

Ref:MoEF/EC/JNPT/180520

Date: 18th May, 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 October 2019 to March 2020) 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 2019 to March 2020) 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.

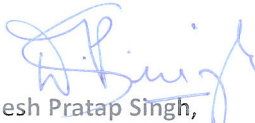
Also note that the Name of the company is changed from M/s Deepak Fertilisers and Petrochemicals Corporation Limited to **M/s Smartchem Technologies Limited** vide National Company Law Tribunal (NCLT) Order No. 89 of 2017 dated 30<sup>th</sup> March 2017.

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	1
2	Letter to MoEF dated 26.04.2017 (Change in name of company)	2
3	Copy of EC dated 29.08.1989	2
4	Copy of Consent To Operate valid up to 30.06.2020.	8
5	Laboratory Reports (M/S GADARK Lab.)	
	Annexure 1- Effluent Analysis (dated 22.10.2019 and 11.01.2020)	2
	Annexure 2 - Stack Emission Analysis (dated 22.10.2019 and 11.01.2020)	2
	Annexure 3 - Ambient Air Analysis (dated 22.10.2019 and 11.01.2020)	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 2019 to March 2020):-**

**Date – 1st June 2020.**

**GENERAL CONDITIONS:**

<b>Sr. No.</b>	<b>Type of Compliance</b>	<b>Status: Complied / Not complied / Not Applicable</b>
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 22.10.2019 and 11.01.2020)

o/c



SMARTCHEM  
TECHNOLOGIES  
LIMITED

Ref:MoEF/EC/JNPT/260417

Date: 26<sup>th</sup> 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 30<sup>th</sup> 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 30<sup>th</sup> 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-Code:RSN

To:MINISTRY OF ENVIRONM.

NAGPUR. PIN:440001

From:DEEPAK FERTILIZER . TALDJA

Wt:413grams.

Am:125.00 27/04/2017 13:03

<<Track on www.indianpost.gov.in>>





पाठविणाच्या टपाल कार्यालयाचा शिक्का  
प्रेषक डाकघर की नाम-मोहर  
Name-stamp of office of posting

बारकोड साठी जागा  
बारकोड छपाई की जगह  
Space for Bar Code printing

डाक सेवार्थ  
On Postal  
Service

पाठविणाच्याचा पत्ता  
भेजनेवाले का पता  
Sender's address

Deepak Fertiliser & Petrochemical  
Corporation Ltd.

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

पिन/PIN 410208

कृपया या रेवेच्या खाली लिहू किंवा छापू नये.  
कृपया इस लाईन के नीचे न लिखें या छापे  
Please do not write or print below this line

भारतीय टपाल विभाग  
भारतीय डाक विभाग  
DEPARTMENT OF POSTS

आर.पी.-54  
R.P.-54

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

Addressed to/प्राप्त करणारा/Address of the Recipient

Naqurpur - 440 011 001

को/On

दिनांक/Date

वितरण टपाल कार्यालयाचा तारीख छाप  
वितरण डाकघर की तारीख-मोहर  
Date stamp of office of delivery

स्वाक्षरी आणि नाव / हस्ताक्षर और नाम/  
Signature and Name



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.

.....

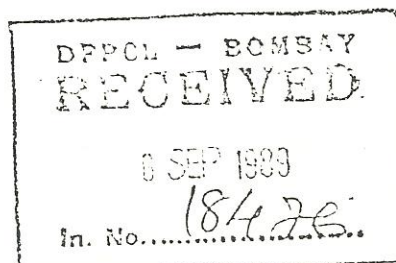
This has reference to letter No. DFFCL/TLI/21-A/89 dated 1st August, 1989 received from Deepak Fertilisers and Petrochemicals Corporation Ltd., regarding the above mentioned subject.

