

Ref:MoEF/EC/JNPT/301122

Date: 30th November, 2022

To,
Scientist 'B',
Ministry of Environment, Forest & Climate Change,
Regional Office (WCZ),
Ground Floor, East Wing,
New Secretariate Building, Civil Lines,
Nagpur – 440 001.

Sub: Six monthly Compliance report (for the period April 2022 to September 2022) for Environment Clearance (EC) No. 10-26/2007-IA-III dated 27/08/2007 for storage of Liquid Ammonia at JNPT.

Dear Sir,

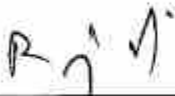
With reference to the subject matter, please find attached herewith the six monthly EC compliance report (for the period April 2022 to September 2022) for EC No. 10-26/2007-IA-III dated 27/08/2007 issued to our unit located at JNPT for storage & handling of imported Ammonia.

Kindly note that EC has been transferred from M/S Deepak Fertilisers and Petrochemicals Corporation Limited to M/S Smartchem Technologies Limited vide MoEF & CC letter dated 25th January 2021.

Kindly acknowledge the same.

Yours faithfully,

For, **SMARTCHEM TECHNOLOGIES LIMITED,**



Rajendra Thorat,
Vice President – Operations.

CC : Regional Officer, MPCB, CBD-Belapur, Navi Mumbai

List of Attachments

Sr. No.	Attachments	Number of pages
1	Six Monthly EC Compliance Report	3
2	Copy of EC (in DFPCL name) dated 27.08.2007.	4
3	Copy of letter from MoEF & CC for EC transfer from M/S Deepak Fertilisers and Petrochemicals Corporation Limited to M/S Smartchem Technologies Limited dated 25 th January 2021.	2
	Laboratory Reports (M/S GADARK Lab.)	
4	Annexure-1- Ambient Air Analysis (04-04-2022 and 06-07-2022)	2
5	Annexure-2 –Groundwater and Soil analysis reports (04-04-2022).	3
6	Annexure 3 – MPCB Consent to operate in DFPCL name dated 26.06.2020 valid up to 30.06.2025.	9
7	Annexure 4 – MPCB Consent to Operate dated 15-07-2021 – for name change in STL name.	2

Compliance Status to Environment Clearance No. 10-26/2007-IA-III dated 27/08/2007 for storage of Liquid Ammonia at JNPT (for the period April 2022 to September 2022) :-

EC has been transferred from M/S Deepak Fertilisers and Petrochemicals Corporation Limited to M/S Smartchem Technologies Limited vide MoEF & CC letter dated 25th January 2021.

Date:- 30/11/2022

SPECIFIC CONDITIONS:

Sr. No.	Type of Compliance	Status: Complied / Not complied / Not Applicable
1	The project proponent should implement all the measures that have been suggested by them in the clarification letter dated 24 th May, 2007 provided to the Ministry of Environment and Forests. (MoEF)	All the measures are complied.
2	Damage distance for thermal radiation, over pressure and toxic dispersion should be considered while transporting the products.	Maximum Credible Loss Scenario (MCLS) Study is carried out in September – 2016. QRA study conducted in 2019 for ammonia storage & handling facilities.
3	Precautions against damage to the vapour cloud explosion should be adopted. Precautions may be taken to avoid release of vapour to the atmosphere. Leakage of ammonia during transfer should be prevented.	Ongoing, measures are in place.
4	The recommendations given by the Cell for Industrial Safety and Risk Analysis of CLRI should be strictly followed.	Not relevant, but recommendations arising out of EIA, RRA by Projects & Development India Ltd (PDIL), Dhanbad and Uhde (I) Ltd are complied.
5	Monitoring of Ambient Air Quality (AAQ) (8 hourly presently) should be done in accordance with CPCB guidelines.	Complied & reports are attached. (Annexure 1)
6	Monitoring of ground water & soil quality near the storage areas should be carried out six monthly.	Complied & reports are attached. (Ground water & Soil quality report as Annexure 2)
7	Flow meters at inlet & final outlet of Oil Water Separators (2 Nos) should be installed.	Not applicable
8	Sensors for detecting ammonia leakage should be installed at strategic locations.	Complied – 8 Nos of Detectors are installed in the field with alarms in DCS.
9	The MSIHC Rules should be effectively implemented and revised HAZOP Report should be submitted within six months from the date of receipt of this letter. The damage distance should also be reassessed.	Complied & HAZOP compliance report details are sent on 22/02/2013.
10	All the conditions stipulated by the Maharashtra Pollution Control Board vide Consent No. BO/RONM/EIC-0448-06/E/CC-303 dated 02/08/2006 should be strictly implemented.	Complied Consent to Operate No. Format1.0 /CAC/UAN No.0000091906/CR-2006001159 dated 26/06/2020 validity upto 30/06/2025. (Annexure 3) . Consent amended dated 15-07-2021 and name

Sr. No.	Type of Compliance	Status: Complied / Not complied / Not Applicable
		changed to Smartchem Technologies Limited – (Annexure 4)
11	Leak detection / warning system for each of the chemicals to be handled should be provided at the jetty as well as at other strategic locations. Necessary control measures capable of remote operation to shut down the leakage, if any, should be provided.	1. Complied – Motor operated valves are provided which are interlocked with pressure & leak detectors. 2. Continuous Flare system is provided.
12	Appropriate safety devices such as masks should be provided for use by the workers handling the chemicals at the site and their usage by them should be ensured.	Appropriate PPEs are provided and its usage is strictly ensured.
13	No chemicals other than those specified in the Annexure-III of the CRZ Notification, 1991 as amended subsequently shall be stored in the CRZ area.	Noted and only specified chemicals are stored.
14	Regular monitoring of the levels of ammonia in the air by environment shall be monitored and records maintained. The periodic report (six monthly) to be submitted to the Regional Office of this Ministry at Bhopal should also contain information about the ammonia level so monitored.	Complied & reports are attached. (Annexure 1)
15	All approvals from Central and State nodal agencies including OISD, Chief Controller of Explosives, Chief Inspectorate of Factories must be obtained. A Comprehensive Contingency Plan / Disaster Management Plan must be prepared in collaboration with the concerned authorities and a copy submitted to this Ministry before commissioning of the project.	On-site Emergency plan is prepared and Mockdrills are conducted regularly.
16	No mangroves or ecological sensitive areas should be damaged while undertaking the above project.	Noted.

GENERAL CONDITIONS:-

Sr. No.	Type of Compliance	Status: Complied / Not complied / Not Applicable
1	A separate Environmental Management Cell with suitably qualified staff to carry out various environment related functions should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.	Separate EHS Department is set up.
2	The project will be monitored by this Ministry's Regional office at Bhopal. Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during the inspection for monitoring purposes by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection	Noted.

Sr. No.	Type of Compliance	Status: Complied / Not complied / Not Applicable
	activities.	
3	In case of deviation or alteration in the project including the implementing agencies, a fresh reference should be made to this Ministry for modification in the clearance conditions or impositions of new ones for ensuring environmental protection. The project proponents shall be responsible for implementing the suggested safeguard measures.	Noted.

Sr. No.	Type of Compliance	Status: Complied / Not complied / Not Applicable
4	This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Noted.
5	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	Noted.
6	A copy of the clearance letter shall be marked to the concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	Copy of Clearance Letter is uploaded on Website.
7	State Pollution Control Board / Committee should display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office / Tehsildar's Office for 30 days.	Noted.
8	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the the Maharashtra Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forests at http://www.envfor.nic.in The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.	Complied & details are sent on 26/02/2013.
9	The project proponents should inform the Bhopal Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	-
10	Separate clearance shall be obtained by individual project proponents for handling and storage of these chemicals.	Noted.

