n)	GFR 66A	Protection against lightning	Provided
o)	Permit to work Para 20 of Part II	Auditing of permits	Complied
p)	GFR 68 (J)	In case of highly hazardous chemical processes 1. Only trained operators thoroughly conversant with process Shall operate the plant. 2. Emergency instruction to be displayed at prominent places.	Complied

q)	GFR 68B	Quality of PPE's to be of relevant Indian standard	Complied
s)	GFR 68 F	i) Formation of safety committee with participation of Management / non-management. ii) Meeting of committee	Complied Complied
t)	GFR 68 (O)	Health and Safety Policy Prepare HSE Policy and make it known.	Complied
u)	GFR 68 (J & Q)	MSDS of hazardous chemicals to be made and made known to employees.	Complied
	Schedule - 8	Safety report Updating site safety report in case modification to the industrial	Complied Complied
	GFR 68 (subrule-9)	activity & isolation storage to which that safety report related	
v)	GFR 68 (K)	Discloser of information to workers	Complied
Issue No. : Rev. No. : 0			

LIST OF IDENTIFIED LEGAL & OTHER REQUIREMENTS			
			Page : 19
Sr.No.	**Act / Section / Rules**	**Requirements / Limits**	**Remarks**
18 w)	GFR 68 (M)	Yearly review of booklet made under rule 68-K.	Complied
x)	GFR 68 (L)	Disclosure of information to Chief Inspector : 1. MSDS of hazardous substance. 2. OSEP 3. Booklet under 68K	Complied
y)	GFR 68(O)	Health & Safety policy	Complied
z)	GFR 68 (T)	1. Medical examination of the employees	
		a) Pre employment medical check up	Complied
		b) Annual medical checkup of own & contract employees	Complied for Company Employee & Contract workers will check with contractors

		2. Medical examination of employees working in hazardous	Complied
		processes by factory Medical officer	
		Health records to be maintained in Form 32	Complied
aa)	GFR 68 (U)	1. Provide occupational health center with equipment as listed	Complied
		2. Provision of first aid boxes.	Complied
ab)	GFR 68 (V)	Provision of Ambulance van.	Complied
ac)	GFR 68 (W)	First aid boxes and eye showers to be provided in plant area.	Complied
ad)	GFR 72 to 78	Canteen facility	separate checklist
			maintained at P&A as per IMS
Issue No. : 2			
Rev. No. : 0			

LIST OF IDENTIFIED LEGAL & OTHER REQUIREMENTS

Page : 20

Sr.No.	Act / Section / Rules	Requirements / Limits	Remarks
18	Rule-102 Schedule XIX		
	Part II ,7	Examination of instruments and safety devices	Complied
	Part II,9, (5)	Stand by arrangement to transfer the toxic substances	Complied
	Part II,9, (11)	PPEs shall be provided (Approved ,Clean, sterile and hygienic)	Complied
	Part II,9, (12)	Control room alarm system to be checked daily and tested every month	Complied
	Part II,18, (2)	Log book of every entry or work in confine space shall be maintain	complied
	Part III ,7	Pipe carrying flammable or explosive substances shall be examined	complied
	Part V, 1	Antidote such as Methylene blue shall always be available	Available
ae)	Sch. XXIII GFR 102 schedule-12	Permissible Exposure in cases of continuous noise Provision of PPE's during use of Acids, Alkalis	Complied Annexure - Maximum Exposure to Noise as per OSHA.
af)	Sch.111 A	Safety training to be provide to all staff (including contract worker) by competent person	Complied
aj)	GFR 103	Report of the accident resulting in lost time of 48 hrs. in Form No. 21 & dangerous occurrence in Form-21A	Complied
Issue No. : Rev. No. : 0			

LIST OF IDENTIFIED LEGAL & OTHER REQUIREMENTS

Sr.No.	Act / Section / Rules	Requirements / Limits	Remarks
18 ag)	GFR 106	Abstract Of the Factories Act 1948 And The Gujarat Factories Rules, 1963 , In Form 23	Complied
ah)	GFR 104	A notice of poisoning or disease in Form No. 22	As & When required
ai)	GFR 107 (1)	Annual return for the year ending 31st December before 1st February in Form No. 24 Half Yearly returns on or before the 15th of June, return for the preceding half yearly in Form 25. Annual return of holiday to Chief Inspector	Complied Complied Complied
aj)	GFR 111	Register of accidents and dangerous occurrences in Form No. 29	Complied
ak)	GFR 112	Maintain an inspection book in Form 31.	Complied
al)	Section 41(F) Second Schedule Rule 68-Q	Permissible limit of exposure of chemical and toxic Substances.	

