

STL-K1/EHS/Env/2021-22/16

Date: 24-NOV-21

**Additional Principal Chief Conservator of Forest (C),
Ministry of Environment, Forest & Climate Change,
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariate Building, Civil Lines
Nagpur – 440 001, Maharashtra.**

Reference:

1. EC granted for for NPK Fertilizer Manufacturing Unit (F.No. J-11011/167/2016-IA II (I), dt 02.09.2019, EC transed to M/s. Smartchem Technologies Limited on 18.12.2020, amendment on 16.11.2021.

Sub: Half yearly Environmental Clerance Compliance report.

Dear Sir,

Please find enclosed the half yeraly EC compliance report of **NPK Fertilizer Manufacturing Unit** for the period of **April-2021 to September -2021**.

This is for your information and records please.

Thanking you,

Yours faithfully,

For, SMARTCHEM TECHNOLOGIES LTD.,



DEEPAK PANDE
Head (EHS)

CC :

1. SRO, MPCB, Raigad Bhavan, 7th Floor, Sector-11, CBD-Belapur, Navi Mumbai – 400614.
2. Ministry of Environment, Forest, 1st Floor, New Administrative Building, Mantralaya, Mumbai – 400032.
3. CPCB Parivesh Bhawan, Opp. VMC Ward Office No. 10, Shubhanpura, Vadodara, Gujarat 390023.

DATA SHEET		
1	Project type: River - valley/ Mining / Thermal/ Industry / Nuclear/ Other (specify)	Industry
2	Name of the project	Expansion of Fertilizer plant of Deepak Fertilisers and Petrochemicals Corporation Limited at Plot K1-K5 , MIDC Industrial area , Taloja , District Raigad, Maharashtra - Transfer of Environment Clearance regarding, EC transferred to M/s Smartchem Technologies Limited on 18.12.2020
3	Clearance letter (s) /OM No. and Date	EC granted for for NPK Fertilizer Manufacturing Unit 11.25 Lakhs MTPA Project vide no. F. No. J-11011/167/2016-IA II (I) datd. 02.09.2019, EC transferred to M/s Smartchem Technologies Limited on 18.12.2020
4	Location	
	a. District (S)	Raigad
	b. State (S)	Maharashtra
	c. Latitude/longitude	19°03'57.6"N/73°07'58.8"E
5	Address for correspondence	
	a. Address of Concerned Project Chief Engineer (with pin code & Telephone/ telex/ fax numbers	Mr. Deepak Pande (Sr.GM-EHS), M/s Smartchem Technologies Limited. Plot No. K-1, MIDC Industrial area, Taloja, District Raigad – 410208, Maharashtra. Phone: - 022-50684221, 9920942161
	b. Address of Executive Project: Engineer/Manager (with pincode/ Fax numbers)	Same as above
6	Salient features	
	a. of the project	Annexure-A (Sailent Feature of Project)
	b. of the environmental management plans	Annexure-B (EMP of Project)
7	Break up of the project area	
	a. submergence area forest & non forest	NA, (MIDC Land)
	b. Others	NA
8	Break up of the project affected Population with enumeration of Those losing houses/dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan	NA, (MIDC Land)
	a. SC, ST/Adivasis	NA, (MIDC Land)
	b. Others (Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey)	NA
9	Financial details.	
	a. Project cost as originally planned and subsequent revised estimates and the year of price reference	190 Crores
	b. Allocation made for environmental management plans with item wise and year wise Break-up.	Yes. Year 2021-22. 1. Rs. 39 lakhs for Plantation and Maintenance of Tree plantation 2. Rs. 60 lakhs for Green Belt development 3. Rs. 20 lakhs for plantation nearby village 4. .Rs. 62 lakhs for IIT study for NPK EC study 5. Rs. 16 lakhs for ETP1 improvements 6. Rs. 8 lakhs for AMC for CEMS 7. Rs. 0.5 lakhs for AMC for AAQMS 8. Rs. 0.7 lakhs AMC for PM Analyzer 9. Rs. 01 lakhs for OCEMS Glens portal development
	c. Benefit cost ratio/Internal rate of Return and the year of assessment	-
	d. Whether (c) includes the Cost of environmental management as shown in the above.	Yes
	e. Actual expenditure incurred on the project so far.	Rs. 190 Cr.
	f. Actual expenditure incurred on the environmental management plans so far	For environment we have invested in OCMES system, installed new weather monitroing station, and in continutaion to our ealier investment on green belt we are further addting new area along the plant premises for green belt development.
10	Forest land requirement	NA, (MIDC Land)
	a. The status of approval for diversion of forest land for non-forestry use	NA, (MIDC Land)
	b. The status of compensatory afforestation program in the light of actual field experience so far	NA, (MIDC Land)
11	The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information	NA, (MIDC Land)
12	Status of construction	Project is under completion.
	a. Date of commencement (Actual and/or planned)	2 LMPTA expansion is expected to start in early 2022.
	b. Date of completion (Actual and/of planned)	
13	Reasons for the delay if the Project is yet to start	NA
14	Dates of site visits	-
	a. The dates on which the project was monitored by the Regional Office on previous Occasions, if any	NA
	b. Date of site visit for this monitoring report	NA
15	Details of correspondence with Project authorities for obtaining Action plans / information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits	NA

1 INTRODUCTION AND BACKGROUND

Deepak Fertilisers and Petrochemicals Corp. Ltd. (DFPCL) proposed the expansion unit for manufacturing of multiple grades of NPK fertilizer making overall capacity – **11.25 lacs MTPA** at Plot No. K-1 to K-5, Taloja M.I.D.C., Village Tondre, Taluka Panvel, District Raigad, State Maharashtra.

1.1 PURPOSE OF THE REPORT

Purpose of the report is to identify environmental aspects, impacts & mitigation measures arising out from the proposed Greenfield multipurpose plant for manufacturing of various complex fertilizer and prepare EIA/EMP and RA/DMP report as per ToR issued by MoEFCC on 21st September, 2016 and seek environmental clearance.

This report is prepared based on 'General Structure of EIA' given in Appendix III and IIIA of mentioned EIA Notification.

1.2 IDENTIFICATION OF PROJECT PROPONENT & PROPOSED PROJECT

1.2.1 Project Proponent & Existing Unit

The Deepak Group of Industries came in to existence during 1970's when Mr. C.K. Mehta set up Deepak Nitrite Ltd. Since then the company grew up by leaps and bounds, and won many prestigious awards like Sir P.C. Ray award, for being the best Chemical Industrial unit in India.

In 1983, Deepak Fertilizers and Petrochemicals Corporation Limited (DFPCL) started commercial production of ammonia (in technical collaboration with Fish International Engineers (USA), using natural gas as feed stock. This marked the fulfilment of a need for lateral integration into the world of basic building block chemicals, premium fertilizers and petrochemicals. At that time, this was India's only merchant ammonia manufacturer. The International Finance Corporation initially supported this venture of Deepak group in the form of equity participation in DFPCL.

The company undertook major expansion and diversification in 1989 to achieve forward integration of Ammonia and diversification in Methanol.

In July 1992, DFPCL commenced commercial production of Low Density Ammonium Nitrate (LDAN), Nitro Phosphate (NP) Dilute Nitric Acid (DNA), and Concentrated Nitric Acid (CNA). This has resulted in a multi-product portfolio for DFPCL consisting of chemicals, petrochemicals, fertilizers and other agri-inputs. To ensure an uninterrupted supply of natural gas to its plant, DFPCL laid its own 43 km gas pipeline from the coastal fall point of Bombay High to its plants in Taloja, thus becoming one of the first companies in India to have its own gas pipeline.

DFPCL has a chemical storage terminal at Jawaharlal Nehru Port Trust (JNPT) to provide support to its logistics management system and ensure a window to the world trade in chemicals. DFPCL was one of the first companies in India to have its own gas NG pipeline (43 Km) from the coastal fall point of Bombay High to its plants in Taloja. It is in the process of adding new storage facilities for Ammonia, Methanol and other products.

In year 2015-16, DFPCL clocked Turnover of INR 4,000 Crore.

1.2.2 Proposed Project

DFPCL is now proposing an expansion unit for manufacturing of multiple grades of NPK fertilizer making overall capacity – 11.25 lakh MT per annum at its Taloja facilities.

As per the EC issued dated 12.10.2015, DFPCL is constructing multiple grades NPK fertilizer (Granulation) plant with a capacity of 6 Lakh MTPA. DFPCL manufactures ANP Fertilizer (Prilling Unit) with capacity of 3.25 Lakhs MTPA in existing complex, which is in operation since 1989.