No.10-26/2007-1A-III
Government of India
Ministry of Environment and Forests
(LA-III Division)

Paryavaran Bhavan,
CGO Complex, Lodhi Road,
New Delhi - 110003.

Dated the 27th August, 2007

Sub: Environmental clearance for storage and handling of imported ammonia at JNPT, Nava Sheva by M/s Deepak Fertilizers and Petrochemicals Corporation Limited (DFPCL) - regarding.

Reference is invited to the letter No.MCZMA2006/166, dated 31.7.2007 from Environment Department, Government of Maharashtra and letters No Nil, dated 3rd April, 2007, dated 5th April, 2007 and dated 24th May, 2007 from M/s Deepak Fertilizers and Petrochemicals Corporation Limited regarding the subject mentioned above. No Objection Certificate from Maharashtra Pollution Control Board vide Consent No.BO/RONM/EIC-0448-06/E/CC-303, dated 2.8.2006 has been obtained.

2. The project involves putting up storage and handling facility (15000 MT) for liquid Ammonia at JNPT Terminal. M/s DFPCL proposes to utilize liquid ammonia for manufacture of ammonia based fertilizers/fertilizers intermediates such as nitric acid, ammonium nitrate, urea and NPK Complex etc. The liquid ammonia will be pumped to storage tank through 16"718" insulated pipeline from jetty to tank farm. The approximately length of the pipe is 4.2 km. Marine unloading arm of 8"10" size is foreseen with hydraulic operation. The main facilities for import, storage and despatch are as follows -

- (i) Marine unloading arm at the jetty
- (ii) Pipeline for transfer through pipe rack
- (iii) Cooling line
- (iv) Atmospheric Ammonia storage tank
- (v) Refrigeration compressors
- (vi) Boil off compressors
- (vii) Ammonia transfer pumps
- (viii) Tank lorry loading bay

3. Land area required for the project is 150 m X 100 m (including old facilities). The main raw material, liquid ammonia will be received at the liquid cargo jetty in ships through import. The sources of Ammonia are to be identified. Power for operating the facilities will be received from State electric grid through the electric sub-station. HSD for operating the DG set will be received at the site from indigenous sources in tank lorries and stored in an underground tank. Water for the project will be supplied by MIDC. Liquid ammonia is brought ships having a capacity of 9000-14000 MT, once or twice in a month, which will be unloaded by coupling of ship pump manifold to the unloading arm located on the jetty. The unloading rate of liquid ammonia from ship vis-à-vis feeding rate to the storage tank will be about 400 to 700 MT/hr.

4. The proposal was considered by Expert Appraisal Committee at its meeting held on 19th - 21st April, 2007 and has recommended.

5. The proposal has been examined and the environmental clearance to this project is hereby accorded under Coastal Regulation Zone Notification, 1991 (amendment to Coastal Regulation Zone Notification 1991 vide S.O. 451(E), dated 26.3.2007) and Environment Impact Assessment Notification, 1971/2006 subject to effective implementation of the following environmental safeguards and conditions -

(A) Specific Conditions:


1. The project proponent should implement all the measures that have been suggested by them in the clarification letter dated 24th May, 2007 provided to the Ministry of Environment and Forests.
2. Damage distance for thermal radiation, over pressure and toxic dispersion should be considered while transporting the products.
3. Precautions against damage to the vapour cloud explosion should be adopted. Precautions may be taken to avoid release of vapour to the atmosphere. Leakage of ammonia during transfer should be prevented.
4. The recommendations given by the Cell for Industrial Safety and Risk Analysis of CLRI should be strictly followed.
5. Monitoring of Ambient Air Quality (AAQ) (8 hourly presently) should be done in accordance with CPCB guidelines.
6. Monitoring of ground water & soil quality near the storage areas should be carried out six monthly.
7. Flow meters at inlet & final out let of Oil Water Separator (2 nos.) should be installed.
8. Sensors for detecting ammonia leakage should be installed at strategic locations.
9. The MSIHC Rules should be effectively implemented and revised HAZOP Report should be submitted within 6 months from the date of receipt of this letter. The damage distance should also be reassessed.
10. All the conditions stipulated by the Maharashtra Pollution Control Board vide Consent No.BO/ROM/EIC-0448-06/E/CC-303, dated 2.8.2006 should be strictly implemented.
11. Leak detection/warning system for each of the chemicals to be handled should be provided at the jetty as well as at other strategic locations. Necessary control measures capable of remote operation to shut down the leakage, if any, should be provided.
12. Appropriate safety devices such as masks should be provided for use by the workers handling the chemicals at the site and their usage by them should be ensured.
13. No chemicals other than those specified in the Annexure-III of the CRZ Notification, 1991 as amended subsequently shall be stored in the CRZ area.
14. Regular monitoring of levels of ammonia in the air environment shall be monitored and records maintained. The periodic report (six monthly) to be submitted to the Regional Office of this Ministry at Bhopal should also contain information about the ammonia level so monitored.
15. All approvals from Central and State nodal agencies including OISD, Chief Controller of Explosives, Chief Inspectorate of Factories must be obtained. A Comprehensive Contingency Plan/Disaster Management Plan must be prepared in collaboration with the concerned authorities and a copy submitted to this Ministry before commissioning of the project.
16. No mangroves or ecological sensitive areas should be damaged while undertaking the above project.

(B) General Conditions:

1. A separate Environmental Management Cell with suitably qualified staff to carry out various environment related functions should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.

- ii. The project will be monitored by this Ministry's Regional Office at Bhopal. Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during the inspection for monitoring purposes by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.
- iii. In case of deviation or alteration in the project including the implementing agencies, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponents shall be responsible for implementing the suggested safeguard measures.
- iv. This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.
- v. This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.
- vi. A copy of the clearance letter shall be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- vii. State Pollution Control Board/Committee should display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's Office for 30 days.
- viii. The project proponent should advertise atleast in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Maharashtra Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at <http://www.envfor.nic.in>. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.
- ix. The project proponents should inform the Bhopal Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.
- x. Separate clearance shall be obtained by individual project proponents for handling and storage of these chemicals.

6. The above mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 as amended subsequently and the Public Liability Insurance Act, 1991 and the Rules made thereunder from time to time. The project proponents should also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Gujarat State and the Supreme Court's order dated 18th April, 1996 in the Writ petition No.664 of 1993 to the extent the same are applicable to this proposal.



 (Dr. A. Senthil Vel)
 Additional Director

To

Ms. Sharwaree Gokhale,
 Chairman,
 Maharashtra State Coastal Zone Management Authority, &
 Principal Secretary, Environment Department,
 Mantralaya, Mumbai-400022.

Copy to:

1. The Secretary, Ministry of Oil & Natural Gas, Shastri Bhavan, New Delhi-1
2. General Manger - Coordination Limited, M/s Deepak Fertilizers and Petrochemicals Corporation Limited, S-1, First Floor, Panchshila Park, New Delhi - 110017.
3. The Member Secretary, Maharashtra State Coastal Zone Management Authority & Deputy Secretary, Mantralaya, New Administrative Building, 15th Floor, Madam Cama Marg, Mumbai - 400032.
4. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110 032.
5. Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th Floors, Opp. Cine Planet, Sion Circle, Mumbai-400 022.
6. The Chief Conservator of Forests, Regional Office (WZ), Kendriya Paryaveeran Bhavan, Link Road No.3, Ravi Shankar Nagar, Bhopal - 462016.
7. Chief Controller of Explosives, Department of Explosives, Nagpur.
8. Director (FI), Ministry of Environment & Forests, New Delhi.
9. Guard File.
10. Monitoring Cell
11. Regional Office (HQ), Ministry of Environment & Forests.