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

Phone : 4010437/4020781  
/4037124/4035273  
Fax : 24044532/4024068 /4023516  
Email : enquiry@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

Consent order No :- Formate 1.0/ BO/CAC-Cell/ EIC No NM-5001-14/2ndCAC/ 3770  
Date- 17/03/2016

To,

Deepak Fertilisers & Petrochemicals Corporation Ltd.  
Plot No. 1, JNPT Tank Farm Area, JNPT,  
At/Po Nhava, Tal-Uran, Dist- Raigad

Subject: Renewal of consent to operate with increase in CI under RED category.  
Ref: 1. Earlier Consent granted vide no. format 1.0/BO/CAC-Cell/EIC.NM-5001-14/2ndCAC-4261 dated 05.05.2014  
2. Your application approved in CAC meeting held on 02.02.2016.

Your application: CR1512000120

Dated: 26.10.2015

For: Renewal of consent to operate with increase in CI 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 5 of the Hazardous Wastes (M, H & T M) Rules 2008 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:

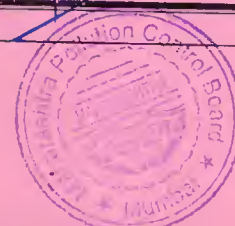
1. The consent is granted for a period from 01.02.2016 upto 30.06.2020.
2. The actual capital investment of the industry is Rs. 119.98 Crs. (As per C.A.Certificate submitted by industry)
3. The Consent is valid for the

Sr. no.	Tank No	Product/By-Product Name	Maximum quantity	UOM
1.	1	Storage & Handling of Phosphoric acid	7000	KL
2.	2	Storage & Handling of Phosphoric acid	7000	KL
3.	T-1	Storage & Handling of Liquid Ammonia (Atmospheric pressure)	15000	MT

The above mentioned storage tanks are for captive consumption only.

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

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	6	As per Schedule -I	Recycled to maximum extent and remaining in land for gardening
2.	Domestic effluent	1.9	As per Schedule -I	Septic tank / Soakpit





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

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	DG sets (625 KVA, 500 KVA)	2	As per Schedule -II

6. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Used/Spent Oil	5.1	1	MT	—	Sale to register recycler through sister concern M/s Deepak Fertilisers & Petrochemicals Corporation Ltd. Plot K-8, MIDC Taloja.

7. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
8. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

For and on behalf of the  
Maharashtra Pollution Control Board



(Dr. P. Anbalagan, IAS)  
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	1199960	006888	21.10.2015	IDBI
2	25000	007047	11.12.2015	IDBI

The balance fees of Rs 165136/- shall be considered at the time of next renewal of consent.

Copy to:

- Regional Officer -Navi Mumbai and Sub-Regional Officer-Taloja MPCB, They are directed to ensure the compliance of the consent conditions.
- Chief Accounts Officer, MPCB, Mumbai.
- CC/CAC desk- for record & website updation purposes.

### Schedule-I

#### Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 6 CMD.

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	Standards prescribed by Board (If any)
		Limiting Concentration in mg/l, except for pH
01	pH	6.0-8.5
02	Temperature	Should not exceed 5°C above the ambient temperature of the receiving body
03	Oil & Grease	10
04	BOD (3 days 27°C)	100
05	Total Dissolved Solids	2100
06	Bioassay Test	90% survival of fish after first 96 hrs in 100% effluent
07	Free Ammonia	5
08	Total Ammonical Nitrogen	50

C) The treated effluent shall be recycled to maximum extent and remaining shall be disposed on land for gardening. No effluent should be discharged out from the factory premises.

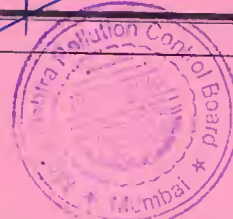
2) A.] As per your consent application, you have provided the septic tanks and soak pits.

B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

- |     |                   |               |     |       |
|-----|-------------------|---------------|-----|-------|
| (1) | Suspended Solids. | Not to exceed | 100 | mg/l. |
| (2) | BOD 3 days 27°C.  | Not to exceed | 100 | mg/l. |

C] The treated sewage shall be soaked in a soak pit, which shall be got cleaned periodically.