In earlier EC approval phase DFPCL had proposed to discontinue existing ANP plant due to non-availability of required quality Phosphoric Acid. Now as DFCPL has the required sources of Phosphoric Acid and enhanced persistent demand of Prilled ANP in the local market DFPCL wish to continue with the manufacturing of ANP (Prilled) Fertilizer.

Capacity of NPK Granulation plant under construction has got inbuilt additional operating capacity of 2 Lakhs MTPA (2 no. trains) so as to take total capacity to 8 lakhs MTPA. Reference Letter from Technology Licensor provided in **Annexure 1**.

With existing ANP plant (Prilling Unit) capacity 3.25 Lakhs MTPA and proposed NPK (Granulation) capacity utilization up to 8 Lakhs MTPA, overall fertilizer production will be 11.25 Lakh MTPA.

Utilization of this available operating capacity will not have any additional environmental impact as the plant is designed on the basis of Zero liquid discharge and systems are designed to control additional emissions from stack.

While there is no change in the process plant section in order to handle 11.25 Lakh MTPA like RM storage, finished goods storage, handling, Auto-bagging and truck loading system. The Bagging section is designed with adequate & efficient dust extraction systems and will be in dust free environment.

Project is for manufacturing of fertilizer products. Thus, the proposed products fall under 5(a), *Chemical Fertilizers*, 'Project or Activities' listed within the Category to the EIA Notification dated September 14th, 2006 (amended till date). This project is classified as Category "A" project.

1.3 BRIEF DESCRIPTION OF PROJECT & ITS IMPORTANCE TO THE COUNTRY & REGION

1.3.1 Brief Description of the Project

The brief description of the project is given in **Table 1-1**.

Table 1-1: Brief Description of the Project

S No.	Details	Description
1	Nature	Expansion unit for manufacturing of multiple grades of NPK fertilizer, overall capacity – 11.25 lakh MT per annum
2	Size	Plot Area: 3,03,619 m ² . Product and their capacities are shown in Table 2-3 .
3	Location	Plot No. K-1 to K-5, Taloja M.I.D.C., Village Tondre, Taluka Panvel, District Raigad, State Maharashtra.
4	Cost of the project	~ INR 190 Crore

10 ENVIRONMENTAL MANAGEMENT PLAN

This chapter describes the administrative aspects of ensuring that mitigative measures are implemented and their effectiveness monitored, after approval of the EIA.

10.1 INTRODUCTION

The EIA study for the proposed project has identified impacts that are likely to arise during different phases of the project. The study has also examined the extent to which the adverse impacts identified can be controlled through the adoption of mitigation measures. The Environment Management Plan describes both generic good practice measures and site-specific measures, the implementation of which is aimed at mitigating potential impacts associated with the proposed activities.

10.2 PURPOSE OF EMP

The environment management plan is prepared with a view to facilitate effective environmental management of the project, in general and implementation of the mitigation measures in particular. The EMP provides a delivery mechanism to address potential adverse impacts and to introduce standards of good practice to be adopted for all project works. For each stage of the programme, the EMP lists all the requirements to ensure effective mitigation of every potential biophysical and socio-economic impact identified in the EIA. For each impact or operation, which could otherwise give rise to impact, the following information is presented:

- Role of DFPCL and its contractors;
- A comprehensive listing of the mitigation measures (actions) that DFPCL will implement;
- The parameters that will be monitored to ensure effective implementation of the action;
- The timing for implementation of the action to ensure that the objectives of mitigation are fully met.

10.3 ENVIRONMENT MANAGEMENT PLAN

10.3.1 Air Environment

Properly designed and appropriate air pollution control equipment will be attached to process vents. Effective measures will be taken to control fugitive emissions. Emission control measures will be taken to ensure air emission standards and norms are strictly followed.

10.3.2 Water Environment

The wastewater generated from the proposed unit will be treated in two ETPs followed by RO and the treated water will be completely recycled and reused in plant premises resulting Zero Liquid Discharge. Rainwater harvesting from rooftop of administrator building and green belt shall be done.

Quantity of Rain water collected depends upon:

- Average annual rainfall intensity
- Run-off coefficient

For rainwater collection calculations, Plant areas are excluded due to having chances of rainwater contamination.

The nearest IMD station is Mumbai (Colaba) having average annual rainfall 2,184.1 mm/annum and maximum rainfall intensity is 575.6 mm/day.

Based on IMD data, detailed rain water availability calculation is given below **Table 10-1**.

As per area breakup, greenbelt, road area, administration and security building is consider for rainwater collection.

Table 10-1: Calculation of Available Rainwater

Description	Area in m ²	Maximum rainfall intensity per annum In m/annum	Maximum rainfall intensity per annum In m/day	Runoff coefficient	Total rainwater In m ³ /annum	Maximum rainwater In m ³ /day
Roof top	814.66	2.184	0.575	0.8	1,423.43	375.13
Paved	6,795	2.184	0.575	0.5	7,420.47	1,955.60
Green belt	60,562	2.184	0.575	0..2	26,453.48	6,964.63
Total					35,297.38	9,295.36

At present, the source is MIDC water source supply. Maximum utilization of rainwater, by using possible system/methodology, is the only option. In existing plant, roof water is collected and used in cooling tower.

It is suggested to store and use maximum available rainwater to reduce the fresh water consumption.

The rainwater availability calculations shows 1,423.43 m³ rainwater will be available annually from roof top run off which can be put to recharge through injection wells.

The rainwater availability calculations shows 33,873.95 m³ rainwater will be available annually from Green and road area and for one day maximum value will be 8,920.23 m³. It is advisable to divert this surplus water into water reservoir for reuse.

For assessing the impact of the development both the pre and post project stage information on various parameters of water quality and quantity is necessary and therefore for collecting this information, construction of piezometers are recommended.

- In order to assess its effectiveness, observation piezometer wells need to be constructed near ETP/storage area
- These Piezometer wells can be tested to monitor water level fluctuations and water quality variation with respect to space, depth and time. Periodic water level measurement (Pre& Post Monsoon i.e. May & Oct.) and water sample collection for its analysis to monitor water quality variation, if any is recommended.

10.3.3 Land and Soil Environment

Management of Solid Hazardous Waste will be ensured by taking care of the following steps:

- Properly designed storage area for hazardous waste with adequate capacity will be ensured;
- Prior permissions for TSDF will be taken and prior agreements with authorized vendors shall be made;

- Discarded container, drums, packing material etc. shall be decontaminated and sold to authorized vendors;
- Used/spent oil will be disposed to CPCB authorized Recyclers, Waste/residue containing oil disposed off to CHWIF;
- Contaminated hand gloves, discarded containers / barrels / bags shall be sold to authorized vendors;
- Scraps, used spares, cotton waste, contaminated hand gloves, discarded containers / barrels / bags shall be sold to authorized vendors.

Environmental Monitoring Plan for suggested mitigation measures and monitoring plan will include:

- Proper hazardous waste inventory accounting by HSE department;
- Monthly review by plant head in the production meeting;
- Monitoring for reduction in generation of hazardous waste quantity by director;
- Internal audit of hazardous waste storage area as per ISO system;
- Compliance of statutory conditions & reporting in environmental audit report;
- Reviewing time bound action plan for imparting training to drivers and availability of TREM cards.

10.3.4 Ecology and Biodiversity Environment

Proposed expansion (capacity expansion) will take place within existing project boundary. No extensive clearing of floral components will be required so no significant or permanent impact on the habitat structure of associated faunal diversity is expected. Factory premises possess already undergone will developed greenbelt which provides habitat for urban biodiversity (especially small mammals and birds). All ecologically sensitive attributes are out of impact zone. Plantation has been suggested under conservation plan in this forest area to improve habitat status of the forest area. Altogether, proposed expansion activity may not have influence on the biological components significantly provided that the suggestions / recommendations in this report are implemented. Strict implementation of EMP / mitigation measures are required to ensure that the biodiversity of the study area should not impacted negatively.

10.3.5 Socio Economic Environment

During the field survey it is revealed that none of the households are likely to be affected by the proposed expansion project. The Deepak Fertilizers and Petrochemical Corporation is already existing in Talaja, MIDC area since last 35 years. In this settlement maximum population is the migratory hailing from within or outside state. The Community Development programme can be conducted under CSR Scheme by DFPCL for the infrastructural and socio-economic development of the nearby areas. Thus it may help the project proponent to have better rapport with the localities'.

Issues Raised and Mitigation Measures Suggested

The social issues raised and mitigation measures suggested during the social survey for the proposed projects is presented in the below given **Table 10-2**.