Issue No. : 2

Rev. No. : 0

LIST OF IDENTIFIED LEGAL & OTHER REQUIREMENTS

Sr.No.	Act / Section / Rules	Requirements / Limits	Remarks
18	**Gujarat Safety Officer** **Rule 1982; Latest Edition 2018**		
am)	Rule 3,4 & 5	Appointment of safety officer	Complied
an)	Rule 8	Duties of safety officer	
ao)	Food Safety & Standards Act 2006, Rules 2013; Latest Edition 2018	Ensure availability of valid licence with canteen contractor	Complied
ap)	Prevention of food Adulteration Act, 1954; Latest Edition 2018	Ensure availability of valid licence with canteen contractor	Complied

Issue No. : 2

Rev. No. : 0

ANNEXURE 41: ***ONSITE EMERGENCY PLAN***

Alkyl Amines Chemicals Limited, Dahej	**ON SITE EMERGENCY PLAN**	Page 1 of 74
Operational Emergency Procedure	Issue No. 01 Date: 01/11/2017.	Revision No. 5
	Next revision Date : 01/10/2022	Revision Date: 01/10/2021

ON SITE

EMERGENCYPLAN

For

ALKYL

ALKYL AMINES CHEMICALS LIMITED

PLOT NO.D2/CH/149/2,PHASE II,GIDC,Dahej

VILLAGE: DAHEJ, TALUKA: VAGRA, DIST: BHARUCH -INDIA.

ISSUE NO. : 01 REVISION NO. : 05

ANNEXURE 42: SOP OF AMMONIA

ALKYL AMINES CHEMICALS LIMITED, DAHEJ			Document No: WI/DISP/D /1.02
Work Instruction			Issue No. : 01 Date :01.01.2019
Material Unloading of Ammonia tanker			Rev. No. : 00 Date: 01.01.2019
Prepared by ----------	Review by ----------	Approved by ----------	Page 1 of 2

1. **Objective** : To establish a procedure for safe unloading of Ammonia tankers with emphasis on minimizing pollution and WIP generation.

2. **Scope** : Applicable to dispatch Methyl Plant.

3. **Responsibility** : SH production, SIC, Process Controller, Dispatch Officer.

4. **Abbreviations** :

Mtrl. – Material
Dept. – Department,
PPE's –Personnel protective equipment,
SH - Section head,
SIC – Shift In charge

5. **Procedure** :

Sr. No.	Activity Details:
	Unloading of Ammonia tanker
1	On arrival of ammonia Tanker at the gate, security inform Commercial section on phone regarding the same
2	SH Commercial fills the Raw Material / Packing Material Intimation note and handover to driver
3	Security send the vehicle driver with all document in safety dept
4	After Safety check Security prepares vehicle transport pass and get authorization from SIC and allow the tanker inside
5	Intimation Note and send to security for weighing the tanker in presence of SH Commercial /his delegate
6	The tankers is parked near unloading station in SMPV area on SIC Instructions, the dispatch officer guides the driver on the same.
7	SIC/Dispatch officer issues a work permit to Maintenance for connecting Unloading hoses to the tanker.
8	Maintenance fitter connects Vapor & Liquid hoses to respective nozzles & dispatch officer checks continuity of earthling using earthling integrity monitoring system and the joint leaks with slight opening.
9	Dispatch officer sends the Raw Mtrl / Packing Mtrl. Intimation to QC
10	QC Chemist takes the samples from the sample point and care is taken so that minimum amount of material is drained/vented during sampling
11	QC chemist analyzes the samples & note the result on Raw Mtrl / Packing Mtrl Intimation Note & send the form to Dispatch section
12	SIC instruct dispatch officer as per the status of the analytical report for unloading/rejecting.
13	If rejected, the matter is conveyed to SH production for further decision.
14	Dispatch officer confirms the storage tank level and entire quantity can be accommodated in the tank in control room
15	Dispatch officer opens the tanker valves and line up for transfer and ensures there are no leakages from SS hoses, valve glands, seal leaks etc. to minimize pollution. Leakage, if any shall be attended immediately
16	Dispatch officer equalizes pressure of tank & tanker by opening tank & tanker line valves & confirms the pressures on tank & tankers.

ALKYL AMINES CHEMICALS LIMITED, DAHEJ			Document No: WI/DISP/D /1.02
Work Instruction			Issue No. : 01 Date :01.01.2019
Material Unloading of Ammonia tanker			Rev. No. : 00 Date: 01.01.2019
Prepared by ----------	Review by ----------	Approved by ----------	Page 2 of 2

Sr. No.	Activity Details:
17	Dispatch officer inform SIC / Process Controller regarding the unloading and ask him to set respective alarms on panel. Dispatch officer lineup compressor and liquid line of tanker to tank by opening valves.
18	Dispatch officer starts the compressor and confirms that the liquid is being transferred to tank.
19	On completion of liquid transfer, Dispatch officer stops the compressor and reverses the compressor lines position by changing 4 way valve positions.
20	The liquid transfer valves of the tanker are isolated and depressurized the liquid unloading SS hose.
21	Dispatch officer starts compressor and reduce the vapor pressure of the tanker up to 3.5kg/cm2.
22	Dispatch officer stops compressor and isolate the unloading line up.
23	Dispatch officer isolates tanker valves and depressurizes hoses in scrubber
24	SIC issue work permit to Maintenance Dept for disconnection of hoses.
25	Maintenance Fitter disconnects the hoses from the tanker
	The Dispatch officer Stop the Scrubber and isolate the scrubber line-up. Also disconnect earthling
26	Dispatch officer writes the final levels of the tank on the Raw Material / Packing Material intimation note & log Book then send it to Security Dept along with the tanker for weighing.
27	SH Commercial confirms weights & acknowledge the receipt to the driver
28	Use following PPE's-safety shoes, safety goggles, organic vapor mask, uniform , PVC/Neoprene /cotton hand gloves(as when required)
29	If individual gets exposed to chemical/organic vapors take a quick Drench, use shower, eye fountain, remove the contaminated clothing, and cover the affected area with sterile dressing. If required the individual should be send to OHC