(Dr. A. Senthil Vel)
Additional Director

F. No. 10-26/2007-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
(IA-III Section)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003
E-mail: ad.raju@nic.in
Tel: 011-24695296

Dated: 25th January, 2021

To

Sh. Deepak Shashikant Pande

Head – EHS

M/s Deepak Fertilisers And Petrochemicals Corporation Limited

Plot No. K-1 to K-5, Taloja MIDC, Dist. Raigad- 410208

Subject: Environmental & CRZ Clearance obtained for the Storage and Handling of Imported Ammonia at JNPT , Nava Sheva by Deepak Fertilisers and Petrochemicals Corporation Limited" - Transfer of Environmental Clearance regarding.

Sir,

This has reference to your letter No. 'Nil', dated 6th June, 2020 regarding the transfer of Environment Clearance (EC) from M/s Deepak Fertilisers and Petrochemicals Corporation Limited (DFPCL) to M/s Smartchem Technologies Limited for the project mentioned above.

2.0 It has been noted that the project mentioned above was accorded environmental clearance by the Ministry *vide* letter of even number dated 27th August, 2007. Ministry has examined your application regarding transfer of EC and noted that M/s Deepak Fertilisers and Petrochemicals Corporation Limited has transferred the "handling of imported ammonia at JNPT" dated 13th November 2019.

3.0 No Objection Certificate/Affidavit from M/s Deepak Fertilisers and Petrochemicals Corporation Limited in a non-judicial stamp paper for transfer of environmental and CRZ clearance letter dated 27th August, 2007 to M/s Smartchem Technologies Limited has been received. In addition, the undertaking mentioning that M/s Smartchem Technologies Limited shall comply with all the conditions mentioned in the Environment Clearance has been received.

4.0 In view of the above, it has been decided by the Ministry to transfer the Environment and CRZ Clearance accorded to M/s Deepak Fertilisers and Petrochemicals Corporation Limited *vide* letter of even number dated 27th August, 2007 in the name of M/s Smartchem Technologies Limited.

5.0 You are requested to obtain 'Consent to Establish' and 'Consent to Operate' from the State Pollution Control Board concerned in the name of M/s Smartchem Technologies Limited.



6.0 M/s Smartchem Technologies Limited shall comply with all the specific and general conditions stipulated in the environmental and CRZ clearance of even no. dated 27th August, 2007. All other conditions stipulated in the environmental and CRZ clearance letter shall remain the same.

7.0 In case, there is a change in the scope of the project, fresh environmental and CRZ clearance shall be obtained.

This issues with the approval of the Competent Authority.


(Amardeep Raju)
Scientist-E

Copy to:

- i. The Principal Secretary, Department of Forests & Environment and Chairman, MCZMA, Govt. of Maharashtra, Annexe Building, Mantralaya, Mumbai- 32.
- ii. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32
- iii. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Points, 3rd & 4th Floor, Opp. Cine Planet, Sion Circle, Sion €, Mumbai-400 022, Maharashtra.
- iv. The APCCF (C), MoEF& CC, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur-440 001, Maharashtra.
- v. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- vi. Guard File/Record File
- vii. Notice Board.


(Amardeep Raju)
Scientist-E



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C, Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/04/26	Test Report Date	09/04/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO. 1, JNPT, NHAVA SHEVA, TAL., URAN, DIST. - RAIGAD		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	05/04/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	06/04/2022 To 09/04/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Phosphoric Acid MCC Room			
Date of Sampling	04/04/2022			
Time of Sampling [Hrs]	12:30			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	26	Max.	34
Relative Humidity [%]	Min.	40	Max.	65

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.55	100.0	IS 5182 (Part XXIII) 2008
PM _{2.5}	µg/m ³	29.27	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	33.42	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.15	80.0	IS 5182 (Part VI) 2005
CO	mg/m ³	1.15	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.10	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	4.76	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	1.60	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	4.39	20.0	IS 5182 (Part XXII) 2004

*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

CHECKED BY

Note :

1. The results relate only to the samples tested.
2. Test Report shall not be reproduced except in full, without written approval of the laboratory.
3. Samples will be preserved for a period 15 days from the delivery of Test Report.
4. Test Results relate only to the conditions prevailing at the time of sampling.
5. Customer complaint register is available at laboratory.



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.
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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

Handwritten signature
EHS

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/07/91	Test Report Date	12/07/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO. 1, JNPT, NHAVA SHEVA, TAL., URAN, DIST. - RAIGAD		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	07/07/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	08/07/2022 To 12/07/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Phosphoric Acid MCC Room			
Date of Sampling	06/07/2022			
Time of Sampling [Hrs]	11:30			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	24	Max.	28
Relative Humidity [%]	Min.	45	Max.	62

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	62.48	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	31.55	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.42	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	33.98	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.04	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.10	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	5.31	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	2.08	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	4.98	20.0	IS 5182 (Part XXII) 2004

*N.A.A.Q.S. - National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

Handwritten signature

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

Handwritten signature

CHECKED BY

Note:

1. The results relate only to the samples tested.
2. Test Report shall not be reproduced except in full, without written approval of the laboratory
3. Samples will be preserved for a period 15 days from the delivery of Test Report
4. Test Results relate only to the conditions prevailing at the time of sampling.
5. Customer complaint register is available at laboratory



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/22/0830	Test Report Date	09/04/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO 1, JNPT, NHAVA SHEVA, TAL-URAN, DIST. - RAIGAD.		
Letter Ref/Date	---		
Lab Reference No.	GW/O/22/0830	Page No.	1 of 2
Sampling Done By	GLPL On 04/04/2022	Sample Received on	05/04/2022
Sample Collected by	GLPL	Analysis Period	05/04/2022 To 09/04/2022
Sample Description	Ground Water Sample, 1 lit in plastic bottle & 100 ml in glass bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per IS 10500 / 2012		Methods
			Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
Color (Pt. Scale)	Colour Unit	< 1.0	5.0 Max.	15.0 Max.	APHA 2120 B
Odor	---	Agreeable	Agreeable	Agreeable	APHA 2150 B
Taste	---	Agreeable	Agreeable	Agreeable	APHA 2160 A
pH	---	7.29	6.5 - 8.5	No Relaxation	APHA 4500 H'
Turbidity	NTU	0.4	1.0 Max.	5.0 Max.	APHA 2130 B
Total Hardness as CaCO ₃	mg/ltr	140	200.0 Max.	600.0 Max.	APHA 2340 C
Free Residual Chlorine	mg/ltr	Nil	0.2 Min.	1.0 Max.	APHA 4500 Cl ⁻ B
Total Dissolved Solids at 180°C	mg/ltr	215	500.0 Max.	2000.0 Max.	APHA 2540 C
Calcium	mg/ltr	32.06	75.0 Max.	200.0 Max.	APHA 3500 Ca B
Chlorides	mg/ltr	50.48	250.0 Max.	1000.0 Max.	APHA 4500 Cl ⁻ B
Sulphate	mg/ltr	11	200.0 Max.	400.0 Max.	APHA 4500 SO ₄ ²⁻ E
Nitrate	mg/ltr	0.88	45.0 Max.	No Relaxation	APHA 4500 NO ₃ B
Fluoride	mg/ltr	0.094	1.0 Max.	1.5 Max.	APHA 4500 F ⁻
Phenolic Compounds	mg/ltr	< 0.001	0.001 Max.	0.002 Max.	IS 3025
Cyanide	mg/ltr	< 0.001	0.05 Max.	No Relaxation	APHA 4500 E
Anionic Detergents [as MBAS]	mg/ltr	< 0.001	0.2 Max.	1.0 Max.	APHA 5540
Polynuclear Aromatic Hydrocarbon	mg/ltr	< 0.0001	0.0001 Max.	No Relaxation	APHA 5440
Mineral Oil	mg/ltr	< 0.1	0.5 Max.	No Relaxation	APHA 5520 B
Total Alkalinity	mg/ltr	61.35	200.0 Max.	600.0 Max.	APHA 2320 B
Aluminum	mg/ltr	0.002	0.03 Max.	0.2 Max.	APHA 3111 B
Boron	mg/ltr	0.018	0.5 Max.	1.0 Max.	APHA 4500 B - B
Cadmium	mg/ltr	0.001	0.003 Max.	No Relaxation	APHA 3500 Cd
Copper	mg/ltr	0.03	0.05 Max.	1.5 Max.	APHA 3111 B
Iron	mg/ltr	0.09	1.0 Max.	No Relaxation	APHA 3111 B
Lead	mg/ltr	< 0.001	0.01 Max.	No Relaxation	APHA 3111 B
Manganese	mg/ltr	0.04	0.10 Max.	0.30 Max.	APHA 1111 B