Table 10-2: Issues Raised and Mitigation Measures Suggested

Social Component	Issues Discussed / Raised	Mitigation / Enhancement Measures
Health and Hygiene	<ul style="list-style-type: none"> • Presence of Odour smell and gas emissions from the existing industrial units of Talaja MIDC, area. • The medicines supplied through state the government in the Vavenja Village PHC is inadequate. • Medical/Health check-up camps to be arranged at regular interval in all the surrounding villages by DFPCL. 	<ul style="list-style-type: none"> • Regular Monitoring will be carried out by the Compliance Agency with strict follow up of CPCB Guidelines and other regulatory agencies/NGO. • The DFPCL will take initiative to improvise the generic medicine distribution under CSR Scheme in consultation with the Medical Officer. • DFPCL's HR /CSR Department will organise the medical camps at regular interval for the surrounding habitation.
Safe Drinking Water	<ul style="list-style-type: none"> • Provision of RO water for School children. • Tap connection for all the Anganwadi and Primary Schools in the village falling in the close proximity of the industrial area. 	<ul style="list-style-type: none"> • Local bodies/HR (Administration) department needs to monitor regular supply of drinking water and provide new tap connection with regular supply of water under CSR Scheme.
Education	<ul style="list-style-type: none"> • Installation of Children play equipments at open space of RZP primary school ground of Pale Khurd village. • Distribution of about 1200 Nos. of school uniforms for Anganwadi and primary schools children of Pale Khurd, Padghe, Pender, Valap and Devichapada village. • Supply of overhead projectors for teaching students in the RZP primary schools of Devichhapada, Pale Khurd, Kanpoli, Valap, Pendhar, Padghe, Vavanje etc. • Distribution of furniture like tables, plastic chairs, Ceiling fans, Rack for shoes, sound system etc. • Supply of water filter for Anganwadi and other educational institutions. • Supply of sports equipment in different Schools/Colleges of the nearby areas. 	<ul style="list-style-type: none"> • DFPCL will consider the requirement under CSR Scheme after conducting need based assessment.
Infrastructure Development	<ul style="list-style-type: none"> • Renovation of School Building at RZP at Devichhapada and Pale Khurd Village. • Provision of water tank with piped water facility for toilets at the RZP primary schools located at Padghe, Devichhapda village. • Construction of 2 Nos. classroom and flooring of the existing classroom at RZP Primary School, Pale Khurd. 	<ul style="list-style-type: none"> • The DFPCL will adopt the primary schools of the villages falling in the close proximity of the proposed site for regular renovation & maintenance of School Building, toilets under company's CSR Scheme. • The DFPCL will undertake the work under CSR Scheme in phase wise manner seeing the priority and availability of fund.

Social Component	Issues Discussed / Raised	Mitigation / Enhancement Measures
	<ul style="list-style-type: none"> Up gradation of the internal village road in consultation with the MNP/Panchayat at Devichapda, Pale Khurd, Vavenje village in phasewise manner. 	

Proposed CSR Activities (Based on Individual Interview, Group Discussion and Visual Perception)

Based on the socio-economic survey and stakeholder consultation the following social concerns have been identified with respect to the general condition of the nearby residents/villages of study area:-

- Maximum numbers of migratory labourer in Talaja MIDC area hailing from within and outside state.
- Inadequacy of sanitation facilities and personal hygiene practices;
- Provide piped tap water to the various toilets of RZP primary school.
- Distribution of education aids to the anganwadi and primary school which is in the close proximity of the proposed site.
- Odour smell and effluent discharge from the industrial premises to creek during monsoon season;
- Improvement in the infrastructural development by the DFPCL through CSR Scheme.
- Increase in the employment opportunities for the local people with the development work both as construction worker as well as service provider.

Budgetary Provision for CSR Activities

On the basis of total capital investments, the project proponent earmarks more than INR 4.75 Crores for the following CSR/social developmental activities. The allocated amount may vary time to time on the need based CSR in the surrounding areas of the proposed project.

Table 10-3: Budget Allocation for Implementation of CSR Activities (Break up of 5 Years)

S. No.	Proposed Activity	Year wise allocation of Fund (INR In Lakh)					
		2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Total Amount
1	Educational Activities	17.10	18.81	20.69	22.76	25.04	104
2	Medical & Health Facilities	12.15	13.37	14.70	16.17	17.79	74
3	Safe Drinking Water	16.05	17.66	19.42	21.36	23.50	98
4	Infrastructure Facilities	20.25	22.28	24.50	26.95	29.65	124
5	Skill Development/ Training	12.20	13.42	14.76	16.24	17.86	74
	Total Amount per Year	77.75	85.53	94.08	103.49	113.83	475
Total provision for 5 years - Rupees Four Hundred Seventy Five Lakhs (INR 4.75 Crores)							

The CSR plan has been made by taking into account of the feedback/expectation received during FGDs and Community Consultation at various location in the study area.

Conclusion

The other additional activities shall be undertaken as part of community development programme based on the availability of funds and other resources. These activities are highlighted as below:

- Providing Tricycle to the handicapped and physically challenged groups after Need Based Social Assessment;
- Providing fishing net for the fisherman communities;
- Imparting of suitable, need based and justifiable vocational training programmes to the nearby local residents;
- The safe supply of drinking water or providing RO plant where aftercare and maintenance can be taken care by the Panchayat/institution;
- Up gradation of the internal village roads and construction of Anganwadi in consultation with the Panchayat;
- Installing latest technology equipment's to control the air pollution;
- Arranging health check-up camps at the regular intervals;
- Providing basic amenities in the slum/migratory colonies to improve their quality of life;
- Most of the mitigation measures can be enhanced by adopting proper Grievance Handling Mechanism by the project proponent and proper implementation of Community Development activities at regular interval in the surrounding area. Adherence to community consultation and interactions with the local community will reduce the social issues and conflicts; to within acceptable levels.

Environment Clearance for NPK Fertilizer Manufacturing Unit 11.2 Lakhs MTPA dated 12.10.2015 (F.No. J-11011/167/2016-IA II (I), dt 02.09.2019, EC transfed to M/s. Smartchem Technologies Limited on 18.12.2020 by MoEF, IA Div., Indra Paryavaran Bhavn, Jor baug road, Delhi - 110 003.		
SN	Specific Conditions	Status of compliance as on 30/09/2021
a	Necessary permission as mandated under WPCPA-1974 & APCPA-1981, as applicable from time to time, shall be obtained from the SPCB.	CTO for 9.25 LMPTA multiple grade fertilizer is available. For expanded capacity of 2 LMPTA multiple grade fertilizer CTE application is with CAC of MPCB for approval. After CTE approval, CTO will be obtained before going for commercial production.
b	Necessary permission required under the HW and other waste (Mgt & transboundary movement) Rules 2016, shall be obtained and the provision contained in the rules shall be strictly adhered to.	CTO for 9.25 LMPTA multiple grade fertilizer is available. For expanded capacity of 2 LMPTA multiple grade fertilizer CTE application is with CAC of MPCB for approval. After CTE approval, CTO will be obtained before going for commercial production.
c	To control source and the fugitive emission, suitable pollution control devices shall be installed to meet the prescribed norms and / or the NNAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB / SPCB guidelines	Existing stack will be used for expanded capacity as they are designed stacks considering expanded capacity. The stacks height is as per CPCB / MPCB guidelines, which is equipped with APCD and the stacks are also connected to CPCB / MPCB. For fugitive emission monitoring in addition to thrid party MOEF approved lab analysis also provided continuous online AAQMS.
d	The green belt (GB) shall be developed in 31% i.e. 94122 m2 of the total project area along the plant periphery and also as committed by the project proponent, green belt shall be developed in additionally 2.6 acres' area (i.e. 10,600 m2) adjacent to the plots allotted by the MIDC for green belt development."	Complied.
e	National emission standard for fertilizer industry issued by the Ministry and amendment from time to time shall be followed.	Same is followed, process stacks are monitored through OCEMS as per the requirements. In addition thrid party lab sampling is also done.
f	10 meter wide green belt of perennial trees around periphery of the plant shall be developed.	Complied.
g	Fresh water requirement shall not exceed 17000 m3 / day from MIDC water supply and prior permission shall be obtained from the concerned authority	Noted
h	Only 1500 m3/day WW shall be sent to CETP	Noted. Various initiatives / projects are taken on this matter - 1. Solid recover from process effluent and recycling the operating processes. 2. Raw water polishing plant to increase regeneration duration of the DM plants and blow downs from cooling towers. 3. Using reject water from raw water polishing unit and ETP treated effluent in NPK process as feed water.
i	Closed cooling system shall be provided to the CT	Though we are taking help from IIT, Mumbai to find any physibility of using colosed cooling system in our kind of loarge water demand plant but it is well knon that the closed cooling system are vaiable for batch process and low volume cooling. Based on the IIT report we will revert back.
j	As proposed adequate scrubber shall be provided to all reactors. Scrubber efficiency shall be > 99.9%	Complied. OCEM of NPK have provided in built scrubber before process stacks for 6 LMPTA NPK plant and same will be sued for the expansion project.
k	1000 trees / year shall be planted during 5 years in nearby villages with the consultation of the villagers. Survival rate of plants shall be reported to RO, MOEFCC in 6 monthly compliance report.	Complied. Forest land of 15 acre for 1000 trees / year for years is allocated to us where activities are taken up.
l	The Committee deliberated the submission of the project proponent after detailed deliberations, recommended to utilize 0.75 % CER as stipulated in the EC dated 02.09.2019 and other 4.25% of the project in EMP related activities mentioned in EIA/EMP report and various commitments/activities made in public consultation.	Complied as per the amendmended condition for expediature heads by EAC. Based on that projected cost associated with EMP, OCEMS and CSR activities.
m	A regular environment manager having PG qualification in environmental science / engg. to be appointed for looking after the environment management activities of the proposed plant.	Complied. Qualified evnrionment professionals are employed for environment management activities.
n	Scrubber to be provided to all emission sources.	Complied.
o	Continuous online (24X7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO, MOEFCC, CPCB & SPCB.	Complied. OCEMS is installed on outlet of treated effluent of ETP and the same is connected to MPCB & CPCB portals through OCEMS. Data is being uploaded on company website and every six monthly compliance same data is provided to RO, MOEFCC, CPCB & MPCB
p	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per The Factories Act.	Complied. Medical exmainaiton of employees and contractor persons are done every 6 months. Record is maintained.
q	The unit shall make the arrangement for protection of possible fire hazard during manufacturing process in material handling. Firefighting system shall be as per norms.	Complied. Firefighting systems like portable fire extinguishers, fire hydrants, sprinkler, smoke detectors provided as per norms.
r	The by-product which fall under hazardous waste rules, be handled as per the provision of the said rules and necessary permissions shall be obtained under the said rules.	Complied. No hazardous by-product is produced in NPK process.