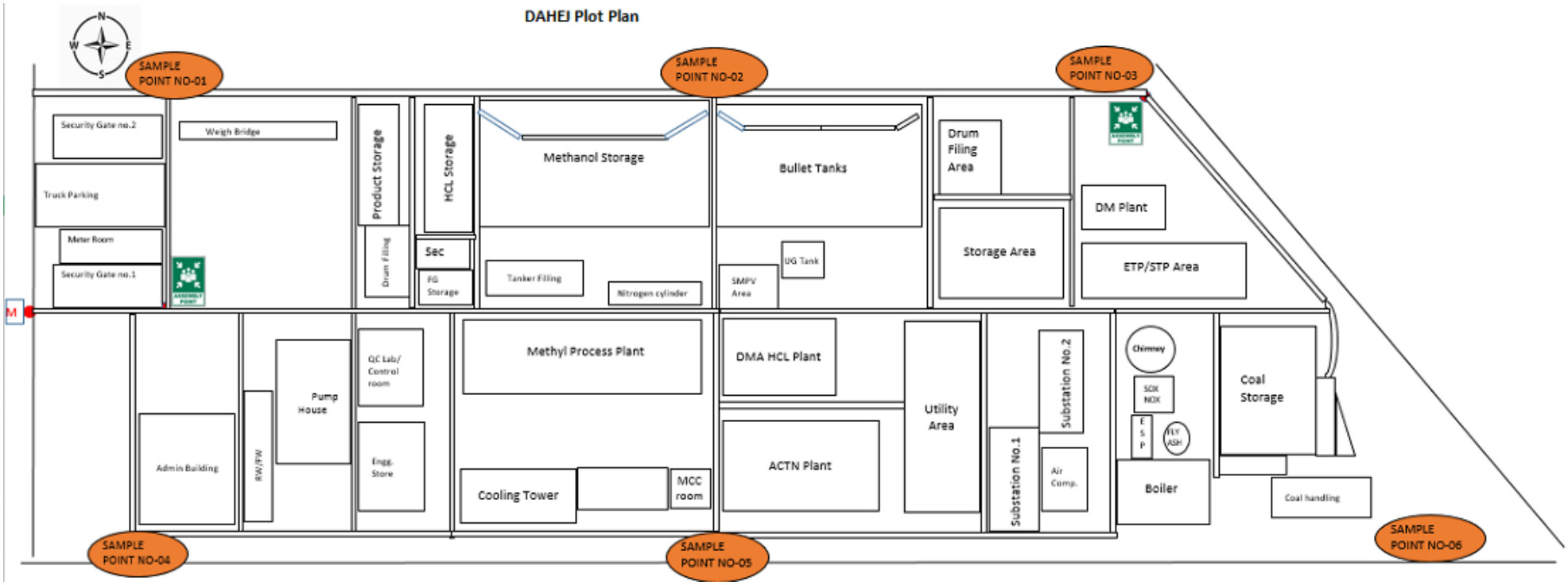
6.0 Reference:

PROD/OHS/D/02
EP/AI/PROD/D/02
FORM/COMM/D/01 - Raw Mtrl / Packing Mtrl intimation Note,
FORM/PROD/D/06 – SIC log book
FORM/PROD/D/07-Dispatch section log book,

7.0 History

Sr. No.	Revision No.	Effective Date Of Change	Reason for Change
1.	00	01.01.2019	Original issue of document

ANNEXURE 43: AMBIENT AIR QUALITY MONITORING STATIONS



ANNEXURE A 1: PREVENTIVE MAINTENANCE CYCLE OF ALL EQUIPMENT

Preventive Maintenance Schedule of Mechanical Department																
SR NO	Fequency	Location	EQUIPMENT	TAG NO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15 Days		BC-1													
2		CHP	Bucket Elevator-1													
3			Vibrating Screen													
4			Crusher Roller -1													
5			Crusher Roller-2													
6			Crusher Roller-3													
7			BC-2													
8			BC-3													
9			Bucket Elevator-2													
10			Vi- bro feeder	-										-		-
11			Lime stone conveyor													
12			DE-dusting system 1 & 2													
13		ACHE	ACHE Fan-1	F11601												
14			ACHE Fan-2	F11602												
15			ACHE Fan-3	F11603												
16			ACHE Fan-4	F11604												
17			ACHE Fan-5	F11605												
18			ACHE Fan-6	F11606												

