

Ref:MoEF/EC/JNPT/281120

Date: 28th November, 2020

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 2020 to September 2020) 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 EC No. 10-26/2007-IA-III dated 27/08/2007 issued to our unit located at JNPT for storage & handling of imported Ammonia.

Also note that the Name of the company is changed from M/s Deepak Fertilisers and Petrochemicals Corporation Limited to **M/s Smartchem Technologies Limited** vide National Company Law Tribunal (NCLT) Order No. 89 of 2017 dated 30th March, 2017.

We have communicated the same to your good offices on 27/04/2017 through Registered Post (Copy of the receipt is attached herewith).

Kindly acknowledge the same.

Yours faithfully,

For, SMARTCHEM TECHNOLOGIES LIMITED,



Dinesh Pratap Singh,
Executive Vice President.

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	Letter to MoEF dated 26.04.2017 (Change in name of company)	2
3	Copy of EC dated 27.08.2007.	4
4	Laboratory Reports (M/S GADARK Lab.)	
	Annexure-1- Ambient Air Analysis (dated 15.07.20)	1
	Annexure-2 – Soil and Groundwater analysis reports (dated 22.10.19)	3
	Annexure 3 – MPCB Consent to operate dated 26.06.2020 valid up to 30.06.2025.	9

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 2020 to September 2020) :-

Date:- 28/11/2020

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.
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)
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.

Sr. No.	Type of Compliance	Status: Complied / Not complied / Not Applicable
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 activities.	Noted.
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	Seperate clearance shall be obtained by individual project proponents for handling and storage of these chemicals.	Noted.

O/c



SMARTCHEM
TECHNOLOGIES
LIMITED

Ref:MoEF/EC/JNPT/260417

Date: 26th April, 2017

To,
Director,
(IA-III Division),
Ministry of Environment, Forests and Climate Change,
Government of India,
Paryavaran Bhavan,
CGO Complex, Lodhi Road,
New Delhi – 110003.

Sub: Information regarding the change in name of Company from M/s Deepak Fertilisers and Petrochemicals Corporation Limited (DFPCL) to M/s Smartchem Technologies Limited (STL) of our factory at Plot No. 1, JNPT Tank Farm Area, JNPT, At Nhava Sheva, Tal. Uran, Dist. Raigad. Please refer the following Environment Clearances,

1. Environment Clearance No. J-21011/22/89-IA-III dated 29/08/1989 for Storage & Handling of Phosphoric Acid.
2. Environment Clearance No. 10-26/2007-IA-III dated 27/08/2007 issued to our unit located at JNPT for storage & handling of imported Ammonia.

Dear Sir,

With reference to subject matter, Name of the company is changed from M/s Deepak Fertilisers and Petrochemicals Corporation Limited to M/s **Smartchem Technologies Limited** vide National Company Law Tribunal (NCLT) Order No. 89 of 2017 dated 30th March, 2017.

Following documents required in this regard are attached herewith.

1. Copy of National Company Law Tribunal (NCLT) Order No. 89 of 2017 dated 30th March, 2017 for change in Name of the Company.
2. Copy of Memorandum and Articles of Association of M/s Smartchem Technologies Limited.

Also find attached herewith the Copies of Environment Clearances as mentioned below,

1. Environment Clearance No. J-21011/22/89-IA-III dated 29/08/1989 for Storage & Handling of Phosphoric Acid.
2. Environment Clearance No. 10-26/2007-IA-III dated 27/08/2007 issued to our unit located at JNPT for storage & handling of imported Ammonia.

We request your good offices to note a change in the Name of the Company and issue us the amended Environmental Clearances in the name of M/s Smartcher

Thanking you,

Yours faithfully,

For, SMARTCHEM TECHNOLOGIES LIMITED,

V. K. JOSHI

Head – TAN (Manufacturing)

Copy to :

1. Regional Officer, MPCB, CBD-Belapur, Navi Mumbai
2. Ministry of Environment, Forest & Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariate Building, Civil Lines, Nagpur – 440 001.

Sai Hira, Survey No. 93, Mundhwa, Pune- 411 036.

Tel. : +91 20 6645 8000

Fax : +91 20 2668 0630

Web : www.smartchem.co.in

100% subsidiary of Deepak Fertilisers And Petrochemicals Corporation Limited

PLAD TALDJA AV <410208>

A RM626162523TN

Counter No:1.OP-Codes:RSN

To:MINISTRY OF ENVIRONM.

NAGPUR. PIN:440001

From:DEEPAK FERTILIZER . TALDJA

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Am:125.00 27/04/2017 13:03

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Sender's address

Deepak Fertiliser & Petrochemical
Corporation Ltd.

Plot No. 28, MIDC, Talaja,
Dist : Raigad

पिन/PIN 410208

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पोहोच पावती/प्राप्ति स्वीकृति/ACKNOWLEDGEMENT

रजिस्ट्री पत्र/पार्सल प्राप्त हुआ/नोंदणीकृत पत्र/पार्सल मिळाले
Received Registered Letter/Parcel

क्रमांक/No. of Envelope/पत्र/पार्सल/Date/दिनांक/च

* विमा मूल्य रुपये * बीमे का मूल्य रुपया में * Insured for Rupees

चेणा-याचे नाव/Name of the Consignee/प्राप्त करणारा/Name of the Recipient

पाने वाले/Addressed to/प्राप्त करणारा/Address of the Recipient

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No.10-26/2007-IA-III
Government of India
Ministry of Environment and Forests
(IA-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"/18" 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, 1994/2006 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-400032.