	Generic Conditions	Status of compliance as on 30/09/2021
i	The PP must strictly adhere to the stipulation made by the SPCB, state Govt. & / or any other statutory authority.	Noted and being complied
ii	No further expansion or modification in the plant shall be carried out without prior approval of MOEFCC. In case of deviation or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measure required, if any.	Noted.
iii	The locations of AAQMS stations shall be decided in consultation with SPCB and it shall be ensure that at least one station each is installed in the upwind and down direction as well as where maximum ground level concentration are anticipated.	Complied. 3 continuous online AAQMS stations are installed as per AAQMS standard (180 deg interval). Online data from the same transmitted to MPCB portals. For the parameters which are not captured in the AAQMS system are tested monthly by third party lab. (Annexure-1)
iv	The NAAQES issued by the Ministry vide GSR No. 826 (E), dated 16.11.2009 shall be complied with.	Complied. 3 CAAQMS station continuously monitor 7 parameters which are uploaded on the MPCB portals. Monthly monitoring through third party MOEFCC approved lab for all the parameters including the one which are not captured in the AAQMS system. (Annexure-1)
v	The overall noise levels in and around the plant shall be kept well within the standard by providing noise control measure including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under EPA-1986, EPR-1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied. OCEM'S have provided equipment with inbuilt control on the noise like silencers, hood etc. Periodically Ambient Noise monitoring done by Third Party MOEF approved laboratory (Annexure-2)
vi	The company shall harvest rain water from the roof top of the buildings to recharge ground water, and to utilize the same for different industrial operations within the plant.	Complied. System for rain water harvesting is provided at existing WNA-4 plant.
vii	Training shall be imparted to all employees on S&H aspects of chemicals handled. Pre-employment and routine medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied. Training and refresher training are provided to employees and contractor on S&H topic including chemicals.
viii	The company shall comply with all the environmental protection measure and safeguard proposed in the documents submitted to the Ministry. All the recommendation made in the EIA / EMP in respect of environmental management, risk mitigation measure and public hearing shall be implemented.	Complied. Public hearing points compiled for 6 LMTPA MGF EC. Once the activities of expansion project of 2 LMTAP starts same will be complied with.
ix	The company shall undertake all measure for improving socio-economic conditions of the surrounding area. CSR activity shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measure shall be undertaken for overall improvement of the environment.	Complied. As a part of CSR various initiatives are taken involving villagers and other stake holders to meet socio-economic objectives. (Annexure-3)
x	A separate environment management cell equipped with full-fledged laboratory facilities shall be set up to carry out the environmental management and monitoring function.	Complied. A separate environment management cell equipped with two labs QC & ETP available
xi	The company shall earmark sufficient funds toward capital cost and recurring cost per annum to implement the conditions stipulated by the MOEFCC as well as the state govt. along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management / pollution control measure shall not be diverted for any other purpose.	Noted.
xii	A copy of the clearance shall be sent by the PP to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions / representation, if any, were received while processing the proposal.	Complied. Same is being done.
xiii	The PP shall also submit 6 monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective RO, MOEFCC, the respective zonal officer of CPCB & MPCB. A copy of EC and 6 monthly compliance status report shall be posted on the company website.	Complied. Same is being done.
xiv	The EC for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned SPCB as prescribed under EPA-1986, as amended subsequently, shall also be put on the company website along with status of compliance of EC conditions and shall also be sent to respective RO, MOEFCC by e-mail.	Complied. Same is being done.
xv	The PP shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB / committee and may also be seen at website of the Ministry at http://moef.nic.in . This shall be advertised within 7 days from the date of issue of the clearance letter, at least in two local news papers that are widely circulated in the region of which on shall be in the vernacular language of the locality concerned and copy of the same shall be forwarded to the concerned RO of the Ministry.	Complied. Same is released in local news papers.

List of Annexures Submitted	
Annexure. No.	Content
1	Ambient Air Monitoring Reports
2	Ambient Noise Monitoring Reports
3	CSR Report

Annexure 1: Ambient Air Monitoring Reports

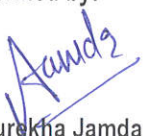
TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : Work Order no. 4800055893, Dated 24.07.2019					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited					
Date of Sampling : 12.04.2021			Analysis Date : 14.04.2021 — 17.04.2021		
Sample Received : 14.04.2021			Date of Reporting : 17.04.2021		
Sampling Location : NPK Raw Material Storage Area			Sample Code : NIL/AA/04/21/290		
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	65.5	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	32.1	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	10.6	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	15.1	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.10	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	3.2	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	44.7	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	10.3	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.31	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	60.7	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	2.7	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.25	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja Dist. Raigad 410208 Maharashtra					
Customer Reference : Work Order no. 4800055893, Dated 24.07.2019					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & : Filter Paper (2 nos), Charcoal Tube,		
Sampling Done By : Netel (India) Limited			Packing : Bladder & 50ml Plastic Bottle (4 nos)		
Date of Sampling : 12.04.2021			Analysis Date : 14.04.2021 — 17.04.2021		
Sample Received : 14.04.2021			Date of Reporting : 17.04.2021		
Sampling Location : NPK Production Unit			Sample Code : NIL/AA/04/21/291		
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	60.3	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	23.4	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	11.7	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	18.1	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.08	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	3.7	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	24.3	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	8.3	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.37	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	55.9	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	3.1	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.29	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja Dist. Raigad 410208 Maharashtra					
Customer Reference : Work Order no. 4800055893, Dated 24.07.2019					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 16.04.2021 — 19.04.2021		
Date of Sampling : 14.04.2021			Date of Reporting : 20.04.2021		
Sample Received : 16.04.2021			Sample Code : NIL/AA/04/21/292		
Sampling Location : Near CFB Cooling Tower					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	59.9	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	26.5	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	9.7	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	15.9	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.16	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	1.2	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	46.2	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	10.0	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.27	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	60.2	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	2.3	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.20	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : Work Order no. 4800055893, Dated 24.07.2019					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & : Filter Paper (2 nos), Charcoal Tube,		
Sampling Done By : Netel (India) Limited			Packing : Bladder & 50ml Plastic Bottle (4 nos)		
Date of Sampling : 14.04.2021			Analysis Date : 16.04.2021 — 19.04.2021		
Sample Received : 16.04.2021			Date of Reporting : 20.04.2021		
Sampling Location : Bear Gate No-4			Sample Code : NIL/AA/04/21/293		
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	57.7	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	20.8	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	14.8	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	21.5	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.10	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.2	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	27.3	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	9.6	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.36	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	62.2	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.6	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.34	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shradha Kere
 Technical Manager