19		SMPV Area	Ammonia Compressor	K11301										
20	Monthly	Cooling Tower	CT-1 Pump-A	P-11501A										
21			CT-1 Pump-B	P-11501B										
22			CT-1 Pump-C	P-11501C										
23			CT-1 Pump-D	P-11501D										
24			CT-2 Pump-A	P-11502A										
25			CT-2 Pump-B	P-11502B										
26			CT-1 Fan-1	F-11501A										
27			CT-1 Fan-2	F-11501B										
28			CT-2 Fan-1	F-11502A										
29			CT-2 Fan-2	F-11502B										
30			CT to Etp transfer pump	P-16508										

31		DM plant	DM transfer pump-A	P-16507 A												
32			DM transfer pump-B	P-16507 B												
33			Degasser Transfer pump-A													
34			Degasser Transfer pump-B													
35			Degasser Blower-A													
36			Degasser Blower-B													
37			MB blower													
38		Compressor	Compressor-1													
39			Compressor-2													
40		Raw water pump	Raw water transfer pump-A	P-16501 A												
41			Raw water transfer pump-B	P-16501 B												
42			GIDC transfer pump													
43		ETP	Neutralization Tank Transfer pump-1													
44			Neutralization Tank Transfer pump-2													
45			Neutralization Tank Transfer pump-3													
46			Equalization transfer pump													
47			Acid Dosing Tank Transfer pump													
48			Bicarbonate Dosing Tank Transfer Pump													
49			Poly Dosing tank pump													

50			Methanol Dosing Tank Pump															
51			Coagulant Dosing Tank Pump															
52			Lamella Clarifier Pump-1															
53			Lamella Clarifier Pump-2															
54			CETP Transfer Pump-1															
55			CETP Transfer Pump-2															
56			AIR blower for Sludge handling-1															
57			AIR blower for Sludge handling-2															
58			Filter Feed Pump-1															
59			Filter Feed Pump-2															
60			Hypochlorite Dosing Pump															
61			Anoxic Recirculation Pump-1															
62			Anoxic Recirculation Pump-2															
63		STP	Air Blower-1															
64			Air Blower-2															
65			Sewage transfer pump-1															
66			Sewage transfer pump-2															
67			Sludge Recirculation Pump-`1															
68			Sludge Recirculation Pump-`2															
69			Filter Feed Pump-1															
70			Filter Feed Pump-2															
71			L.P. Dosing pump															
72			Treated Water pump-1															

73			Treated Water pump-2														
74			Garden pump-1														
75			Garden pump-2														
76		Boiler	ID Fan														
77			FD Fan														
78			PA Fan														
79			Rotary Feeder 1														
80			Rotary Feeder 2														
81			Rotary Feeder 3														
82			Rotary Feeder 4														
83			BFP – 1														
84			BFP – 2														
85			Screw Feeder 1														
86			Screw Feeder 2														
87			LP Dosing Pump-1														
88			LP Dosing Pump-2														
89			LP Agitator														
90			HP Dosing Pump-1														
91			HP Dosing Pump-2														
92			HP Agitator														
93		Fire House	Fire Water Pump-A	P-16502 A													
94			Fire Water Pump-B diesel driven	P-16502 B													
95			Fire water Jockey pump-1	P-16505													
96			Sprinkler Water Pump-A	P-16503 A													
97			Sprinkler Water Pump-B diesel driven	P-16503 B													

98			Sprinkler water Jockey pump-1	P-16503 C													
99	Quaterly	MAPlant,SMPV,Solution Area,	Methanol feed pump A	P-11101 A													
100			Methanol feed pump B	P-11101 B													
101			Amonia feed pump A	P-11102 A													
102			Amonia feed pump B	P-11102 B													
103			Recycle feed pump A	P-11103 A													
104			Recycle feed pump C	P-11103 C													
105			Recycle feed pump D	P-11103 D													
106			Gas separator btm pump A	P-11104 A													
107			Gas separator btm pump B	P-11104 B													
108			Second column Btm pump A	P11201A													
109			Second column Btm pump B	P11201B													
110			Third column Btm pump A	P11202A													

111			Third column Btm pump B	P1120 2B													
112			Fifth column Btm pump A	P1120 3A													
113			Fifth column Btm pump B	P1120 3B													
114			Condensate feed pump A	P1120 4A													
115			Condensate feed pump B	P1120 4B													
116			Product 1 (MMA) Batch tank Pump A	P1120 5A													
117			Product 1 (MMA) Batch tank Pump B	P1120 5B													
118			Product 2 (DMA) Batch tank Pump A	P1120 6A													
119			Product 2 (DMA) Batch tank Pump B	P1120 6B													
120			Product 3 (TMA) Batch tank Pump A	P1120 7A													
121			Product 3 (TMA) Batch tank Pump B	P1120 7B													
122			Product 1 (MMA) Soln tank pump A	P1120 8A													
123			Product 1 (MMA) Soln tank pump C	P1120 8C													
124			Product 2 (DMA) Soln tank Pump A	P1120 9A													
125			Product 2 (DMA) Soln tank Pump B	P1120 9B													
126			Product 3 (TMA) Soln tank Pump	P1121 0													
127			Vent Absorber 1A pump A	P1121 1A													
128			Vent Absorber 1A pump B	P1121 1B													