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 /and 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.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I 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
2.	Domestic purpose	2.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	3.0
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.0

- 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.





## Schedule-II

### Terms & conditions for compliance of Air Pollution Control:

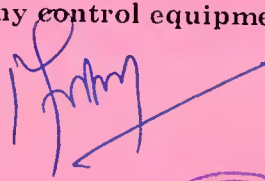
1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs	Type of Fuel	Quantity & UoM	S %	SO <sub>2</sub> Kg/Day
1	DG set 625 KVA	Stack	6	HSD	130 LPH	1	62.4
2	DG set 500 KVA	Stack	6	HSD	130 LPH	1	62.4

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. Flare stack of 40 mtrs height with burner (with fuel LPG = 4 Kg/Hr) should be provided.
4. Vapour trap should be provided to storage tanks.
5. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm <sup>3</sup> .
--------------------	---------------	--------------------------

6. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
7. 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).



**Schedule-III**  
**Details of Bank Guarantees**

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	Rs 5 lakhs	Submitted *	O & M of Pollution Control System	30.06.2020	30.10.2020

\*The BG of Rs 5 lakh obtained towards O & M of PCS shall be extended for a period upto 30.10.2020.



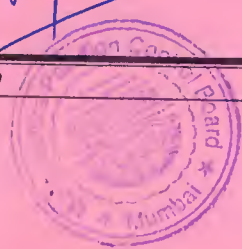
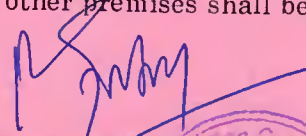




#### Schedule-IV

##### General Conditions:

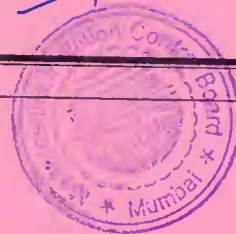
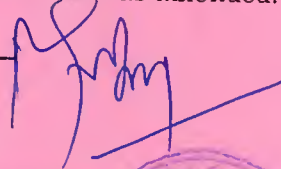
- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) The firm shall submit to this office, the 30th day of September every year , the Environmental 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.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, 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.
- 8) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30<sup>th</sup> June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent**
- 11) 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](http://www.mpcb.gov.in)).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) 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.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.





- 15) 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.
- 16) 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 MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 17) The industry should not cause any nuisance in surrounding area.
- 18) 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.
- 19) The applicant shall maintain good housekeeping.
- 20) 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 31<sup>st</sup> March of the year and number of trees planted by September end.
- 21) 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.
- 22) 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.
- 23) 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.
- 24) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

—0000—





# 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) 25777069 / 70

### TEST CERTIFICATE

Doc. No: GLPL/QF/5.10/01

Test Certificate No.	GW/O/19/3414	T.C. Date:	30/10/2019
Customer Name and Address	<b>M/s. SMARTCHEM TECHNOLOGIES LIMITED</b> <b>PLOT NO 1, JNPT, NHAVA SHEVA,</b> <b>TAL-URAN, DIST. - RAIGAD.</b>		
Letter Ref/Date	---		
Lab Reference No.	GW/O/19/3414	Page No.	1 of 1
Sampling Done By	GLPL On 22/10/2019	Sample Received on	23/10/2019
Sample Submitted by	GLPL	Analysis Period	23/10/2019 To 30/10/2019
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	---	6.50	6.0 To 8.5	APHA 4500 H <sup>+</sup>
Temperature	°C	28	-----	APHA 2550 B
COD	mg/ltr	200	250 Max.	APHA 5220 B
BOD 3 days 27°C	mg/ltr	50	100 Max.	IS 3025 (Part 44) : 1993
Total Suspended Solids at 105°C	mg/ltr	39	100 Max.	APHA 2540 D
Total Dissolved Solids at 180°C	mg/ltr	570	2100 Max.	APHA 2540 C
Oil & Grease	mg/ltr	2	10 Max.	APHA 5520 B
Phosphate	mg/ltr	0.69	5 Max	APHA 4500 P - D
Total Ammonical Nitrogen	mg/ltr	12.3	50 Max	APHA 4500 NH <sub>3</sub> A
Total Kjeldhal Nitrogen	mg/ltr	16.8	100 Max	APHA 4500 N <sup>org</sup> B
Free Ammonia	mg/ltr	0.02	4 Max	APHA 4500 NH <sub>3</sub> C