End of Report

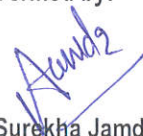
TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : Work Order no. 4800055893, Dated 24.07.2019					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & : Filter Paper (2 nos), Charcoal Tube,		
Sampling Done By : Netel (India) Limited			Packing : Bladder & 50ml Plastic Bottle (4 nos)		
Date of Sampling : 15.04.2021			Analysis Date : 17.04.2021 — 20.04.2021		
Sample Received : 17.04.2021			Date of Reporting : 21.04.2021		
Sampling Location : Gate No-2			Sample Code : NIL/AA/04/21/294		
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	71.0	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	24.7	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	11.4	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	18.5	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.08	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.0	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	37.3	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	8.2	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.25	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	23.2	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	2.8	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.23	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

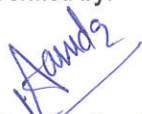
End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : Work Order no. 4800055893, Dated 24.07.2019					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 17.04.2021 — 20.04.2021		
Date of Sampling : 15.04.2021			Date of Reporting : 21.04.2021		
Sample Received : 17.04.2021			Sample Code : NIL/AA/04/21/295		
Sampling Location : New FPA Gate					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	68.6	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	26.9	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	10.6	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	15.3	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.14	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	1.7	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	41.3	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	9.3	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.15	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	57.0	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.2	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.39	µg/m ³	---	IS-5182 (Part-13)

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Verified by:



Surekha Jamdar
Dy. Technical Manager

Issued by:



Shraddha Kere
Technical Manager

End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 07.05.2021 — 10.05.2021		
Date of Sampling : 05.05.2021			Date of Reporting : 11.05.2021		
Sample Received : 07.05.2021			Sample Code : NIL/AA/05/21/056		
Sampling Location : NPK Production Unit					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	70.9	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	26.9	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	11.9	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	17.1	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.13	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	1.7	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	39.4	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	12.3	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.39	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	48.4	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.4	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.38	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

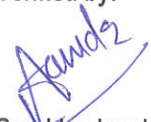
End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 05.05.2021 — 08.05.2021		
Date of Sampling : 03.05.2021			Date of Reporting : 08.05.2021		
Sample Received : 05.05.2021			Sample Code : NIL/AA/05/21/055		
Sampling Location : Plot -K-6					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	67.5	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	33.0	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	12.3	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	20.5	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.91	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.7	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	39.5	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	12.0	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.31	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	39.0	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	3.6	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.35	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shradha Kere
 Technical Manager

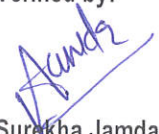
End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 07.05.2021 — 10.05.2021		
Date of Sampling : 05.05.2021			Date of Reporting : 11.05.2021		
Sample Received : 07.05.2021			Sample Code : NIL/AA/05/21/057		
Sampling Location : NPK Raw Material Storage Area					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	65.3	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	35.2	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	12.9	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	19.6	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.02	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	3.5	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	43.2	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	8.3	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.39	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	31.8	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.3	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.20	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

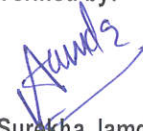
End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 08.05.2021 — 11.05.2021		
Date of Sampling : 06.05.2021			Date of Reporting : 12.05.2021		
Sample Received : 08.05.2021			Sample Code : NIL/AA/05/21/062		
Sampling Location : Near Gate No-4					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	62.5	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	23.0	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	10.8	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	16.7	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.15	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	3.4	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	49.9	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	12.8	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.16	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	37.2	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	2.4	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.18	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shradha Kere
 Technical Manager

End of Report

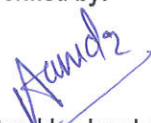
TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 08.05.2021 — 11.05.2021		
Date of Sampling : 06.05.2021			Date of Reporting : 12.05.2021		
Sample Received : 08.05.2021			Sample Code : NIL/AA/05/21/063		
Sampling Location : Near CFB Cooling Tower					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	60.8	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	33.0	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	14.0	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	20.3	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.89	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.2	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	36.1	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	13.8	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.38	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	48.5	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.9	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.25	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 10.05.2021 — 13.05.2021		
Date of Sampling : 07.05.2021			Date of Reporting : 14.05.2021		
Sample Received : 10.05.2021			Sample Code : NIL/AA/05/21/075		
Sampling Location : Near Gate No-2					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	59.1	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	32.6	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	14.0	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	22.0	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.18	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	1.9	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	41.8	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	9.4	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.17	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	50.5	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	3.6	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.35	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 09.06.2021 — 12.06.2021		
Date of Sampling : 07.06.2021			Date of Reporting : 12.06.2021		
Sample Received : 09.06.2021			Sample Code : NIL/AA/06/21/133		
Sampling Location : Near Gate No-2					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	50.2	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	21.3	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	10.2	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	16.9	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.63	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.1	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	30.0	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	6.5	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.12	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	48.6	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.1	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.31	µg/m ³	---	IS-5182 (Part-13)

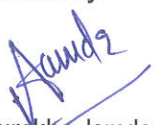
Note : 1. * Laboratory SOP, based on CPCB Guidelines Volumes I & II

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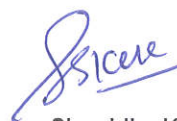
4. The complaint register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by:



Surekha Jamdar
Dy. Technical Manager

Issued by:



Shraddha Kere
Technical Manager

End of Report


TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 09.06.2021 — 12.06.2021		
Date of Sampling : 07.06.2021			Date of Reporting : 12.06.2021		
Sample Received : 09.06.2021			Sample Code : NIL/AA/06/21/132		
Sampling Location : Near IPA Gate-4					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	52.0	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	26.9	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	11.2	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	16.7	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.65	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.1	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	29.0	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	10.8	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.27	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	24.9	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.1	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.24	µg/m ³	---	IS-5182 (Part-13)

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 10.06.2021 — 14.06.2021		
Date of Sampling : 08.06.2021			Date of Reporting : 15.06.2021		
Sample Received : 10.06.2021			Sample Code : NIL/AA/06/21/134		
Sampling Location : Near CFB Cooling Tower					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	49.0	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	25.6	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	8.4	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	14.1	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.67	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.4	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	23.5	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	8.6	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.19	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	25.2	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	2.0	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.31	µg/m ³	---	IS-5182 (Part-13)

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Surekha Jamdar
Dy. Technical Manager

Issued by:



Shraddha Kere
Technical Manager

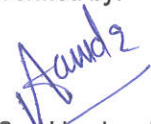
End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 10.06.2021 — 14.06.2021		
Date of Sampling : 08.06.2021			Date of Reporting : 15.06.2021		
Sample Received : 10.06.2021			Sample Code : NIL/AA/06/21/135		
Sampling Location : NPK Raw Material Storage Area					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	53.1	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	19.5	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	9.2	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	15.1	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.64	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.3	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	35.0	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	7.1	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.26	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	29.1	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.5	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.29	µg/m ³	---	IS-5182 (Part-13)

- Note :** 1. * Laboratory SOP, based on CPCB Guidelines Volumes I & II
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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 11.06.2021 — 14.06.2021		
Date of Sampling : 09.06.2021			Date of Reporting : 15.06.2021		
Sample Received : 11.06.2021			Sample Code : NIL/AA/06/21/136		
Sampling Location : NPK Production Unit					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	57.9	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	21.3	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	10.6	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	15.5	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.76	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.7	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	23.2	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	10.1	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.11	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	36.3	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.8	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.14	µg/m ³	---	IS-5182 (Part-13)

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Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

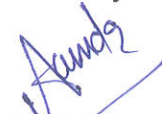
End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 11.06.2021 — 14.06.2021		
Date of Sampling : 09.06.2021			Date of Reporting : 15.06.2021		
Sample Received : 11.06.2021			Sample Code : NIL/AA/06/21/137		
Sampling Location : Near IPA Gate					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	54.5	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	22.1	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	10.9	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	18.0	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.60	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	1.9	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	35.1	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	10.2	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.16	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	23.6	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.9	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.27	µg/m ³	---	IS-5182 (Part-13)

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Verified by:



Surekha Jamdar
Dy. Technical Manager

Issued by:



Shraddha Kere
Technical Manager

End of Report

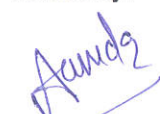
TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited					
Date of Sampling : 28.07.2021			Analysis Date : 30.07.2021 — 02.08.2021		
Sample Received : 30.07.2021			Date of Reporting : 03.08.2021		
Sampling Location : NPK Production Unit			Sample Code : NIL/AA/07/21/290		
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	54.1	µg/m³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	22.6	µg/m³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	9.6	µg/m³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	15.7	µg/m³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.74	mg/m³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	3.5	µg/m³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	21.1	µg/m³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	13.0	µg/m³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.27	µg/m³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m³	6	
12	Nickel (Ni)	BDL	ng/m³	20	
13	Hydrocarbon (HC)	42.8	µg/m³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m³	---	By Calculation
15	Acid Mist	3.0	µg/m³	---	ICMA Manual (Part 2)
16	Fluoride	0.19	µg/m³	---	IS-5182 (Part-13)

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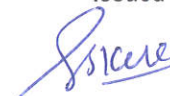
Verified by:



Surekha Jamdar

Dy. Technical Manager

Issued by:



Shraddha Kere

Technical Manager

End of Report

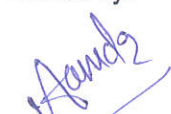
TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 30.07.2021 — 02.08.2021		
Date of Sampling : 28.07.2021			Date of Reporting : 03.08.2021		
Sample Received : 30.07.2021			Sample Code : NIL/AA/07/21/291		
Sampling Location : NPK Raw Material Storage Area					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	49.4	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	19.1	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	11.0	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	17.1	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.07	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	1.2	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	25.6	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	12.7	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.23	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	56.5	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	2.5	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.37	µg/m ³	---	IS-5182 (Part-13)

Note : 1. * Laboratory SOP, based on CPCB Guidelines Volumns I & II

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Verified by:



Surekha Jamdar
Dy. Technical Manager

Issued by:



Shraddha Kere
Technical Manager

End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 31.07.2021 — 03.08.2021		
Date of Sampling : 29.07.2021			Date of Reporting : 04.08.2021		
Sample Received : 31.07.2021			Sample Code : NIL/AA/07/21/292		
Sampling Location : Near IPA Gate					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	50.1	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	20.8	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	12.9	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	19.4	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	1.16	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	1.7	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	46.7	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	10.4	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.35	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	64.4	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.6	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.37	µg/m ³	---	IS-5182 (Part-13)

Note : 1. * Laboratory SOP, based on CPCB Guidelines Volumns I & II

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

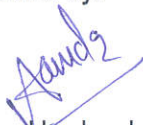
TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 31.07.2021 — 03.08.2021		
Date of Sampling : 29.07.2021			Date of Reporting : 04.08.2021		
Sample Received : 31.07.2021			Sample Code : NIL/AA/07/21/293		
Sampling Location : Near Gate No-2					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	54.8	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	16.9	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	14.7	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	22.6	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.69	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.9	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	38.2	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	8.8	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.37	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	60.5	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	3.4	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.29	µg/m ³	---	IS-5182 (Part-13)

Note : 1. * Laboratory SOP, based on CPCB Guidelines Volumns I & II

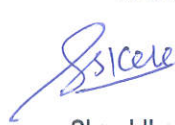
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Verified by:



Surekha Jamdar
Dy. Technical Manager

Issued by:



Shraddha Kere
Technical Manager

End of Report

TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 02.08.2021 — 05.08.2021		
Date of Sampling : 30.07.2021			Date of Reporting : 06.08.2021		
Sample Received : 02.08.2021			Sample Code : NIL/AA/07/21/321		
Sampling Location : Near IPA Gate-4					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	50.2	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	16.5	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	10.2	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	14.7	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.82	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	1.3	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	48.8	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	10.7	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.35	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	50.7	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	1.9	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.41	µg/m ³	---	IS-5182 (Part-13)

Note : 1. * Laboratory SOP, based on CPCB Guidelines Volumns I & II

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

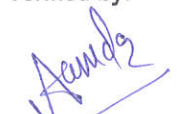
TEST REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
MoEFCC Validity : 16 October 2024			NABL Validity : 19 March 2022		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)		
Sampling Done By : Netel (India) Limited			Analysis Date : 02.08.2021 — 05.08.2021		
Date of Sampling : 30.07.2021			Date of Reporting : 06.08.2021		
Sample Received : 02.08.2021			Sample Code : NIL/AA/07/21/322		
Sampling Location : Near CFB Cooling Tower					
Sr. No.	Test Parameter	Results	Unit	CPCB Limit	Method
1	Particulate Matter (PM ₁₀)	54.5	µg/m ³	100	IS-5182 (Part-23)
2	Particulate Matter (PM _{2.5})	21.7	µg/m ³	60	NIL/AIR/SOP/03*
3	Sulphur Dioxide (SO ₂)	12.0	µg/m ³	80	IS-5182 (Part-02)
4	Oxides of Nitrogen (NO _x)	18.7	µg/m ³	80	IS-5182 (Part-06)
5	Carbon Monoxide (CO)	0.88	mg/m ³	2 for 8 hrs.	IS-5182 (Part-10)
6	Benzene (C ₆ H ₆)	2.0	µg/m ³	5	IS-5182 (Part-11)
7	Ammonia (NH ₃)	31.4	µg/m ³	400	ISC Part-II (Method-401)
8	Ozone (O ₃)	13.9	µg/m ³	100 for 8 hrs.	IS-5182 (Part-09)
9	Benzo - a - Pyrene (BaP)	BDL	ng/m ³	1	IS-5182 (Part-12)
10	Lead (Pb)	0.23	µg/m ³	1	APHA - Air 3 rd Edition (Method 822)
11	Arsenic (As)	BDL	ng/m ³	6	
12	Nickel (Ni)	BDL	ng/m ³	20	
13	Hydrocarbon (HC)	34.7	µg/m ³	---	IS-5182 (Part-11)
14	Sulfur Trioxide (SO ₃)	BDL	µg/m ³	---	By Calculation
15	Acid Mist	2.3	µg/m ³	---	ICMA Manual (Part 2)
16	Fluoride	0.30	µg/m ³	---	IS-5182 (Part-13)

Note : 1. * Laboratory SOP, based on CPCB Guidelines Volumes I & II

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- This Test Report refers only to the sample tested.
- The complaint register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by:



Surekha Jamdar
Dy. Technical Manager

Issued by:



Shraddha Kere
Technical Manager

End of Report



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

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

TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

Test Certificate No.	GA/21/08/342	T. C. Date	08/09/2021
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date .	2100009371 / 24-08-21	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	01/09/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	02/09/2021 To 08/09/2021

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Main Gate				
Date of Sampling	31/08/2021				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:30	24	22	30	39	67

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	62.68	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	30.11	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	31.83	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	35.97	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.25	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.21	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	8.58	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	10.83	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	6.10	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

CHECKED BY

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

TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

Test Certificate No.	GA/21/08/343	T. C. Date	08/09/2021
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date .	2100009371 / 24-08-21	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	01/09/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	02/09/2021 To 08/09/2021

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near NPK Plant Area				
Date of Sampling	31/08/2021				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
12:35	24	22	30	39	67

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.58	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	31.61	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	33.54	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.00	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.19	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.21	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	6.86	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	8.33	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	5.90	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

Test Certificate No.	GA/21/08/344	T. C. Date	08/09/2021
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date .	2100009371 / 24-08-21	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	01/09/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	02/09/2021 To 08/09/2021

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near ETP RO Plant				
Date of Sampling	31/08/2021				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
12:15	24	22	30	39	67

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.16	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	29.65	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	34.81	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	37.23	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.17	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.16	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	7.49	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	9.58	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	5.46	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

Test Certificate No.	GA/21/08/345	T. C. Date	08/09/2021
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date .	2100009371 / 24-08-21	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	01/09/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	02/09/2021 To 08/09/2021

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Coal Fire Boiler Near Cooling Tower				
Date of Sampling	31/08/2021				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
12:55	24	22	30	39	67

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	64.21	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.59	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	30.75	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	35.21	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.23	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.24	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	6.57	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	8.13	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	7.90	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

*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/21/09/458	T. C. Date	05/10/2021
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date .	2100009371 / 24-08-21	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	28/09/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	29/09/2021 To 05/10/2021

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Main Gate				
Date of Sampling	28/09/2021				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
12:10	24	21	29	38	77

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	61.56	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	32.73	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	31.54	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	33.65	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.20	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.08	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	7.43	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	7.08	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	4.36	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

Test Certificate No.	GA/21/09/459	T. C. Date	05/10/2021
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date .	2100009371 / 24-08-21	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	28/09/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	29/09/2021 To 05/10/2021

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near NPK Plant Area				
Date of Sampling	28/09/2021				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
12:40	24	21	29	38	77

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	55.42	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	26.89	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	35.21	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	38.43	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.23	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.12	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	9.32	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	10.00	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	8.40	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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

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/21/09/460	T. C. Date	05/10/2021
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date .	2100009371 / 24-08-21	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	28/09/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	29/09/2021 To 05/10/2021

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near ETP RO Plant				
Date of Sampling	28/09/2021				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
12:25	24	21	29	38	77

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	59.9	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	28.1	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	29.6	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	34.9	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.15	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.31	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	8.58	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	13.75	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	7.32	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

CHECKED BY

Note :

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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) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

Test Certificate No.	GA/21/09/461	T. C. Date	05/10/2021
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date .	2100009371 / 24-08-21	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	28/09/2021
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	29/09/2021 To 05/10/2021

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Coal Fire Boiler Near Cooling Tower				
Date of Sampling	28/09/2021				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
13:00	24	21	29	38	77

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.15	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	32.44	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	33.48	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	35.01	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.18	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.10	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	6.29	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	7.92	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	6.45	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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

End

For GADARK LAB PVT. LTD.