129			Vent Absorber 1B pump A	P11212A													
130			Vent Absorber 1B pump B	P11212B													
131			VAW feed pump A	P11213A													
132			VAW feed pump B	P11213B													
133			Seal Water pump	P11214A													
134			Seal Water pump	P11214B													
135			Effluent Pit pump	P11215													
136			LLP flash tank btm pump A	P11216A													
137			LLP flash tank btm pump B	P11216B													
138				P11222													
139			Mazda Vaccume pump	VP11201													
140			Feed 1 (Methanol) unloading pump	P11301													
141			Feed 1 (Methanol) transfer pump A	P11302A													
142			Feed 1 (Methanol) transfer pump B	P11302B													
143			Feed 2 (Ammonia) transfer pump A	P11303A													
144			Feed 2 (Ammonia) transfer pump B	P11303B													
145			Underground drain tank pump	P11304													
146			Pump for Storage tank ST 11401	P11401													

147			Pump for Storage tank ST 11402	P11402													
148			Pump for Storage tank ST 11403	P11403													
149			Pump for Storage tank ST 11404	P11404													
150			Product 1 Solution Storage Tank Pump	P11406													
151			Product 2 Solution Storage Tank Pump	P11407													
152			Product 3 Solution Storage Tank Pump	P11408													
153			PSV Vent Absorber pump A	P11410A													
154			PSV Vent Absorber pump B	P11410B													
155			LLPC Tank Pump A	P-154A													
156			LLPC Tank Pump B	P-154B													
157			Leakproof Pump	P-11411													
158			Leakproof Pump	P-11412													
159			Leakproof Pump	P-11413													
160			TW tank pump A	P-11601A													
161			TW tank pump B	P-11601B													

Scheduled

ANNEXURE 44: PHOTO OF SOLAR LIGHTS

ANNEXURE 45: NOISE MONITORING DATA

Sr. No.	Locations	Range	Day Reading dB(A)	Night Reading dB(A)
1	Nr. Main Gate	Min	53.8	50.2
		Max	56.7	54.0
		Avg.	55.5	52.18
2	Nr. Material Gate	Min	53.9	50.3
		Max	57.6	53.0
		Avg.	56.3	52.1
3	Plant Boundary	Min	52.5	50.1
		Max	56.0	53.9
		Avg.	54.4	52.1
4	Boiler	Min	71.3	64.9
		Max	74.6	69.0
		Avg.	73.2	67.2
5	Nr. ETP	Min	59.8	59.0
		Max	63.7	62.3
		Avg.	62.3	60.3
6	Nr. Storage Tank Scrubber	Min	58.4	56.5
		Max	61.3	60.4
		Avg.	60.1	58.4
7	Nr. Methyl amine plant scrubber	Min	56.4	49.6
		Max	59.2	53.1
		Avg.	58.2	51.5
8	Nr. Admin	Min	70.6	63.4
		Max	74.0	66.9
		Avg.	72.1	65.1
9	Nr. Hazardous Waste Storage Area	Min	65.9	62.2
		Max	69.5	65.1
		Avg.	67.8	63.7
10	Nr. STP	Min	68.0	66.0
		Max	70.4	69.2

		Avg.	69.4	67.9
GPCB limits: Day Time – 75 db(A)				
Night Time – 70 db(A)				

ANNEXURE 46: PESO LICENSE

Ammonia

भारत सरकार/Government of India
वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) /Petroleum & Explosives Safety Organisation (PESO)
आंठवी मंजिल, यश कमल बिल्डींग, सयाजी गंज
वडोदरा- 390020
8th Floor, Yash Kamal Building, Sayajigunj,
Vadodara - 390020

ई-मेल:/E-mail :
dyccebaroda@explosives.gov.in
फोन / फ़ैक्स नंबर:/Phone/Fax No : **0265 - 2225159**

अनुज्ञप्ति सं./No : S/HO/GJ/03/1848(S67686) दिनांक/Dated : **29/11/2022**

सेवा में/To,

M/s. ALKYL AMINES CHEMICALS LIMITED,
D-2/CH/149/2,
GIDC -DAHEJ-II,
Dahej,
Vagra,
Taluka: Vagra,
District: BHARUCH,
State: Gujarat
PIN: 392130

विषय :/Sub : **Plot No, D-2/CH/149/2 (INSTALLATION NO. 1), GIDC DAHEJ-II, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392130 स्थित AMMONIA,METHYL AMINE, गैस के संपीडित पात्र / पात्रों में भंडारण के लिए स्थिर एवं गतिशील दाब पात्र (अज्वलित) नियम, 2016 के अधीन स्वीकृत अनुज्ञप्ति संख्या S/HO/GJ/03/1848 के नवीनीकरण संबंध में /Storage of NAMMONIA,METHYL AMINE gas in pressure vessels at Plot No, D-2/CH/149/2 (INSTALLATION NO. 1), GIDC DAHEJ-II, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392130 - Licence No : S/HO/GJ/03/1848 grant in form LS-1A of SMPV(U) Rules, 2016-Renewal of Licence Regarding**

महोदय/Sir(s),

कृपया आपके दिनांक : 14/11/2022 के पत्र संख्या: **OIN1204162** का संदर्भ ग्रहण करें ।/Please refer to your application No.**OIN1204162** dated 14/11/2022 .

