

DFPCL-K1/EHS/Env/2023-24/02

Date: 01-June 2023

**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 Iso Propyl Alcohol vide file no. (J-11011/218/2004-IA II(I) dt 24.02.2006).

Sub: Half yearly Environmental Clearance Compliance report.

Dear Sir,

Please find enclosed the half yeraly EC compliance report of **Iso Propyl Alcohol plant** for the period of **OCT-2022 to March -2023**.

This is for your information and records please.

Thanking you,

Yours faithfully,

For, DEEPAK FERTILISERS AND PETROCHEMICALS CORP. 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	Iso Propyl Alcohol (IPA 70000 MTA) Project at MIDC, Taloja, Maharashtra by Deepak Fertilisers & Petrochemicals Corporation Limited
3	Clearance letter (s) /OM No. and Date	EC granted for Iso Propyl Alcohol vide file no. (J-11011/218/2004-IA II(I) dt 24.02.2006)
4	Location	
	a. District (S)	Raigad
	b. State (S)	Maharashtra
	c. Latitude/longitude	19°04'11.3"N/73°08'04.1"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 Deepak Fertilisers & Petrochemicals Corporation Ltd. 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
	b. of the environmental management plans	Annexure-B
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	153.7 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.	No expenditure during current financial year
	f. Actual expenditure incurred on the environmental management plans so far	For details see 9 b)
10	Forest land requirement	
	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	
	a. Date of commencement (Actual and/or planned)	Year 2005
	b. Date of completion (Actual and/of planned)	Year 2006
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

Executive Summary

1.0 Introduction

The Deepak Group of industries one of the major groups in Maharashtra state is proposing to set up India's first plant for manufacturing Isopropyl Alcohol (IPA), in technological collaboration with US-based Equistar-Lyondell. The facility will have a capacity to produce 70,000 tonnes of IPA at its Taloja unit in Raigad District of Maharashtra with a capital outlay of Rs 153.7 crores, meeting India's major requirement of the chemical. IPA is a key ingredient in sectors such as pharma, agrochemicals, organic chemicals, imaging (printing & inks), health care & paint industry.

DFPCL's business can be broadly categorized into the following divisions

- ❖ Industrial Chemicals
- ❖ Ammonium Nitrate
- ❖ Agri-Inputs – Marketing
- ❖ Crop Science Division

1.1 Need For The Project

- ❖ The IPA market in the country has immense potential and the consumption was estimated to be 62,000 MTPA in year 2002 – 2003 and the estimated consumption in the year 2005 would be 72,500 MTPA.
- ❖ IPA is extensively used by pharmaceutical companies, agrochemicals industry and also in manufacturing of inks and other components required for printing.
- ❖ The company will target the huge IPA market in India, which is at present 100 per cent dependent on imports as there are no domestic manufacturers.
- ❖ IPA consumption in the country is growing by around seven percent annually.

1.2 Need For EIA Studies

In all manufacturing industries, the plant activities must co-exist satisfactorily with its surrounding environment so as to reduce the environmental impact caused due to these activities. In order to assess the likely impacts arising out of the proposed

project on the surrounding environment and evaluating means of alleviating the likely negative impacts, if any, from the proposed project, Rapid Environmental Impact Assessment (REIA) studies carried out for various environmental components which are likely to be affected.

The REIA Studies for the proposed IPA manufacturing project deals with detailed studies for various environmental components viz. Air, noise, water, land, biological and socio-economic environment.

1.3 The Surroundings

The industrial area is well connected to the state and national road network. The state highway SH-1 connecting Pune and Thane passes from a distance of 4.0 km from the SW of the site. There is a district approach road connecting the industrial area to the state highway.

The nearest railway station Navada (on Panvel – Diya line) is about 3.5 km west of the site.

Salient Features Of The Proposed Isopropyl Alcohol Plant at Taloja

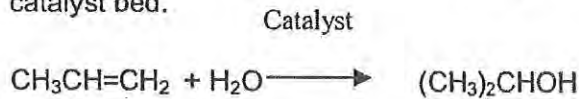
State	Maharashtra
Village, District	Taloja A. V., Raigad
Nature of the Area	Notified Industrial Area
Mean Maximum Temperature	34° C (Summer)
Mean Minimum Temperature	21.8° C (Winter)
Relative Humidity	64.5 %
Annual Rainfall	1800 mm
Nearest Highway	SH-1
Nearest Port	Mumbai Port
Nearest Railway Station	Navada
Nearest Village	Devichapada, Tondre
Nearest City	Panvel
Nearest Air port	Sahara Air Port, Mumbai
Nearest River	Kasade River
Nearest Forest	No Forest Area
Historical & Sensitive Places	Nil

2.0 Process Description

The process route consists of the following steps to produce Iso Propyl Alcohol (IPA):

- ❖ C3 Splitter Section
- ❖ Reaction And Flash Section
- ❖ Distillation Section
- ❖ Molecular Sieve Section

Iso Propyl Alcohol (IPA) is produced by direct hydration of propylene across a catalyst bed.



2.1 Resources required

The major raw material required is propylene (refined grade), for which the plant authorities have a tie up with Bharat Petroleum Corporation Ltd. (BPCL) for long term exclusive supply for the proposed project. The other raw materials required is phosphoric acid, silica gel, etc are procured from the local market/suppliers.

The total water required for the proposed IPA plant is around 2785.2 m³/day. The water required is met from MIDC water supply. The total power required for the proposed project is around 3626 kW, this met from captive power plant 2 x 4.5 MW of the parent organisation which is having a spare capacity of 4.5 MW. The major utilities required for the proposed project are boiler, Cooling tower, DM plant, etc.