Contd...2/..

[Handwritten Signature]
EHS



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.
Tel.: (02362) 223519 • E-mail: info@gadark.in • Website: www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.
Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

GADARK LAB PVT. LTD.

::: 2 :::

Mercury	mg/ltr	< 0.001	0.001 Max.	No Relaxation	APHA 3112 B
Selenium	mg/ltr	< 0.001	0.01 Max.	No Relaxation	APHA 3114 B
Total Arsenic	mg/ltr	< 0.001	0.01 Max.	0.05 Max.	APHA 3111 B & C
Total Chromium	mg/ltr	0.001	Not Specified	Not Specified	APHA 3500 Cr B
Zinc	mg/ltr	0.11	5.0 Max.	15.0 Max.	APHA 3111 B

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

CHECKED BY

Note:

1. Results relate only to the sample/s tested, only in case of samples submitted by customer & not drawn by GLPL.
2. Test Report shall not be reproduced except in full, without written approval of the laboratory.
3. Samples will be preserved for a period 15 days from the delivery of Test Report.
4. Customer complaint register is available at laboratory.



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C, Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No: GLPL/QF/7.8/07


Test Report No.	GS/O/22/0037	Test Report Date	14/04/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO 1, JNPT, NHAVA SHEVA, TAL-URAN, DIST. - RAIGAD.		
Letter Ref/Date	---		
Lab Reference No.	GS/O/22/0037	Page No.	1 of 1
Sampling Done By	GLPL On 04/04/2022	Sample Received on	05/04/2022
Sample Collected by	GLPL	Analysis Period	05/04/2022 To 14/04/2022
Sample Description	Soil Sample, 1 Kg in plastic bag		

ANALYSIS REPORTS:

Parameters	Units	Test Results
pH (1:5 Suspension)	---	7.05
Available Nitrogen	Kg/Hect	96.5
Available Phosphorus	Kg/Hect	12
Available Potassium	Kg/Hect	42
Moisture	%	22.5
Density	gm/ml	0.58
Chlorides	%	0.036
Sulphates	%	0.048
Phosphates	%	0.00019
Organic Matter	%	2.21
Water Holding Capacity	%	53
Sodium Absorption Ration (SAR)	---	9.6
Toxicity Characteristics Leaching Procedure (TCLP)		
Mercury	ppm	< 0.001
Lead	ppm	0.02
Arsenic	ppm	< 0.001
Cadmium	ppm	0.058
Chromium	ppm	< 0.001
Soil Toxicity Organics		
Methyl Ethyl Ketone	ppm	< 0.001
Tetrachloroethylene	ppm	< 0.001
Lindane,	ppm	< 0.001
Chlorobenzene	ppm	< 0.001

End

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]


CHECKED BY

Note:

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4. Customer Complaint register is available at laboratory.



Maharashtra Pollution Control Board
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MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/L-5.1 ()

No:- Format 1.0/CAC/UAN No.0000091906/CR - 2006001159

Date: 26/06/2020

To,
M/s Deepak Fertilisers and Petrochemicals Corporation Ltd.,
Plot No.1, JNPT Tank Farm Area, A/p Nhava, JNPT Tank Farm,
Tal. Uran, Dist. Raigad.

Sub: Grant of renewal of Consent to Operate for storage and handling of Phosphoric acid and Liquid Ammonia (atmospheric pressure).

Ref: 1. Previous Consent to Operate accorded by the Board vide No. Format 1.0/BO/CACCell/ EIC No. NM-5001-14/2nd CAC-3770 dtd. 17/03/2016.
2. Minutes of Consent Appraisal Committee meeting held on 04/05/2020.

Your application No.MPCB-CONSENT-0000091906 Dated 19.04.2020

For: grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the Consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent to renewal is granted for a period up to 30/06/2025
- The capital investment of the project is Rs.119.2659 Crs. (As per C.A Certificate submitted by industry Existing-Rs. 119.98 Crs + Expansion/Increase in C.I. - Rs. (-) 0.72 Crs)
- Consent is valid for the manufacture of:

Sr No	Product	Maximum Quantity	UOM
Products			
1	Storage & handling of Liquid Ammonia (Atmospheric Pressure)	15000	MT
2	Storage & handling of Phosphoric Acid	7000	KLtr.
3	Storage & handling of Phosphoric Acid	7000	KLtr.

Note: All Storage tanks are for captive consumption only.

- Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	6	As per Schedule-I	On land for gardening
2.	Domestic effluent	1.9	As per Schedule-I	Soaked in soak pit



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5. Conditions under Air (P & CP) Act, 1981 for air emissions:

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S-1 & S-2	DG Sets (500 & 625 KVA)	2	As per Schedule-II

6. Non-Hazardous Wastes:

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	NA	0	-NA-	NA	NA

7. Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	1	MT/A	Recycle	Sale to Auth. Party/ Recycler through Sister concern unit at Plot No. K-8, MIDC Talaja
2	5.2 Used Oil Filters	35	Nos./Y	Incineration/ Secured Landfill	CHWTSDf through Sister concern unit at Plot No. K-8, MIDC Talaja

- The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
- This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
- Industry shall comply with the provisions of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989.
- Industry shall extend existing Bank Guarantee towards compliance of Consent conditions.

For and on behalf of the
Maharashtra Pollution Control Board.

(E. Ravendran IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	1027523.00	MPCB-DR-0198	02/05/2020	RTGS

Balance amount of Rs. 1,65,136/- of previous Consent to Operate accorded by the Board vide No. Format 1.0/BO/CACCell/ EIC No. NM-5001-14/2nd CAC-3770 dtd. 17/03/2016 is taken into account for renewal of Consent.

Copy to:

- Regional Officer, MPCB, Navi Mumbai and Sub-Regional Officer, MPCB, Talaja
- They are directed to ensure the compliance of the consent conditions.
- Chief Accounts Officer, MPCB, Sion, Mumbai
- CC-CAC Desk- for record & website updating purpose.