अनुज्ञप्ति संख्या : **S/HO/GJ/03/1848** का नवीकरण दिनांक 30th सितंबर 2027 तक कर इसके साथ अग्रेषित की जा रही हैं । Licence Number: **S/HO/GJ/03/1848** is renewed and is valid upto **30th September 2027** is forwarded herwith.

दिनांक 30/09/**2027** . से आगे अनुज्ञप्ति नवीनीकरण हेतु उपरोक्त नियम के नियम 55 के प्रावधानों का पालन किया जाएं । विलंब शुल्क से बचने हेतु शुल्क के साथ मूल अनुज्ञप्ति तथा अन्य दस्तावेज अधिकतम दिनांक : 30 सितंबर, **2027** तक **The Jt. Chief Controller of Explosives, Vadodara Circle, Vadodara** में जरूर पहुंच जाने चाहिए ।
The provisions of the Rule 55 of the above said rules shall be followed for further renewal of the licence beyond 30/9/**2027**. The renewal application along with fees, Original licence and other documents shall reach in the Office of **The Jt. Chief Controller of Explosives, Vadodara Circle, Vadodara**, latest by 30th September,**2027** to avoid late fee.

कृपया अनुज्ञप्ति प्राप्ति की पावती दें ।/Please acknowledge the receipt of the licence.

भवदीय/Yours faithfully,

((आर.वेणुगोपाल)
(Dr. R.Venugopal))
संयुक्त मुख्य विस्फोटक नियंत्रक
Jt. Chief Controller of Explosives
वडोदरा/Vadodara

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : http://peso.gov.in देखें)
(For more information regarding status,fees and other details please visit our website http://peso.gov.in)

concession in fee for three years in the absence of contravention of the provision of the Indian Explosives Act, 1884, or the Static and Mobile Pressure Vessles (Unfired) Rules,2016, framed thereunder or of the conditions of the licence./अनुज्ञप्ति, भारतीय विस्फोटक अधिनियम, 1884 या उसके अधीन अधीन बनाए गए स्थिर एवं गतिशील दाब पात्र (अज्वलित) नियम, 2016 या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में, फीस में बिना किसी छूट के तीन वर्ष तक नवीकृत की जाएगी।	**29/11/2022**	**30/09/2027**	**Dr. R.Venugopal JCCE For Jt. Chief Controller of Explosives Vadodara**

This licence is liable to be cancelled if the licenced premises are not found conforming to the description and conditions attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable with imprisonment for the term which may extend to two years or with fine which may extend to three thousand rupees or with both./यदि निरीक्षण के समय अनुज्ञप्त परिसर इससे उपाबद्ध विवरण और शर्तों के अनुरुप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है, उनमे से किसी का उल्लंघन होता है तो उस दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्ति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकेगी, या जुर्माने से, जो तीन हजार रुपये तक का हो सकेगा, या दोनों से दण्डनीय भी होगा।

Note:-This is system generated document does not require physical signature.

Methanol

SPEED POST

Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
5th Floor, A-Block, CGO Complex, Seminary Hills,
Nagpur - 440006

E-mail : explosives@explosives.gov.in
Phone/Fax No : 0712 -2510248, Fax-2510577

P/HQ/GJ/15/5481 (P362909)

Dated : 04/12/2017

06 DEC 2017

To,
M/s. Alkyl Amines Chemicals Ltd,
401-407, Nirman Vyapar Kendra Plot No. 10 Sector-17, Vashi,
Mumbai,
District: MUMBAI,
State: Maharashtra
PIN: 400703

Sub : Plot No, D-2/CH/149/2, GIDC DAhe-II, dahej, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392103 पेट्रोलियम वर्ग A का अभिज्ञापन -अनुज्ञप्ति जारी करने के बारे में।

Petroleum Class A installation at Plot No, D-2/CH/149/2, GIDC DAhe-II, dahej, Bharuch, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392103 Grant of License regarding.

Sir(s),

कृपया आपके पत्र क्रमांक AACL/DAHEJ/PESO/2017/5 दिनांक 02/11/2017 का अवलोकन करें।

Please refer to your letter No. AACL/DAHEJ/PESO/2017/5 dated 02/11/2017

विस्फोटकनियम अधिनियम से निर्धारित पेट्रोलियम भंडारों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अधीन प्रपत्र - XV में स्वीकृत, दिनांक 31/12/2026 तक वैध अनुज्ञप्ति संख्या P/HQ/GJ/15/5481 (P362909) दिनांक 04/12/2017 भेजी जा रही है।

Licence No. P/HQ/GJ/15/5481 (P362909) dated 04/12/2017 granted in Form XV under the Petroleum Rules, 2002 and valid till 31/12/2026 for the storage of the following kinds and quantities of Petroleum at the subject installation is forwarded herewith.