#### MODIFIED BIO-ASSAY TEST ON FISH :-

The Undiluted Treated Effluent was examined for Modified Bio-assay test on fish, which showed 92% survival in 96 hours. (Test Method : IS 6582/2003)

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) 25777069 / 70

### TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/O/20/0174	T.C. Date:	17/01/2020
Customer Name and Address	<b>M/s. SMARTCHEM TECHNOLOGIES LIMITED</b> <b>PLOT NO 1, JNPT, NHAVALI SHEVA,</b> <b>TAL-URAN, DIST. - RAIGAD.</b>		
Letter Ref/Date	---		
Lab Reference No.	GW/O/20/0174	Page No.	1 of 1
Sampling Plan	Quarterly	Sampling Method	APHA 1060
Sampling Done By	GLPL On 11/01/2020	Sample Received on	13/01/2020
Sample Submitted by	GLPL	Analysis Period	13/01/2020 To 17/01/2020
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	---	6.4	6.0 To 8.5	APHA 4500 H <sup>+</sup>
Temperature**	°C	27	-----	APHA 2550 B
COD	mg/ltr	86	250 Max.	APHA 5220 B
BOD 3 days 27°C	mg/ltr	23	100 Max.	IS 3025 (Part 44) : 1993
Total Suspended Solids at 105°C	mg/ltr	42	100 Max.	APHA 2540 D
Total Dissolved Solids at 180°C	mg/ltr	1035	2100 Max.	APHA 2540 C
Oil & Grease	mg/ltr	< 0.1	10 Max.	APHA 5520 B
Phosphate**	mg/ltr	0.36	5 Max	APHA 4500 P - D
Total Ammonical Nitrogen**	mg/ltr	8.4	50 Max	APHA 4500 NH <sub>3</sub> A
Total Kjeldhal Nitrogen**	mg/ltr	21.8	100 Max	APHA 4500 N <sup>org</sup> B
Free Ammonia**	mg/ltr	0.022	4 Max	APHA 4500 NH <sub>3</sub> 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]

  
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.
5. \*\* 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) 25777069 / 70

## TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/10/327	T. C. Date	30/10/2019
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO. 1, JNPT, NHAVA SHEVA, TAL. URAN, DIST. - RAIGAD		
Letter Ref / Date .	---		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	23/10/2019	Analysis Period	24/10/2019 To 25/10/2019

### SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET (625 KVA)
Stack Dimension [mm]	125
Date of Sample collection	22/10/2019
Time of Sampling [Hrs]	12:45
Temperature of flue gas [°C]	135
Average flue gas velocity [m/s]	8.6
Average volume of flue gas discharged [Nm <sup>3</sup> /hr]	277

### ANALYSIS REPORT :

Parameters	Units	Results	Test Methods
TPM / SPM	mg/Nm <sup>3</sup>	39.9	Laboratory Analytical Techniques / 80 / 2013-14 / CPCB
Sulphur Dioxide	mg/Nm <sup>3</sup>	98.0	
	Kg/day	0.65	
NOx	mg/Nm <sup>3</sup>	27.7	

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.