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A] As per your application, you have provided primary treatment comprising of collection tank for treatment of 6 CMD cooling tower blow down.
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

Sr.No	Parameters	Limiting concentration not to exceed in mg/l, except for pH
Compulsory parameters		
(1)	pH	6.0 to 8.5
(2)	Oil & Grease	10 mg/l
(3)	BOD (3 days 27°C)	100 mg/l
(4)	Total Suspended solids	100 mg/l
(5)	Total Dissolved solids	2100 mg/l
Additional Parameters		
(6)	Temperature	Shall not increase 5 degree Centigrade above the ambient temperature of the receiving body
(7)	Bio-Assay Test	90% survival of fish after first 96 hours in 100% effluent
(8)	Free Ammonia	5 mg/l
(9)	TAN	50 mg/l

- C] The cooling tower blow down shall be applied on land for gardening within premise. In no case, cooling tower blow down shall find its way outside factory premises.
2. A] As per your application, you have provided Septic Tank followed by Soak pit for the treatment of 1.9 CMD of sewage.
- B] **The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.**

1	BOD	Not to exceed	30 mg/l
2	SS	Not to exceed	100 mg/l

- C] The treated sewage shall be soaked in Soak Pit and overflow, if any, shall be applied on land for gardening within premise.
3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.



Maharashtra Pollution Control Board
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5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	95.00
2.	Domestic purpose	2.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	3.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.





Maharashtra Pollution Control Board
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SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO ₂ (kg/day)
S-1	DG Set (625 KVA)	Acoustic Enclosure	6	HSD	130 Ltr/Hr	1.00	55.00
S-2	DG Set (500 KVA)	Acoustic Enclosure	6	HSD	130 Ltr/Hr	1.00	55.00

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Parameters	Standards	
Total Particulate Matter	Not to exceed	150 mg/Nm ³

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
6. Vapour trap should be provided to storage tanks.



Maharashtra Pollution Control Board
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SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C2R	500000	Existing	Towards O & M of pollution control system & compliance of consent to operate	30.06.2025	31.10.2025

**Existing BG obtained for above purpose if any, may be extended for period of validity as above.

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG Imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG Imposed	Purpose of BG	Amount of BG Returned
NA				





SCHEDULE-IV
General Conditions:

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PC-I dated, 18.11.2009 as amended.
11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.



Maharashtra Pollution Control Board
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12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act.
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.



Maharashtra Pollution Control Board
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26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control systems. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781/
4037124/4035273
Fax : 24044532/4024068 /4023516
Email : cac-cell@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion-Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E),
Mumbai - 400 022

No. MPCB/UAN No. 0000026215/CAC-Cell/Amend- 2107000827

Date: 15/07/2021

To,
M/s Smartchem Technologies Limited,
Plot No.1, JNPT Tank Farm Area,
At P.O. Nhava, Tal. Uran, Dist. Raigad.

Subject:- Grant of Amendment in Consent to Operate.

- Ref.:-
1. Existing Consent to Operate No. Format 1.0/CAC/UAN No. 0000091906/CR-2006001159 dtd. 26.06.2020 valid up to 30.06.2025 granted in the name of M/s Deepak Fertilizers & Petrochemicals Corporation Limited.
 2. Application UAN No. 0000026215 dtd. 04.05.2017.
 3. Minutes of Consent Appraisal Committee meeting held on 21.05.2021 & 02.06.2021.

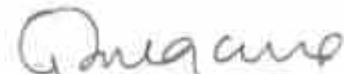
The Consent to Operate granted under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974, under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and an Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 to M/s Deepak Fertilizers & Petrochemicals Corporation Limited, Plot No.1, JNPT Tank Farm Area, At P.O. Nhava, Tal. Uran, Dist. Raigad is hereby amended as below:

1. The name of the industry shall be read as M/s Smartchem Technologies Limited in place of M/s Deepak Fertilizers & Petrochemicals Corporation Limited.

All other conditions of the consent referred at Sr. No 1 shall remain unchanged.

This amendment is valid only along with the consent referred at 1 above.

For and on behalf of the
Maharashtra Pollution Control Board


(Ashok Shingare, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	Transaction/ DR.No.	Date	Transaction Type
1	241980.00	TXN1705000748	08-05-2017	Online

Copy to:

1. Regional Officer (Navi Mumbai)/ Sub-Regional Officer (Taloja), M.P.C. Board.
2. Chief Accounts officer, M.P.C. Board, Mumbai.
3. CAC Cell, M.P.C. Board, Mumbai.

Maharashtra Pollution Control Board

Ref:MoEF/EC/JNPT/301122

Date: 30th November, 2022

To,
Scientist 'B'
Ministry of Environment, Forest & Climate Change,
Regional Office (WCZ),
Ground Floor, East Wing,
New Secretariate Building, Civil Lines
Nagpur – 440 001.

Sub: Six monthly Compliance report (for the period April 2022 to September 2022) for Environment Clearance (EC) No. J-21011/22/89/IA.III dated 29/08/1989 for storage of Phosphoric Acid at JNPT.

Dear Sir,

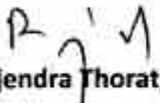
With reference to the subject matter, please find attached herewith the six monthly EC compliance report (for the period April 2022 to September 2022) for EC No. J-21011/22/89/IA.III dated 29/08/1989 for storage of Phosphoric Acid at JNPT issued to our unit located at JNPT.

Also note that the EC has been transferred from M/s Deepak Fertilisers and Petrochemicals Corporation Limited to **M/s Smartchem Technologies Limited** vide MoEF & CC letter dated 11th January, 2021.

Kindly acknowledge the same.

Yours faithfully,

For, **SMARTCHEM TECHNOLOGIES LIMITED,**


Rajendra Thorat,
Vice President – Operations.

CC : Regional Officer, MPCB, CBD-Belapur, Navi Mumbai

List of Attachments

Sr. No.	Attachments	Number of pages
1	Six Monthly EC Compliance Report	1
2	Copy of EC dated 11-01-2021 (In name of M/S Smartchem Technologies Limited)	2
3	Copy of EC dated 29.08.1989 (in name of M/S Deepak Fertilisers and Petrochemicals Corporation Limited).	2
4	Copy of MPCB Consent to Operate valid up to 30.06.2025. (In name of M/S Deepak Fertilisers and Petrochemicals Corporation Limited).	9
5	Copy of MPCB Consent to Operate – in STL Name – dated 15-07-2021	2
6	Laboratory Reports (M/S GADARK Lab.)	
	Annexure 1- Effluent Analysis (dated 04-04-2022 and 06-07-2022)	2
	Annexure 2 – Stack Emission Analysis (dated 04-04-2022 and 06-07-2022)	4
	Annexure 3 – Ambient Air Analysis (dated 04-04-2022 and 06-07-2022)	2

Compliance Status to Environment Clearance No. J-21011/22/89/IA.III dated 29/08/1989 for storage of Phosphoric Acid at JNPT (for the period April 2022 to September 2022):-

EC has been transferred from M/s Deepak Fertilisers and Petrochemicals Corporation Limited to M/s Smartchem Technologies Limited vide MoEF & CC letter dated 11th January, 2021.

Date – 30th November 2022.

