



**SMARTCHEM
TECHNOLOGIES
LIMITED**

Ref:MoEF/EC/JNPT/270521

Date: 27th May, 2021

**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 October 2020 to March 2021) 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 October 2020 to March 2021) 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,

**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	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 Consent to Operate valid up to 30.06.2025.	9
5	Laboratory Reports (M/S GADARK Lab.)	
	Annexure 1- Effluent Analysis (dated 26.10.2020 and 18.01.2021)	2
	Annexure 2 - Stack Emission Analysis (dated 26.10.2020 and 18.01.2021)	4
	Annexure 3 - Ambient Air Analysis (dated 26.10.2020 and 18.01.2021)	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 October 2020 to March 2021):-

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 – 20th May 2021.

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 26.10.2020 and 18.01.2021)

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.

11/10/2021
(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

11/10/2021
(Dr. R. B. Lal)

Scientist 'E'/Additional Director

2/8/89
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.

.....

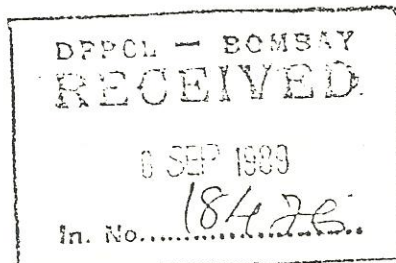
This has reference to letter No. DPPCL/TLI/21-A/89 dated 1st August, 1989 received from Deepak Fertilisers and Petrochemicals Corporation Ltd., regarding the above mentioned subject.

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.


sd/-
(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, Mantralaya, 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



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.



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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.





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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.



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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.



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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.



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/21/0103	T.C. Date:	27/01/2021
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/21/0103	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL On 18/01/2021	Sample Received on	19/01/2021
Sample Submitted by	GLPL	Analysis Period	19/01/2021 To 27/01/2021
Sample Description	Effluent Sample from Cooling Tower Outlet, 5 lit in plastic bottle		

ANALYSIS REPORTS:

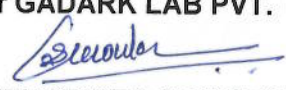
Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	6.85	6.0 To 8.5	APHA 4500 H ⁺
Temperature	°C	27	-----	APHA 2550 B
COD 5 days at 20°C	mg/ltr	32	250 Max.	APHA 5220 B IS 3025 (Part 44) : 1993
Total Suspended Solids at 105°C	mg/ltr	25	100 Max.	APHA 2540 D
Total Dissolved Solids at 180°C	mg/ltr	924	2100 Max.	APHA 2540 C
Oil & Grease	mg/ltr	< 0.1	10 Max.	APHA 5520 B
Phosphate	mg/ltr	0.26	5 Max	APHA 4500 P - D
Total Ammonical Nitrogen	mg/ltr	4.4	50 Max	APHA 4500 NH ₃ A
Total Kjeldhal Nitrogen	mg/ltr	9.6	100 Max	APHA 4500 N ^{org} B
Free Ammonia	mg/ltr	0.007	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 98% survival in 96 hours. (Test Method : IS 6582/2003)

End

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]


EHS


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Note:

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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/O/20/2141	T.C. Date:	31/10/2020
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/O/20/2141	Page No.	1 of 1
Sampling Done By	GLPL On 26/10/2020	Sample Received on	27/10/2020
Sample Submitted by	GLPL	Analysis Period	27/10/2020 To 31/10/2020
Sample Description	Effluent Sample From Cooling Tower Outlet, 1 lit in plastic bottle		

ANALYSIS REPORTS:

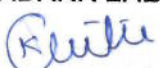
Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	6.05	6.0 To 8.5	APHA 4500 H ⁺
Temperature	°C	28	-----	APHA 2550 B
COD	mg/ltr	107	250 Max.	APHA 5220 B
BOD 3 days 27°C	mg/ltr	49	100 Max.	APHA 2540 D
Total Suspended Solids at 105°C	mg/ltr	1394	2100 Max.	APHA 2540 C
Total Dissolved Solids at 180°C	mg/ltr	2	10 Max.	APHA 5520 B
Oil & Grease	mg/ltr	0.74	5 Max	APHA 4500 P - D
Phosphate	mg/ltr	10.6	50 Max	APHA 4500 NH ₃ A
Total Ammonical Nitrogen	mg/ltr	15.4	100 Max	APHA 4500 N ^{org} B
Total Kjeldhal Nitrogen	mg/ltr	0.01	4 Max	APHA 4500 NH ₃ C
Free Ammonia	mg/ltr			

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
[KAILAS V. CHITALKAR]


(EHS)


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TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

Test Certificate No.	GA/21/01/173	T. C. Date	23/01/2021
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	19/01/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	20/01/2021 To 22/01/2021