पेट्रोलियम का विवरण /Description of Petroleum	लिसेंसशुदा मात्रा /Quantity licenced in KL
वर्ग क थोक पेट्रोलियम /Petroleum Class A in bulk	2000.00 KL
वर्ग क थोक पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख थोक पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख थोक पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग थोक पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग थोक पेट्रोलियम से भिन्न /Petroleum Class C,otherwise then in bulk	NIL
कुल क्षमता /Total Capacity	2000.00 KL

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें और अनुज्ञप्ति के नवीकरण हेतु संपूर्ण दस्तावेजों को अनुज्ञप्ति की वैधता समाप्ति की तारीख या उससे पूर्व Dy. Chief Controller of Explosives, Vadodara को प्रेषित करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Dy. Chief Controller of Explosives, Vadodara, so as to reach his office on or before the date on which Licence expires.

यह अनुमोदन/ अनुमति अन्य प्राधिकारियों से आवश्यक अनुज्ञप्ति/स्वीकृति प्राप्त करने या वहां लागू अन्य विधियों से छूट नहीं देती है।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

भवदीय /Yours faithfully,

(निनाद दत्तात्राम गवडे)
(Ninad Dattaram Gawade))
उप नियंत्रक विस्फोटक
Dy. Controller of Explosives
कृते मुख्य नियंत्रक विस्फोटक
For Chief Controller of Explosives
नागपुर/Nagpur

Copy forwarded to :-
1. The District Magistrate, BHARUCH(Gujarat) with reference to his NOC No POL/NOC/WS/3028/3514/4063 Dated 06/10/2017
2. Jt. Chief Controller of Explosives, West Circle, MUMBAI. A Copy of the licence along with approved plan is enclosed.
3. Dy. Chief Controller of Explosives, Vadodara. A Copy of the licence along with approved plan is enclosed.

For Chief Controller of Explosives
Nagpur

(अधिक जानकारी वेब आर्गेनाइजेशन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट http://peso.gov.in देखें)
(For more information regarding status,fees and other details please visit our website http://peso.gov.in)

Auto sprinkler system

PESO Area Scrubber

Process Plant Scrubber

ANNEXURE 48: MOU

MEMORANDUM OF UNDERTAKING

BETWEEN

SUPPLIER	BUYER
M/s. Alkyl Amines Chemicals Limited	M/s R.K. Steel
D-2/CH/149/2 at Phase – 2, GIDC Dahej, Taluka – Vaghra, Bharuch – 392110.	Plot No – 21,GIDC Estate,Phase-1,Narmada Nagar,Bharuch-392015.

That

As a part of this MOU, the buyer has agreed to accept the**Used/Spent oil** generated from the manufacturing activity of the supplier, the particulates of this MOU in cludingterms & conditions between the Buyer& the Supplier are mentioned herewith.

Sr.No.	Chemicals Name or Materials	Quantity MT/ Annum	Mode of Transport
1	Used/Spent oil	4	Through drumsin truck by road

Buyer agrees to use this Used/Spent oil only as one of their raw materials for recycling their finished product. Buyer has already a valid & necessary permission from the Pollution Control Board under Rule -9Hazardous waste Rules 2016 and has agreed & confirmed &will maintain applicable statutory records.

Terms and Conditions -

- The above material shall be transported **through authorized & GPS Mounted vehicles** only following the guideline prescribed in Hazardous Waste (Management, Handling & Transboundary Movement) Rules 2016.
- **Online Manifest system shall be followed for the generated of Spent/used oil.**
- We will strictly adhere & comply with the Hazardous Waste (Management, Handling & Transboundary Movement) Rules -2016

Signed and delivered for and on behalf or sign and delivered for and on behalf of the

Supplier -

M/s.Alkyl Amines Chemicals Limited

For Alkyl Amines Chemicals Ltd.

Authorised Signatory

Signature

Date - 19/11/2021

Buyer -

M/s. R.K steel

For R. K. STEEL

Proprieto

Signature

Date - 19/11/2021

ANNEXURE 49: NOISE RESULT

UniStar
Environment and Research Labs Pvt. Ltd.

White House
Near G.I.D.C. Office, Char Rasta,
Vapi - 396 195. Gujarat, India.
Phone : +91 260 2433966 / 2425610
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024) | QCI NABET Accredited EIA & GW Consultant Organization | GPCB Recognized Environmental Auditor (Schedule-II) | ISO 9001 : 2015 Certified Company | ISO 45001 : 2018 Certified Company

TEST REPORT

(AMBIENT NOISE LEVEL MONITORING)

Test Report No.:	**URA/23/09/AACL/AN-001**	**Date Of Report:**	**29/09/2023**
Name & Add. of Industries	**M/s. Alkyl Amines Chemicals Ltd.** Plot No. D-2/CH-149/2, GIDC, DAHEJ – II, Dahej-392130, Ta. Vagra, Dist. Bharuch Gujarat		
Sampling Method	**IS : 9989 : 1981**		

➢ **Details of Instrument Used for Monitoring.**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	03/02/2023	02/02/2024