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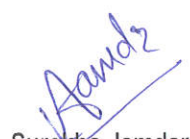
Annexure 2: Ambient Noise Monitoring Reports

NOISE LEVEL MONITORING REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
Instrument Model : Lutron SL-4033-SD (Class 1)			Instrument Serial No. : Q640774		
Date of Sampling : 14.04.2021			Date of Calibration : 25.09.2020		
Date of Reporting : 17.04.2021			Next Calibration Due : 24.09.2021		
Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	66.6	75	65.5	70
2	NPK Gate No. 4	53.6	75	53.7	70
3	NPK Raw Material Storage Area	70.1	75	68.4	70
4	NPK Production Unit	54.2	75	52.7	70
5	Near IPA Gate	65.3	75	65.1	70
6	Near CFB Cooling Tower	73.8	75	73.7	70
7	Ammonia Unloading	59.3	75	59.4	70
8	K-6 Plot (Near Main Gate)	69.0	75	68.7	70

Note :

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3. The Complaint Register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by:


Surekha Jamdar
Dy. Technical Manager

Issued by:


Shraddha Kere
Technical Manager

End of Report


NOISE LEVEL MONITORING REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
Instrument Model : Lutron SL-4033-SD (Class 1)			Instrument Serial No.: Q640774		
Date of Sampling : 05.05.2021			Date of Calibration : 25.09.2020		
Date of Reporting : 08.05.2021			Next Calibration Due : 24.09.2021		
Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	66.0	75	66.4	70
2	NPK Gate No. 4	56.2	75	54.4	70
3	NPK Raw Material Storage Area	69.9	75	68.8	70
4	NPK Production Unit	59.2	75	57.8	70
5	Near IPA Gate	66.1	75	65.4	70
6	Near CFB Cooling Tower	69.5	75	67.7	70
7	Ammonia Unloading	60.9	75	59.9	70
8	K-6 Plot (Near Main Gate)	70.9	75	69.8	70

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

NOISE LEVEL MONITORING REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
Instrument Model : Lutron SL-4033-SD (Class 1)			Instrument Serial No. : Q640774		
Date of Sampling : 09.06.2021			Date of Calibration : 25.09.2020		
Date of Reporting : 12.06.2021			Next Calibration Due : 24.09.2021		
Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	68.3	75	67.0	70
2	NPK Gate No. 4	53.4	75	53.0	70
3	NPK Raw Material Storage Area	69.0	75	67.3	70
4	NPK Production Unit	56.2	75	54.7	70
5	Near IPA Gate	65.9	75	65.2	70
6	Near CFB Cooling Tower	72.1	75	65.8	70
7	Ammonia Unloading	58.7	75	58.7	70
8	K-6 Plot (Near Main Gate)	69.0	75	67.3	70

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Verified by:


Surekha Jamdar
 Dy. Technical Manager

Issued by:


Shraddha Kere
 Technical Manager

End of Report

NOISE LEVEL MONITORING REPORT

Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Reference : P.O. no. 1100005118, Dated 07.01.2021					
Instrument Model : Lutron SL-4033-SD (Class 1)			Instrument Serial No.: Q640774		
Date of Sampling : 30.07.2021			Date of Calibration : 25.09.2020		
Date of Reporting : 02.08.2021			Next Calibration Due : 24.09.2021		
Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	67.0	75	65.7	70
2	NPK Gate No. 4	53.0	75	51.6	70
3	NPK Raw Material Storage Area	69.3	75	68.8	70
4	NPK Production Unit	59.9	75	60.4	70
5	Near IPA Gate	64.7	75	63.6	70
6	Near CFB Cooling Tower	69.6	75	64.9	70
7	Ammonia Unloading	60.7	75	60.1	70
8	K-6 Plot (Near Main Gate)	67.8	75	67.6	70

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Verified by:


Surekha Jamdar
Dy. Technical Manager

Issued by:


Shraddha Kere
Technical Manager

End of Report



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

TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/04

Test Certificate No.	GA/21/08/346	T. C. Date	08/09/2021
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date .	2100009371 / 24-08-21	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	31/08/2021
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 11:35 HRS.	NIGHT TIME 23:00 HRS.
01	Near Main Gate Area	64.4	58.2
02	Near AN ANP Gate Area	60.5	57.7
03	Near RO / ETP Area	71.2	68.4
04	Near Ammonia Gate Area	65.3	59.3
05	ENA III CT Area	74.4	69.2
06	Near NPK Bagging South Side Area	61.2	56.5
07	Near NPK Gate Area	62.7	56.8
08	C.F.B. CT Area	74.0	68.7
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

Blute

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

[Signature]

CHECKED BY

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TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/04

Test Certificate No.	GA/21/09/462	T. C. Date	05/10/2021
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date .	2100009371 / 24-08-21	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	28/09/2021
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 12:15 HRS.	NIGHT TIME 22:45 HRS.
01	Near Main Gate Area	62.2	56.9
02	Near AN ANP Gate Area	61.1	58.0
03	Near RO / ETP Area	70.6	65.9
04	Near Ammonia Gate Area	64.8	58.4
05	ENA III CT Area	73.8	67.3
06	Near NPK Bagging South Side Area	60.9	57.4
07	Near NPK Gate Area	63.0	56.5
08	C.F.B. CT Area	73.6	67.6
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
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Annexure 3: CSR Report



DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED



SMARTCHEM
TECHNOLOGIES
LIMITED

Deepak Fertilizers and Petrochemicals Corporation Ltd, Smartchem Technologies Limited Taloja CSR Report 2021-2022 Half Yearly

VISION

To act as an effective catalyst in Deepak Fertilisers And Petrochemicals Corporation Limited (DFPCL) and its 100% subsidiary company Smartchem Technologies Limited (STL) geographies of operations in creating a self-reliant and respectable society with secure and sustained means to livelihood, through employable skills and resource support and additionally to promote and support the rich cultural heritage of India.

MISSION

The mission for the identified society at large, in geographies of DFPCL's and STL operations and influence, shall be:

- To identify the potential of and gaps in the economic and social support systems, so as to help develop a sustained, self-reliant society with special emphasis on the youth, women & marginal farmers
- To undertake vocational skill and soft skill development initiatives enabling sustained and respectable employment opportunities for leading a self-reliant life
- To facilitate income generation programs of individuals / groups through alignment of skill development with self-employment opportunities
- To provide marketing and financial support to help enhance sustained income generation initiatives
- To generate community development activities and promote self-help groups so as to improve the living conditions of people through peoples' initiatives
- To initiate activities and develop government / institutional linkages in community preventive / corrective health facilities where needed
- To undertake farmer skill building, soil / nutrient / agri-inputs / produce enhancement initiatives
- To support performing arts among local communities for promotion of talent & cultural richness of the society
- To provide a much-needed crisis support for unexpected calamities and disasters
- To co-ordinate / conduct any other CSR initiatives which are consistent with the provisions of Section 135 of the Companies Act, 2013 or other provisions as may be prescribed by the government from time to time.

Introduction:

As a true corporate citizen, DFPCL and STL are committed to social thought and action and is resolute in its dedication to serve the society they live in. The Companies have been engaged in community work through **Ishanya Foundation** at Taloja and Pune in Maharashtra.

The CSR Arm of Deepak Fertilisers and Petrochemicals Corporation Limited, Pune (DFPCL) and Smartchem Technologies Limited (STL), Ishanya Foundation (ISFON) is a registered NGO under the provision of the Bombay Public Trust Act 1950.