GENERAL CONDITIONS:

Sr. No.	Type of Compliance	Status: Complied / Not complied / Not Applicable
1	The project authorities must take steps to prevent spillage and leakage of Phosphoric acid from the pipelines and from the storage tanks. To this end they should ensure surveillance of the acid handling systems. It should also be ensured that the length of the pipeline kept is kept at barest minimum.	The approximate length of the pipe is 4.2 Kms from jetty to tank farm.
2	Arrangements for water supply on board and in the storage facilities must be ensured for flushing out Phosphoric acid in event of leakage.	Water supply arrangement is available.
3	Appropriate protective clothings and necessary equipment should be provided for the personnel handling Phosphoric acid.	PVC Suit is used by persons handling phosphoric acid.
4	Contingency plan should be prepared to meet any emergency situation.	Onsite emergency plan is available.
5	A green belt around the periphery of the storage facilities must be raised.	Green belt is developed.
6	The effluents and emissions must conform to the standards stipulated by the State Pollution Control Board and under the Environment (Protection) Act, 1986.	Quarterly monitoring of effluent and emissions is carried out by MoEF approved laboratory and values are within standard limits. (reports are available - samples collected on 04-04-2022 and 06-07-2022)

F. No. J-21011/22/89-IA.III
Government of India
Ministry of Environment, Forest & Climate Change
Impact Assessment Division

Indira Paryavaran Bhavan,
Vayu Wing, 3rd Floor, Aliganj,
Jor Bagh Road, New Delhi-110 003

Dated: 11th January, 2021

To,

M/s Smartchem Technologies Limited (STL),
Sai Hira, Survey No. 93,
Mundhwa, Pune,
Maharashtra
Email: deepak.pande@dfpci.com

Sub: Development of storage facilities for phosphoric acid at Jawaharlal Nehru Port –Transfer of EC from M/s Deepak Fertilisers and Petrochemicals Corporation Ltd. (DFPCI) to M/s Smartchem Technologies Limited.

Sir,

This has reference to your online proposal No. IA/MH/IND2/132183/2019 dated 1st September, 2020 for transfer of environmental clearance for above mentioned project from M/s Deepak Fertilisers and Petrochemicals Corporation Ltd (DFPCI) to M/s Smartchem Technologies Limited.

2. The Project Proponent has informed that, the Name of the company is changed from M/s Deepak Fertilisers and Petrochemicals Corporation Ltd (DFPCI) to M/s Smartchem Technologies Limited vide National Company Law Tribunal (NCLT) Order No. 89 of 2017 dated 30th March, 2017.

3. The matter has been examined in the Ministry and it is noted that the Clearance granted to the project for Development of storage facilities for phosphoric acid at Jawaharlal Nehru Port to M/s Deepak Fertilisers and Petrochemicals Corporation Ltd (DFPCI) vide letter dated 29.08.1989. This clearance had neither been granted under provision of EIA Notification, 1994 nor under EIA Notification, 2006, hence there is no such provisions for transfer of instant EC under the present notification of 2006.

4. The matter has further been examined in the Ministry and the undersigned is hereby directed to say that the Ministry has taken note of the Name change of the Company from M/s Deepak Fertilisers and Petrochemicals Corporation Ltd (DFPCI) to M/s Smartchem Technologies Limited.

5. The conditions mentioned in clearance dated 29.08.1989 shall be complied by the M/s Smartchem Technologies Limited along with other provisions prescribed under various provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air

(Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein, as applicable to the instant project.

6. This issues with the approval of the competent authority.

11/01/2021
(Dr. R. B. Lal)

Scientist 'E'/Additional Director

Email: rb.lal@nic.in

Tele-fax: +91-11-24695362

(डा. आर. बी. लाल)

(Dr. R. B. LAL)

वैज्ञानिक 'ई'/Scientist 'E'

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

Min. of Environment, Forest and Climate Change

भारत सरकार, नई दिल्ली

Govt. of India, New Delhi

Copy to: -

1. M/s Deepak Fertilizers and Petrochemicals Corporation Ltd (DFPCI), Sai Hira, Survey No. 93 , Mundhwa , Pune, Maharashtra- 411 036
2. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building Civil Lines, Nagpur-440001
3. Office of the Principal Chief Conservator of Forests (Head of Forests Force) M.S. Nagpur 3rd Floor Van Bhavan Ramgiri Road Civil Lines Nagpur 440 001
4. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 32
5. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. PVR Cinema, Sion Circle, Mumbai-400 022.
6. Guard File/Monitoring File/Website/Record File/Parivesh Portal

(Dr. R. B. Lal)

Scientist 'E'/Additional Director

Dated the August 29, 1989

OFFICE MEMORANDUM

Subject: Development of storage facilities for phosphoric acid at Jawaharlal Nehru Port by Deepak Fertilisers and Petrochemicals Corporation Ltd.

.....

This has reference to letter No. DPPCL/T-1/27-1/89 dated 1st August, 1989 received from Deepak Fertilisers and Petrochemicals Corporation Ltd., regarding the above mentioned subject.

2. The proposal has been examined and environmental clearance is hereby accorded subject to the following safeguards:-

- (i) The project authorities must take steps to prevent spillage and leakage of phosphoric acid from the pipelines and from the storage tanks. To this end, they should ensure surveillance of the acid handling systems. It should also be ensured that the length of the pipelines is kept at barest minimum.
- (ii) Arrangements for water supply on board and in the storage facilities must be ensured for flushing out phosphoric acid in event of any leakage.
- (iii) Appropriate protective clothings and necessary equipment should be provided for the personnel handling phosphoric acid.
- (iv) Contingency plan should be prepared to meet any emergency situation.
- (v) A green belt around the periphery of the storage facilities must be raised.
- (vi) The effluents and emissions must conform to the standards stipulated by the State Pollution Control Board and under the Environment (Protection) Act, 1986.

3. Adequate financial provision should be made for implementation of these stipulations.

4. These stipulations may be varied or new ones imposed or the clearance may be revoked in the interest of environmental protection.



5. These stipulations will be enforced, among others, under the Water (Prevention & Control of Pollution) Act, the Air (Prevention & Control of Pollution) Act, the Factories Act and the Environment (Protection) Act in force.


sl/-
(Dilip K. Biswas)
Adviser

To

Secretary,
Ministry of Surface Transport,
Parivahan Bhavan,
Sansad Marg,
New Delhi - 110 001.

Copy to :-

- ✓ 1. Shri G.G. Gogate, Sr. Vice-President, Administration and Commercial, Deepak Fertilisers & Petrochemicals Corporation Ltd., Shiva Shakti, B.G. Kher Marg, Worli, Bombay - 400 018.
2. Secretary, Department of Environment, Govt. of Maharashtra, Mantrelaya, Bombay.
3. Chairman, State Pollution Control Board, Army & Navy Building, 148, Mahatma Gandhi Road, Fort, Bombay-400 001.
4. Chief Conservator of Forests, Regional Office of the Ministry of Environment & Forests, Bhopal.
5. Director, Regional Office Cell, Paryavaran Bhavan, Ministry of Environment & Forests, New Delhi.
6. Chairman, Central Pollution Control Board, 5th & 6th Floor, Skylark Building, 60, Nehru Place, New Delhi - 110 019.
7. For record folder.


(Dilip K. Biswas)
Adviser



Maharashtra Pollution Control Board
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MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/L-5.1 ()

No:- Format 1.0/CAC/UAN No.0000091906/CR - 2006001159

Date: 26/06/2020

To,
M/s Deepak Fertilisers and Petrochemicals Corporation Ltd.,
Plot No.1, JNPT Tank Farm Area, A/p Nhava, JNPT Tank Farm,
Tal. Uran, Dist. Raigad.

Sub: Grant of renewal of Consent to Operate for storage and handling of Phosphoric acid and Liquid Ammonia (atmospheric pressure).

Ref: 1. Previous Consent to Operate accorded by the Board vide No. Format 1.0/BO/CACCell/ EIC No. NM-5001-14/2nd CAC-3770 dtd. 17/03/2016.
2. Minutes of Consent Appraisal Committee meeting held on 04/05/2020.