Date and Time of Monitoring : 04/09/2023

Result

DISCIPLINE – CHEMICAL TESTING		**NAME OF GROUP – ATMOSPHERIC POLLUTION**			
Sr. No.	**Location**	**Noise Level dB(A)**		**Permissible Limit CPCB**	
		Day Time (6:00 – 22:00)	**Night Time (22:00 – 6:00)**	**Day Time**	**Night Time**
1.	Near Main Gate	55.6	51.2	**75 dB (A)**	**70 dB (A)**
2.	Near Material Gate	56.1	50.3	**75 dB (A)**	**70 dB (A)**
3.	Plant Boundary	53.7	52.4	**75 dB (A)**	**70 dB (A)**
4.	Near Boiler	71.3	64.9	**75 dB (A)**	**70 dB (A)**
5.	Near ETP	59.8	59.0	**75 dB (A)**	**70 dB (A)**
6.	Near Methylamine Plant scrubber	59.3	57.5	**75 dB (A)**	**70 dB (A)**
7.	Near Admin	58.1	50.5	**75 dB (A)**	**70 dB (A)**
8.	Near Storage Tank Scrubber	71.0	65.0	**75 dB (A)**	**70 dB (A)**
9.	Near Hazardous Waste Storage Area	66.7	62.2	**75 dB (A)**	**70 dB (A)**
10.	Near STP	68.0	68.1	**75 dB (A)**	**70 dB (A)**

Note: Ambient Air Quality Standards in respected of Noise as per CPCB.

Area Code	**Category of Area/Zone**	**Limit in dB (A) Leq**	
		Day Time (6:00 am to 10:00 pm)	**Night Time (10:00 pm to 6:00 am)**
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

Remarks:
Opinion & Interpretation (if required):

****** End of Report *******

Checked By:
Nikunj D. Patel
(Chemist)

Authorized By:
Jatrik S. Patel
(Manager - Operations)

Page No.: 25

UERL/AIR/F-18/03

Note: This report is subject to Terms and Conditions mentioned overleaf.

ANNEXURE 50: FLY ASH PO

Alkyl Amines Chemicals Ltd.

Regd. Office : 401-407, Nirman Vyapar Kendra, Plot No. 10, Sector 17, Vashi, Navi Mumbai 400703. (INDIA)
Tel.: 022-6794 6600. fax : 022-6794 6666. E-mail : alkyl@alkylamines.com Visit us at : www.alkylamines.com

Responsible Care®

PURCHASE ORDER

Issue No. 03 Dt. 01.01.2022 Rev. No. 00 Dt. 01.01.2022 Doc. No. FORM/PUR/V/05

Supplier Name and Address	Billing and Shipping Address			
MANTRA PAVER & CEMENT ARTICLES NAUGAMA , TALUKA - ANKLESHWAR DIST. BHARUCH GUJARAT ANKLESHWAR 392011	Alkyl Amines Chemicals Limited Plot No. D-2/CH/149/2, GIDC Dahej-2 Industrial Area, Tal. Vagra, Dist. Bharuch 392110	PO Number	3600001099	Date 28-04-2023
		Quotation No.	2600001136	Date 28-04-2023
		Requisition No.	1600001072	Date 15-04-2023
		Validity Date	31-03-2024	
		Amendment No.	1	Date 04-07-2023
		Inco Terms		
Supplier Code 601100	PAN No. AAACA6783F			
GST No. 24ABFFM1732R1ZZ	GST No. 24AAACA6783F1ZS	Mode of transport		
Quotation Ref.	State Gujarat			
	State Code 24			

Terms of payment AGAINST COMPLETION JOB & CERTIFIED BILLS IN 7 DAYS
Dispatched through
Remarks

Sr.No	Item Code & Description	Delivery Date	Quantity	Unit	Rate	Value
1	**Fly ash disposal charges** Boiler-1&2 fly ash disposal charges from 1st April-2023 to 31st March-2024 Vendor: Mantra Paver & cement articles Per MT disposal cost: Rs 600/-(As per last PO to same vendor ref PO NO. 5000017624 DTD 23.04.2022					
	S04117 - BOILER FLY ASH DISPOSAL	31-03-2024	674.000	MT	600.00	4,04,400.00
	SGST - State GST				2.50 %	10,110.00
	CGST - Central GST				2.50 %	10,110.00
	S04117 - BOILER FLY ASH DISPOSAL	31-03-2024	644.000	MT	600.00	3,86,400.00
	SGST - State GST				2.50 %	9,660.00
	CGST - Central GST				2.50 %	9,660.00
	S04117 - BOILER FLY ASH DISPOSAL	31-03-2024	2,326.000	MT	600.00	13,95,600.00
	SGST - State GST				2.50 %	34,890.00
	CGST - Central GST				2.50 %	34,890.00
	S04117 - BOILER FLY ASH DISPOSAL	31-03-2024	2,356.000	MT	600.00	14,13,600.00
	SGST - State GST				2.50 %	35,340.00
	CGST - Central GST				2.50 %	35,340.00

Amount in words : Rupees Thirty-seven Lakh Eighty Thousand Only

Total Basic Value (INR)	36,00,000.00
Total Taxes	1,80,000.00
Total PO Amount (INR)	37,80,000.00

Please supply the goods/services to us as per delivery schedule and terms and conditions mentioned in the Purchase Order.
Certificate of Analysis should be send along with the material.

For ALKYL AMINES CHEMICALS LTD.

Authorised Signatory

This is electronically generated document and requires no signature

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