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET (625 KVA)
Stack Dimension [mm]	125
Date of Sample collection	18/01/2021
Time of Sampling [Hrs]	11:30
Temperature of flue gas [°C]	138
Average flue gas velocity [m/s]	9.3
Average volume of flue gas discharged [Nm ³ /hr]	207

ANALYSIS REPORT :

Parameters	Units	Results	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	38.1	Laboratory Analytical Techniques / 80 / 2013-14/CPCB
Sulphur Dioxide	mg/Nm ³	106.0	
	Kg/day	0.76	
NOx	mg/Nm ³	28.0	APHA Edition II-134 IS 5182 Part 21 / 2001
CO	mg/Nm ³	27.8	
Non Methane Hydrocarbon	mg/Nm ³	14.2	

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

Test Certificate No.	GA/21/01/174	T. C. Date	23/01/2021
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	19/01/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	20/01/2021 To 22/01/2021

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET (500 KVA)
Stack Dimension [mm]	200
Date of Sample collection	18/01/2021
Time of Sampling [Hrs]	12:10
Temperature of flue gas [°C]	130
Average flue gas velocity [m/s] Average volume of flue gas discharged [Nm ³ /hr]	8.3 694

ANALYSIS REPORT :

Parameters	Units	Results	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	34.3	Laboratory Analytical Techniques / 80 / 2013-14/CPCB
Sulphur Dioxide	mg/Nm ³	96.3	
	Kg/day	1.61	
NOx	mg/Nm ³	30.0	APHA Edition II-134 IS 5182 Part 21 / 2001
CO	mg/Nm ³	23.5	
Non Methane Hydrocarbon	mg/Nm ³	11.9	

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

Test Certificate No.	GA/20/10/247	T. C. Date	31/10/2020
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	27/10/2020
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	28/10/2020 To 29/10/2020

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET (625 KVA)
Stack Dimension [mm]	125
Date of Sample collection	26/10/2020
Time of Sampling [Hrs]	14:15
Temperature of flue gas [°C]	134
Average flue gas velocity [m/s]	9.9

ANALYSIS REPORT :

Parameters	Units	Results	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	35.3	Laboratory Analytical Techniques / 80 / 2013-14/CPCB
Sulphur Dioxide	mg/Nm ³	99.1	
	Kg/day	0.76	
NOx	mg/Nm ³	26.1	APHA Edition II-134
CO	mg/Nm ³	30.1	
Non Methane Hydrocarbon	mg/Nm ³	12.1	IS 5182 Part 21 / 2001

End

For GADARK LAB PVT. LTD.

Kailas

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

Sumit
EHS

K. Bagyar
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TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

Test Certificate No.	GA/20/10/248	T. C. Date	31/10/2020
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	27/10/2020
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	28/10/2020 To 29/10/2020

SAMPLING DETAILS - STACK EMISSION


Stack Attached to	D. G. SET (500 KVA)
Stack Dimension [mm]	200
Date of Sample collection	26/10/2020
Time of Sampling [Hrs]	14:50
Temperature of flue gas [°C]	128
Average flue gas velocity [m/s]	8.0
Average volume of flue gas discharged [m ³ /min]	673

ANALYSIS REPORT :

Parameters	Units	Results	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	39.8	Laboratory Analytical Techniques / 80 / 2013-14/CPCB
Sulphur Dioxide	mg/Nm ³	110.9	
	Kg/day	1.79	
NOx	mg/Nm ³	28.8	APHA Edition II-134 IS 5182 Part 21 / 2001
CO	mg/Nm ³	25.5	
Non Methane Hydrocarbon	mg/Nm ³	14.1	

End

For GADARK LAB PVT. LTD.


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[KAILAS V. CHITALKAR]


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TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

Test Certificate No.	GA/21/01/175	T. C. Date	23/01/2021
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	19/01/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	20/01/2021 To 23/01/2021

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Control Room			
Date of Sampling	18/01/2021			
Time of Sampling [Hrs]	11:00			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	26	Max.	33
Relative Humidity [%]	Min.	43	Max.	52

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	57.9	100.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	32.4	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	36.2	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	1.21	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.12	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	2.5	100.0 for 8 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	3.6	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	4.6	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
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TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

Test Certificate No.	GA/20/10/249	T. C. Date	31/10/2020
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	27/10/2020
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	28/10/2020 To 31/10/2020

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Control Room			
Date of Sampling	26/10/2020			
Time of Sampling [Hrs]	14:10			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	28	Max.	34
Relative Humidity [%]	Min.	58	Max.	67

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	59.1	100.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	33.9	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	35.1	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	1.23	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.08	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	2.7	100.0 for 8 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	1.9	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	2.8	20.0	NAAQMS/36/2012-2013 Volume 1

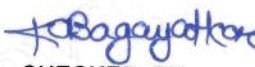
*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.


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