# 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) 25777069 / 70

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/01

Test Certificate No.	GA/20/01/179	T. C. Date	17/01/2020
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	13/01/2020
Sampling Plan	Quarterly	Analysis Period	14/01/2020 To 15/01/2020

### SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET (625 KVA)
Stack Dimension [mm]	125
Date of Sample collection	11/01/2020
Time of Sampling [Hrs]	13:15
Temperature of flue gas [°C]	180
Average flue gas velocity [m/s]	10.8
Average volume of flue gas discharged [Nm <sup>3</sup> /hr]	314

### ANALYSIS REPORT :

Parameters	Units	Results	Sampling & Analysis Methods
TPM / SPM	mg/Nm <sup>3</sup>	35.3	Laboratory Analytical Techniques / 80 / 2013-14 / CPCB
Sulphur Dioxide	mg/Nm <sup>3</sup>	102.7	
	Kg/day	0.77	
NOx	mg/Nm <sup>3</sup>	28.6	

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.





# 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) 25777069 / 70

### TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/10/328	T. C. Date	30/10/2019
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NO. 1, JNPT, NHAVA SHEVA, TAL., URAN, DIST. - RAIGAD		
Letter Ref / Date .	---		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	23/10/2019	Analysis Period	24/10/2019 To 30/10/2019

#### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Control Room			
Date of Sampling	22/10/2019			
Time of Sampling [Hrs]	12:30			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	30	Max.	33
Relative Humidity [%]	Min.	65	Max.	72

#### ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM <sub>10</sub>	µg/m <sup>3</sup>	58.1	100.0	NAAQMS/36/2012-2013 Volume 1
PM <sub>2.5</sub>	µg/m <sup>3</sup>	25.9	60.0	NAAQMS/36/2012-2013 Volume 1
SO <sub>2</sub>	µg/m <sup>3</sup>	34.6	80.0	IS 5182 (Part II) 2012
NO <sub>2</sub>	µg/m <sup>3</sup>	36.3	80.0	IS 5182 (Part VI) 2012
CO	mg/m <sup>3</sup>	1.18	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m <sup>3</sup>	< 0.01	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m <sup>3</sup>	< 20.0	100.0 for 8 Hrs.	APHA Method 411 3 <sup>rd</sup> Edition
Ammonia	µg/m <sup>3</sup>	< 14.0	400.0	APHA Method 401 3 <sup>rd</sup> Edition
Benzene	µg/m <sup>3</sup>	< 1.0	5.0	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m <sup>3</sup>	< 0.1	1.0	IS 5182 (Part 12 ):2004
Arsenic	ng/m <sup>3</sup>	< 0.7	6.0	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m <sup>3</sup>	< 6.0	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]

#### 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.





# 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) 25777069 / 70

### TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/01

Test Certificate No.	GA/20/01/180	T. C. Date	17/01/2020
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	13/01/2020
Sampling Plan	Quarterly	Analysis Period	14/01/2020 To 17/01/2020

#### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Control Room			
Date of Sampling	11/01/2020			
Time of Sampling [Hrs]	13:00			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	18	Max.	29
Relative Humidity [%]	Min.	52	Max.	70

#### ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM <sub>10</sub>	µg/m <sup>3</sup>	60.4	100.0	NAAQMS/36/2012-2013 Volume 1
PM <sub>2.5</sub>	µg/m <sup>3</sup>	29.6	60.0	NAAQMS/36/2012-2013 Volume 1
SO <sub>2</sub>	µg/m <sup>3</sup>	32.9	80.0	IS 5182 (Part II) 2012
NO <sub>2</sub>	µg/m <sup>3</sup>	34.5	80.0	IS 5182 (Part VI) 2012
CO	mg/m <sup>3</sup>	1.23	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m <sup>3</sup>	0.03	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m <sup>3</sup>	2.2	100.0 for 8 Hrs.	APHA Method 411 3 <sup>rd</sup> Edition
Ammonia	µg/m <sup>3</sup>	1.2	400.0	APHA Method 401 3 <sup>rd</sup> Edition
Benzene	µg/m <sup>3</sup>	< 1.0	5.0	IS 5182 (Part 11) 2006
Benzo Pyrene **	ng/m <sup>3</sup>	< 0.1	1.0	IS 5182 (Part 12 ):2004
Arsenic **	ng/m <sup>3</sup>	< 0.4	6.0	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m <sup>3</sup>	4.1	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]

#### 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.

CHECKED BY