DFPCL and STL have always considered its surrounding communities as an important group of stakeholders in its business and is committed to contribute towards improving their quality of life

through various measures. Projects being implemented in **47 villages and 19 hamlets and urban area of Pune.**

DFPCL and STL are implementing need-based activities in more than 50 hamlets and villages of New Panvel and urban area of Pune. **Under CSR initiatives projects and activities are being implemented:**

Wadi Development

- Horticulture Plantation (Mango)
- Promotion of Vegetables crops
- Promotion of Floriculture
- Health
- Farmers Capacity Building

Dairy Development

- Cattle Induction
- Door-step health services for cattle
- Artificial Insemination
- Fodder Development
- Vaccination
- Farmers Capacity Building

Vocational Skill Development Programme

- Diploma in ophthalmology
- Tailoring

Health and Education

- Mobile Clinic
- Cataract Operations
- Activities During COVID19

Livelihood Enhancement Through Entrepreneurship Development (LEED)

- Support for Tools and Equipment for Entrepreneurship

Wadi Project

The overall objective of the project is to improve the standard and quality of living of the poor rural families through a holistic and enabling project approach. This can be achieved by helping the tribal and other families to develop productive assets such as a 'Wadi' (integrated farming system comprising of horticulture, agriculture) to enable them to earn substantial and sustainable livelihood over a longterm period. Simultaneously, there is need for a thrust to tackle the root causes of poor health and improve the quality of living, particularly of women. The proposed project thus primarily aims at the following:

- To provide secondary sustainable source of income
- To increase the asset base of the tribals & other
- To empower of women through economic and social development
- To improve the health status of the community

- To improve environment through carbon fixation **Project Activities:**

Under wadi livelihood project each participant family takes up intensive land development and plantation work on half acre (0.2 ha) of wasteland or marginal land, to convert this into a productive forestry plantation and orchard (WADI).

Objectives are highlighted below:

- Mobilisation of community through project promotional meetings and exposure. ○ Selection of beneficiaries and land
- Plantation of fruit and forestry trees.
- Development of eroded wasteland through soil and water conservation.
- Water resource development and water conveyance
- Cultivation of suitable improved intercrops both for food and for cash incomes wherever possible during the initial stage
- Capacity building of staff and beneficiaries
- Development of Model Plots: The objective of these demonstration / model plots will be to create awareness in farmers about cost effective farming techniques, new introduction of crops, diversified farming techniques etc.
- Community Health Activities:
 - Eye Check-up Camps and Cataract Operation
 - Seasonal and perennial Kitchen Garden
 - General Health Check-up camps for Women and children ○ Women

Empowerment:

- Training to existing women's groups
- Wadi on women's name
- Exposure **Major Achievements:**

Sr. No.	Major Activity	Achievement
A	Horticulture Plantation	
1	Aftercare activities: Weeding, Basin preparation, Staking, Plant sanitation, Pruning, irrigation, Vegetable seed demand.	189
2	Gap Filling of Mango in Batch-I to VII	295
3	Plant Protection (Batch IV to VII)	221
4	Plant Nutrition (Batch IV to VII)	221
5	Survival of Wadi Planation (%)	380
B	Soil Conservation (Batch VII)	41
C	Water Resource Development & Conveyance B – VII	33
D	Vegetable Cultivation (Batch V to VII)	199
E	Development of Model /Trial Plot	
01	Ginger Plots	02
02	Turmeric Plot	03
03	Vegetable Nursery in tray / bag	05
04	Mango graft nursery	08
F	Water Resource Development, Conveyance & Effective Water Usage	10
G	Capacity Building	
1	Village Meetings	64
2	Demonstration of Plant Nutrition application and after care of Mango Plants	01
3	Training and Demonstration of mango Grafting	01
4	SMS / What's App group mgs, video	89869



Distribution of mango graft



Distribution of Plant Nutrients



Distribution of Plant Protection



Distribution of Vegetable seed



Demonstration of Plant Nutrition application and after care of Mango Plants



Distribution of WRD material (HDPE Pipe) under Wadi Project Aspirates



Support for Individual Lifting Devices for Irrigation of Vegetable cultivation under Wadi Project



Project: Wadi Project _ Vegetable Plot

Year of Participation: 2018-19

Name of Aspirant: Mrs. Kajal and Mr. Narayan B Ghute
Village : Gadeshwar, Taluka: Panvel, District: Raigad

Family Profile : Mr. Narayan and Savitri have One son Suraj studying in 6th class. Mr. Narayan is working in the farms and work as labor on daily wages in the Panvel. After support given under Wadi project for Vegetable seed and training from Ishanya Foundation. Mr. Narayan has started vegetable cultivation and started selling at the Panvel Local Market.

Land: 1 Acer



Vegetable crop	Plantation season	Cultivation Area @ R	Average Yield in Kg	Average Income Rs	Production
Sponge Gourd	Monsoon	15	960	24300	Harvesting is in progress

Dairy Development Project

Dairy is an important subsidiary source of income for small/marginal and agricultural labourers in rural area. The manure from animals provides good source of organic matter to improve soil fertility and crop yield. The surplus fodder and agricultural by products are gainfully utilized for feeding the animals. Since agriculture is mostly seasonal, there is possibility of finding employment throughout year for many women through dairy farming. Thus, dairy also provides employment throughout the year. The main beneficiaries of project are small/marginal farmers and landless labours. The aspirant can earn a gross surplus of about 35000 per year from a unit **Major Achievements:**

Sr. N.	Major Activity	Achievement
A	Support for Cattle Induction	
	Cattle Induction	
1	Training of aspirant's new batches	01
2	Purchase of Cows	04
3	Female Calves Growth Monitoring	01
B	Artificial Insemination Centre	
1	Artificial Insemination	400
2	Pregnancy Diagnosis (PD) (Jan-21 to June-21)	412
3	Calving	136
C	Vaccination	
1	Vaccination Theileriosis	70



Vocational Skill Development:

Skill Based Vocational Training Programs prepares aspirants to work in various fields of trade. It provides equal opportunity for employment and livelihood. After completion of course, the aspirants are supported with employment to lead a sustainable livelihood. VSDHE uses various forms of formal, non-formal and informal learning which help in achieving social equality, inclusion and sustainable development. Some of the highlights of the program include:

- Life Skills and Values
- Spoken English
- Exposure visits



- One-on-One Mentoring
- Support for Placements
- Soft Skills Training Programs
- Practical Oriented Training
- Internships (based on each course)
- Pick-up and Drop Facility
- Digital Literacy and Financial Literacy
- Placement Tracking

Major Achievements:

Sr. No.	Activity	Achievement
A	Tailoring Course	
1	Total Aspirants Covered	18
2	Training of Sewing Machine Repapering and maintenance	01
3	Certificate Distribution Programme of Tailoring Class (Batch 2020-21)	01

Aarogyam and Dnyanam project:

DFPCL is consistently working for improvement of health by providing doorstep health services through health check-up camp and as education initiative is a program that support students from standard 1 to 10 with tuition in all the subjects so that the students are encouraged to study and not give up their studies half way. Under the initiative special focus is given on difficult subjects like Mathematics, English and Science.



Sr. N.	Major Activity	Achievement
Aarogyam Project		
A	Mobile Clinic <ul style="list-style-type: none"> • Doorstep Health Services with free medicine • Health Awareness • Referral Services 	6197
B	Cataract Surgery	21
C	Activities During Outbreak of Pandemic COCID-19	
01	Donation of Ambulance	03 nos.
02	Installation of PSA Medical Oxygen Plant	03 nos.
03	Donation of Oxygen Concentrator	25 nos.
04	Distribution of COVID Kit at Rahiyad Village Dehej	500 Families
05	Distribution of COVID Kit at Nearby Villages of Taloja Plant	2800 Families
06	Distribution of 1000 lit hand to various Govt. Offices.	110lit
Gyanam Project		
2	Support for Science Lab. Equipment, Printer to Chindran High School.	01
3	Digital Class	10

Home Environment Clearance Only CRZ Clearance Forest Clearance Wildlife Reference

Please do not enter any special charater like < > : " / \ | ? * etc. in the form fields



Form for Uploading Compliance Report

Proposal No : IA/MH/IND3/209564/2021

Proposal Name :

Expansion of Fertiliser
plant of Deepak
Fertilisers and

Category : Industrial Projects - 3

MoEF File No. :

11011/167/2016-IA II (1)

Compliance Letter/Report

Year of Compliance : -All Years- ▼

Date of Compliance * : Select ▼

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For any technical support, please contact EPCID, NIC, New Delhi, monitoring-
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