Your application No.MPCB-CONSENT-0000091906 Dated 19.04.2020

For: grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the Consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent to renewal is granted for a period up to 30/06/2025
- The capital investment of the project is Rs.119.2659 Crs. (As per C.A Certificate submitted by industry Existing-Rs. 119.98 Crs + Expansion/Increase in C.I. - Rs. (-) 0.72 Crs)
- Consent is valid for the manufacture of:

Sr No	Product	Maximum Quantity	UOM
Products			
1	Storage & handling of Liquid Ammonia (Atmospheric Pressure)	15000	MT
2	Storage & handling of Phosphoric Acid	7000	KLtr.
3	Storage & handling of Phosphoric Acid	7000	KLtr.

Note: All Storage tanks are for captive consumption only.

- Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	6	As per Schedule-I	On land for gardening
2.	Domestic effluent	1.9	As per Schedule-I	Soaked in soak pit



Maharashtra Pollution Control Board
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5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S-1 & S-2	DG Sets (500 & 625 KVA)	2	As per Schedule-II

6. Non-Hazardous Wastes:

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	NA	0	-NA-	NA	NA

7. Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	1	MT/A	Recycle	Sale to Auth. Party/ Recycler through Sister concern unit at Plot No. K-8, MIDC Talaja
2	5.2 Used Oil Filters	35	Nos./Y	Incineration/ Secured Landfill	CHWTSDf through Sister concern unit at Plot No. K-8, MIDC Talaja

8. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
10. Industry shall comply with the provisions of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989.
11. Industry shall extend existing Bank Guarantee towards compliance of Consent conditions.

For and on behalf of the
Maharashtra Pollution Control Board.

(E. Ravendran IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	1027523.00	MPCB-DR-0198	02/05/2020	RTGS

Balance amount of Rs. 1,65,136/- of previous Consent to Operate accorded by the Board vide No. Format 1.0/BO/CACCell/ EIC No. NM-5001-14/2nd CAC-3770 dtd. 17/03/2016 is taken into account for renewal of Consent.

Copy to:

1. Regional Officer, MPCB, Navi Mumbai and Sub-Regional Officer, MPCB, Talaja
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CC-CAC Desk- for record & website updating purpose.



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A] As per your application, you have provided primary treatment comprising of collection tank for treatment of 6 CMD cooling tower blow down.
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

Sr.No	Parameters	Limiting concentration not to exceed in mg/l, except for pH
Compulsory parameters		
(1)	pH	6.0 to 8.5
(2)	Oil & Grease	10 mg/l
(3)	BOD (3 days 27°C)	100 mg/l
(4)	Total Suspended solids	100 mg/l
(5)	Total Dissolved solids	2100 mg/l
Additional Parameters		
(6)	Temperature	Shall not increase 5 degree Centigrade above the ambient temperature of the receiving body
(7)	Bio-Assay Test	90% survival of fish after first 96 hours in 100% effluent
(8)	Free Ammonia	5 mg/l
(9)	TAN	50 mg/l

- C] The cooling tower blow down shall be applied on land for gardening within premise. In no case, cooling tower blow down shall find its way outside factory premises.
2. A] As per your application, you have provided Septic Tank followed by Soak pit for the treatment of 1.9 CMD of sewage.
- B] **The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.**

1	BOD	Not to exceed	30 mg/l
2	SS	Not to exceed	100 mg/l

- C] The treated sewage shall be soaked in Soak Pit and overflow, if any, shall be applied on land for gardening within premise.
3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.



Maharashtra Pollution Control Board
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5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	95.00
2.	Domestic purpose	2.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	3.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.





Maharashtra Pollution Control Board
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SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO ₂ (kg/day)
S-1	DG Set (625 KVA)	Acoustic Enclosure	6	HSD	130 Ltr/Hr	1.00	55.00
S-2	DG Set (500 KVA)	Acoustic Enclosure	6	HSD	130 Ltr/Hr	1.00	55.00

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Parameters	Standards	
Total Particulate Matter	Not to exceed	150 mg/Nm ³

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
6. Vapour trap should be provided to storage tanks.



Maharashtra Pollution Control Board
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SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C2R	500000	Existing	Towards O & M of pollution control system & compliance of consent to operate	30.06.2025	31.10.2025

**Existing BG obtained for above purpose if any, may be extended for period of validity as above.

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG Imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG Imposed	Purpose of BG	Amount of BG Returned
NA				





SCHEDULE-IV
General Conditions:

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PC-I dated, 18.11.2009 as amended.
11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.



Maharashtra Pollution Control Board
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12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act.
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.



Maharashtra Pollution Control Board
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26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control systems. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781/
4037124/4035273
Fax : 24044532/4024068 /4023516
Email : cac-cell@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion-Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E),
Mumbai - 400 022

No. MPCB/UAN No. 0000026215/CAC-Cell/Amend- 2107000827

Date: 15/07/2021

To,
M/s Smartchem Technologies Limited,
Plot No.1, JNPT Tank Farm Area,
At P.O. Nhava, Tal. Uran, Dist. Raigad.

Subject:- Grant of Amendment in Consent to Operate.

- Ref.:-
1. Existing Consent to Operate No. Format 1.0/CAC/UAN No. 0000091906/CR-2006001159 dtd. 26.06.2020 valid up to 30.06.2025 granted in the name of M/s Deepak Fertilizers & Petrochemicals Corporation Limited.
 2. Application UAN No. 0000026215 dtd. 04.05.2017.
 3. Minutes of Consent Appraisal Committee meeting held on 21.05.2021 & 02.06.2021.

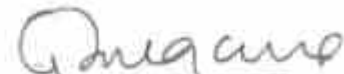
The Consent to Operate granted under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974, under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and an Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 to M/s Deepak Fertilizers & Petrochemicals Corporation Limited, Plot No.1, JNPT Tank Farm Area, At P.O. Nhava, Tal. Uran, Dist. Raigad is hereby amended as below:

1. The name of the industry shall be read as M/s Smartchem Technologies Limited in place of M/s Deepak Fertilizers & Petrochemicals Corporation Limited.

All other conditions of the consent referred at Sr. No 1 shall remain unchanged.

This amendment is valid only along with the consent referred at 1 above.

For and on behalf of the
Maharashtra Pollution Control Board


(Ashok Shingare, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	Transaction/ DR.No.	Date	Transaction Type
1	241980.00	TXN1705000748	08-05-2017	Online

Copy to:

1. Regional Officer (Navi Mumbai)/ Sub-Regional Officer (Taloja), M.P.C. Board.
2. Chief Accounts officer, M.P.C. Board, Mumbai.
3. CAC Cell, M.P.C. Board, Mumbai.