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 Paryavaran 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



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 CERTIFICATE

Doc.No : GLPL/QF/7.8/03

Test Certificate No.	GA/20/07/103	T. C. Date	22/07/2020
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	17/07/2020
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/07/2020 To 22/07/2020

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Control Room			
Date of Sampling	15/07/2020			
Time of Sampling [Hrs]	15:30			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	30	Max.	33
Relative Humidity [%]	Min.	52	Max.	68


ANALYSIS REPORT :-

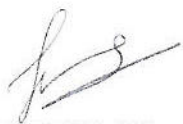
Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	57.4	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	26.9	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	30.6	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	32.4	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	1.19	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.04	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	3.0	100.0 for 8 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	1.1	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part 11) 2006
Benzo Pyrene **	ng/m ³	< 0.1	1.0	IS 5182 (Part 12):2004
Arsenic **	ng/m ³	< 0.4	6.0	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	2.2	20.0	NAAQMS/36/2012-2013 Volume 1

*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 certificate 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 Certificate.
4. Test Results relate only to the conditions prevailing at the time of sampling
5. Customer complaint register is available at laboratory.
6. ** - Non Accredited Scope under ISO / IEC 17025 : 2005.



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 CERTIFICATE

Doc.No : GLPL/QF/7.8/01

Test Certificate No.	GS/20/0901	T.C. Date:	01/10/2020
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/20/0901	Page No.	1 of 1
Sampling Done By	GLPL On 25/09/2020	Sample Received on	26/09/2020
Sample Collected by	GLPL	Analysis Period	26/09/2020 To 01/10/2020
Sample Description	Soil Sample Near Ammonia Storage Tank, 1 Kg in plastic bag		

ANALYSIS REPORTS:

Parameters	Units	Test Results
pH (1:5 Suspension)	---	7.06
Available Nitrogen	Kg/Hect	307.32
Available Phosphorus	Kg/Hect	8.2
Available Potassium	Kg/Hect	54
Moisture	%	5.4
Density	gm/ml	1.09
Chlorides	%	0.032
Sulphates	%	0.018
Phosphates	%	0.00058
Organic Matter	%	1.21
Water Holding Capacity	%	50.2
Sodium Absorption Ration (SAR)	---	9.4
Toxicity Characteristics Leaching Procedure (TCLP)		
Mercury	ppm	< 0.001
Lead	ppm	0.056
Arsenic	ppm	< 0.001
Cadmium	ppm	0.045
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
[SACHIN B. GAONKAR]

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 certificate 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 Certificate.
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.

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 CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/S/20/0901	T.C. Date:	01/10/2020
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/S/20/0901	Page No.	1 of 2
Sampling Done By	GLPL On 25/09/2020	Sample Received on	26/09/2020
Sample Collected by	GLPL	Analysis Period	26/09/2020 To 01/10/2020
Sample Description	Ground Water Near Ammonia Storage Tank, 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	---	6.71	6.5 - 8.5	No Relaxation	APHA 4500 H ⁺
Turbidity	NTU	0.8	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	354	500.0 Max.	2000.0 Max.	APHA 2540 C
Calcium	mg/ltr	40.08	75.0 Max.	200.0 Max.	APHA 3500 Ca B
Chlorides	mg/ltr	48.4	250.0 Max.	1000.0 Max.	APHA 4500 Cl ⁻ B
Sulphate	mg/ltr	11.5	200.0 Max.	400.0 Max.	APHA 4500 SO ₄ ²⁻ E
Nitrate	mg/ltr	0.72	45.0 Max.	No Relaxation	APHA 4500 NO ₃ B
Fluoride	mg/ltr	0.064	1.0 Max.	1.5 Max.	APHA 4500 F ⁻
Phenolic Compounds	mg/ltr	< 0.001	0.001 Max.	0.002 Max.	IS 3025 PART 43
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 6440
Mineral Oil	mg/ltr	< 0.1	0.5 Max.	No Relaxation	APHA 5520 B
Total Alkalinity	mg/ltr	64.4	200.0 Max.	600.0 Max.	APHA 2320 B
Aluminum	mg/ltr	< 0.001	0.03 Max.	0.2 Max.	APHA 3111 B
Boron	mg/ltr	< 0.001	0.5 Max.	1.0 Max.	APHA 4500 B - B
Cadmium	mg/ltr	< 0.001	0.003 Max.	No Relaxation	APHA 3111 B
Copper	mg/ltr	0.001	0.05 Max.	1.5 Max.	APHA 3111 B
Iron	mg/ltr	0.096	1.0 Max.	No Relaxation	APHA 3111 B
Lead	mg/ltr	< 0.001	0.01 Max.	No Relaxation	APHA 3111 B
Manganese	mg/ltr	0.034	0.10 Max.	0.30 Max.	APHA 3111 B

Contd...2/..



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TEST CERTIFICATE

GADARK LAB PVT. LTD.

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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 3114 C
Total Chromium	mg/ltr	< 0.001	0.05 Max.	No Relaxation	APHA 3111 B
Zinc	mg/ltr	0.054	5.0 Max.	15.0 Max.	APHA 3111 B

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

CHECKED BY

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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



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

RED/L.S.I ()

No:- Format1.0/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 Taloja
2	5.2 Used Oil Filters	35	Nos./Y	Incineration/ Secured Landfill	CHWTSDf through Sister concern unit at Plot No. K-8, MIDC Taloja

- 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, Taloja
- 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.



Maharashtra Pollution Control Board

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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.



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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.



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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/PCI-L 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 system. 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.