Maharashtra Pollution Control Board



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.
Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.
Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/22/0829	Test Report Date	09/04/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO 1, JNPT, NHAVA SHEVA, TAL-URAN, DIST. - RAIGAD.		
Letter Ref/Date	---		
Lab Reference No.	GW/O/22/0829	Page No.	1 of 1
Sampling Done By	GLPL On 04/04/2022	Sample Received on	05/04/2022
Sample Submitted by	GLPL	Analysis Period	05/04/2022 To 09/04/2022
Sample Description	Cooling Tower Blow Down Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	--	6.51	6.0 To 8.5	APHA 4500 H*
Temperature	°C	27	---	APHA 2550 B
COD	mg/ltr	58	250 Max.	APHA 5220 B
BOD 3 days 27°C	mg/ltr	15	100 Max.	IS 3025 (Part 44) : 1993
Total Suspended Solids at 105°C	mg/ltr	10	100 Max.	APHA 2540 D
Total Dissolved Solids at 180°C	mg/ltr	480	2100 Max.	APHA 2540 C
Oil & Grease	mg/ltr	< 0.1	10 Max.	APHA 5520 B
Phosphate	mg/ltr	0.33	5 Max	APHA 4500 P - D
Total Ammonical Nitrogen	mg/ltr	11	50 Max	APHA 4500 NH ₃ A
Total Kjeldhal Nitrogen	mg/ltr	16.8	100 Max	APHA 4500 N ^{org} B
Free Ammonia	mg/ltr	0.012	4 Max	APHA 4500 NH ₃ C

MODIFIED BIO-ASSAY TEST ON FISH :-

The Undiluted Treated Effluent was examined for Modified Bio-assay test on fish, which showed 96% survival in 96 hours. (Test Method : IS 6582/2003)

End

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]


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Note:

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EHS

TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/22/1829	Test Report Date	12/07/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO 1, JNPT, NHAVA SHEVA, TAL-URAN, DIST. - RAIGAD.		
Letter Ref/Date	---		
Lab Reference No.	GW/O/22/1829	Page No.	1 of 1
Sampling Done By	GLPL On 06/07/2022	Sample Received on	07/07/2022
Sample Submitted by	GLPL	Analysis Period	07/07/2022 To 12/07/2022
Sample Description	Cooling Tower Blow Down Water Sample, 5 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	6.66	6.0 To 8.5	APHA 4500 H ⁺
Temperature	°C	27	---	APHA 2550 B
COD	mg/ltr	66	250 Max.	APHA 5220 B
BOD 3 days 27°C	mg/ltr	18	100 Max.	IS 3025 (Part 44) : 1993
Total Suspended Solids at 105°C	mg/ltr	16	100 Max.	APHA 2540 D
Total Dissolved Solids at 180°C	mg/ltr	526	2100 Max.	APHA 2540 C
Oil & Grease	mg/ltr	< 0.1	10 Max.	APHA 5520 B
Phosphate	mg/ltr	0.48	5 Max	APHA 4500 P - D
Total Ammonical Nitrogen	mg/ltr	9.52	50 Max	APHA 4500 NH ₃ A
Total Kjeldhal Nitrogen	mg/ltr	14.56	100 Max	APHA 4500 N ^{org} B
Free Ammonia	mg/ltr	0.022	4 Max	APHA 4500 NH ₃ C

MODIFIED BIO-ASSAY TEST ON FISH :-

The Undiluted Treated Effluent was examined for Modified Bio-assay test on fish, which showed 94% survival in 96 hours. (Test Method : IS 6582/2003)

End

For GADARK LAB PVT. LTD.

Handwritten signature of Santosh V. Zulpe

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/04/25	Test Report Date	09/04/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO. 1, JNPT, NHAVA SHEVA, TAL. URAN, DIST. - RAIGAD		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	05/04/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	06/04/2022 To 08/04/2022

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET (500 KVA)
Stack Dimension [mm]	200
Date of Sample collection	04/04/2022
Time of Sampling [Hrs]	13:30
Temperature of flue gas [°C]	145
Average flue gas velocity [m/s]	7.4
Average volume of flue gas discharged [Nm ³ /hr]	595

ANALYSIS REPORT :

Parameters	Units	Results	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	35.9	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	96.6	IS 11255 (Part II) 1985
	Kg/day	1.38	
NO _x	mg/Nm ³	28.6	IS 11255 (Part VII) 2005
CO	mg/Nm ³	23.5	APHA Edition II-134
Non Methane Hydrocarbon	mg/Nm ³	15.1	IS 5182 Part 21 / 2001

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/04/24	Test Report Date	09/04/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO. 1, JNPT, NHAVA SHEVA, TAL. URAN, DIST. - RAIGAD		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	05/04/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	06/04/2022 To 08/04/2022

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET (625 KVA)
Stack Dimension [mm]	125
Date of Sample collection	04/04/2022
Time of Sampling [Hrs]	12:45
Temperature of flue gas [°C]	140
Average flue gas velocity [m/s]	7.6
Average volume of flue gas discharged [Nm ³ /hr]	243

ANALYSIS REPORT :

Parameters	Units	Results	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	41.1	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	109.4	IS 11255 (Part II) 1985
	Kg/day	0.64	
NOx	mg/Nm ³	29.6	IS 11255 (Part VII) 2005
CO	mg/Nm ³	25.3	APHA Edition II-134
Non Methane Hydrocarbon	mg/Nm ³	13.7	IS 5182 Part 21 / 2001

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/07/90	Test Report Date	12/07/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO. 1, JNPT, NHAVA SHEVA, TAL. URAN, DIST. - RAIGAD		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	07/07/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	08/07/2022 To 11/07/2022

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET (500 KVA)
Stack Dimension [mm]	200
Date of Sample collection	06/07/2022
Time of Sampling [Hrs]	12:30
Temperature of flue gas [°C]	140
Average flue gas velocity [m/s]	6.9
Average volume of flue gas discharged [Nm ³ /hr]	563

ANALYSIS REPORT :

Parameters	Units	Results	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	40.1	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	105.1	IS 11255 (Part II) 1985
	Kg/day	1.42	
NOx	mg/Nm ³	30.7	IS 11255 (Part VII) 2005
CO	mg/Nm ³	20.8	APHA Edition II-134
Non Methane Hydrocarbon	mg/Nm ³	16.1	IS 5182 Part 21 / 2001

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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Signature
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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/07/89	Test Report Date	12/07/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO. 1, JNPT, NHAVA SHEVA, TAL. URAN, DIST. - RAIGAD		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	07/07/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	08/07/2022 To 11/07/2022

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET (625 KVA)
Stack Dimension [mm]	125
Date of Sample collection	06/07/2022
Time of Sampling [Hrs]	11:45
Temperature of flue gas [°C]	135
Average flue gas velocity [m/s]	7.3
Average volume of flue gas discharged [Nm ³ /hr]	234

ANALYSIS REPORT :

Parameters	Units	Results	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	38.3	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	110.2	IS 11255 (Part II) 1985
	Kg/day	0.62	
NO _x	mg/Nm ³	30.2	IS 11255 (Part VII) 2005
CO	mg/Nm ³	23.1	APHA Edition II-134
Non Methane Hydrocarbon	mg/Nm ³	14.9	IS 5182 Part 21 / 2001

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/04/26	Test Report Date	09/04/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO. 1, JNPT, NHAVA SHEVA, TAL., URAN, DIST. - RAIGAD		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	05/04/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	06/04/2022 To 09/04/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Phosphoric Acid MCC Room			
Date of Sampling	04/04/2022			
Time of Sampling [Hrs]	12:30			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	26	Max.	34
Relative Humidity [%]	Min.	40	Max.	65

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.55	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	29.27	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	33.42	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.15	80.0	IS 5182 (Part VI) 2005
CO	mg/m ³	1.15	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.10	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	4.76	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	1.60	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	4.39	20.0	IS 5182 (Part XXII) 2004

*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/07/91	Test Report Date	12/07/2022
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO. 1, JNPT, NHAVA SHEVA, TAL., URAN, DIST. - RAIGAD		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	07/07/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	08/07/2022 To 12/07/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Phosphoric Acid MCC Room			
Date of Sampling	06/07/2022			
Time of Sampling [Hrs]	11:30			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	24	Max.	28
Relative Humidity [%]	Min.	45	Max.	62

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	62.48	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	31.55	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.42	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	33.98	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.04	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.10	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	5.31	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	2.08	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	4.98	20.0	IS 5182 (Part XXII) 2004

*N.A.A.Q.S. - National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

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