The parent organization is having land of 30.3492 hectares in the MIDC industrial area of Taloja part of the land in the existing unit will be used for proposed plant. As per the MIDC norms the ratio of total plinth area to the net plot area should not be more than 0.35 After establishment of the proposed project the ratio of the total plinth area to the net plot area would be 0.293, which is well within the MIDC norms.

3.0 Baseline

Baseline environmental status in and around proposed project depicts the existing environmental conditions of air, noise, water, soil, biological and socio-economic environment.

The 24 hourly average windrose for the entire study period reveals that winds were blowing from all directions. The most dominant direction observed was NE followed by NNE, ENE and N. The maximum, minimum and mean temperature observed to be 41°C, 19.1°C and 29.5°C respectively. The mean relative humidity observed during the study period is 64.5%.

3.1 Ambient Air Quality

A total of 9 ambient air quality monitoring stations were selected. Maximum, Minimum, Average and Percentile values have been computed from the raw data collected.

- The 98th percentile of SPM levels are in the range of 58.2 TO 149.6 µg/m³
- The 98th percentile of RPM levels are in the range of 20.2 to 50.1 µg/m³
- The 98th percentile of SO₂ levels were in the range of 7.5 to 11.3 µg/m³
- The 98th percentile of NO_x levels were in the range of 12.8 to 19.3 µg/m³

The 24 hourly average values of SPM, RPM, SO₂ & NO_x were compared with the national ambient air quality standards and it was found that all the sampling stations recorded values lower than the applicable limit for residential areas.

3.2 Noise Environment

Assessment of equivalent day and night noise levels at 11 locations in and around the plant site reveal that noise levels are ranging from 37.5 to 57.2dB(A), which can be taken as the existing baseline status. The day equivalent values calculated considering the noise levels recorded from 6 AM to 9PM. The values were found to be ranging between 49.23 dB (A) at Valap to 53.71 dB (A) at Plant site 1.

Similarly night equivalent noise levels were calculated using the noise levels recorded from 10 PM to 5 AM. These values are critical since they affect the sleep in the residential and sensitive areas. The night equivalent values were found to be ranging between 41.76 dB (A) at Ghot to 44.27dB (A) at Khanav. The noise equivalents observed were within the standards as per CPCB for Residential areas and commercial areas respectively.

3.3 Water Quality

A total of nine water samples (two surface water and seven ground water samples) have been collected from the study area.

The analytical results of the samples collected from the study area were compared with the drinking water standards IS 10500 to check for the portability.

Ground water

From the analytical results of ground water we can see that the pH of the water is ranging from 7.06 to 8.5 at valvali. The pH limit fixed for drinking water is 6.5 to 8.5 beyond this range the water will affect the mucus membrane and water supply system, in the study area the pH in the samples collected were well within the limits.

The Dissolved solids in the ground water samples are ranging from 210 at MIDC area to 560 mg/l at Pali. Except for the water sample at Ghot, Navade and Pali all samples were within the desirable limit of 500 mg/l where as other samples are within the permissible limit of 2000 mg/l. The chloride value is ranging from 14 mg/l at MIDC area to 95 mg/l at Navade, however the desirable limit is 250 mg/l and the permissible limit is 1000 mg/l.

Fluoride is the other important parameter, which has both higher and lower limits. The optimum content of fluoride in the drinking water is 0.6 to 1.5 mg/l. If the fluoride content is less than 0.6 mg/l it causes dental carries, above 1.5 mg/l it causes staining of tooth enamel, higher concentration in range of 3 – 10 mg/l causes fluorosis. In the study area the fluoride value were in the range of 0.4 mg/l to 1.1 mg/l.

Surface water

Two samples were collected from Gadi and Kasardi river. The samples showed pH of 7.4 and 7.7 respectively. Total dissolved solids were found to be 208 mg/l and 510 mg/l while chlorides were found to be 35 mg/l and 92 mg/l respectively. The surface water samples did not show any high fluoride concentrations.

3.4 Soil Quality

The analytical results of the 7 soil samples collected during the study period are summarized below.

The pH of the soil is an important property; plants cannot grow in low and high pH value soils. Most of the essential nutrients like N, P, K, Cl and SO₄ are available for plant at the neutral pH except for Fe, Mn and Al which are available at low pH range. The pH values in the study area are varying from 6.81 to 7.72 showing neutral only.

The other important parameters for characterization of soil for irrigation are N,P,K. the nitrogen value is varying from 5 to 122 meq/100gm, Phosphorus value is varying from 2.6 to 28 meq/100gm and Potassium value is varying between 11 to 136 mg/kg. All three parameters are showing that the soils require addition of N, P, K as they are falling low grade soils.

4.0 Identification Of Impacts

Any developmental activity in its wake will bring about some impacts associated with its origin, which can be broadly classified as reversible, irreversible, long and short-term impacts.

4.1 Construction Related Impacts

Since the project is proposed to be established adjacent to the existing parent industry, no major construction activity like leveling, movement of earth etc are envisaged. The most likely changes, if any, on the environment during the construction phase would be controlled by sprinkling water on road surfaces and covering the trucks with plastic sheets while moving in and out of the plant.

Generation of noise is due to operation of heavy equipment's and increased frequency of vehicular traffic in the area. However, these impacts are short term, intermittent and temporary in nature.

4.2 Operation Related Impacts

Air Environment

Prediction of impacts from the proposed IPA plant on the ambient air quality was carried out using air quality simulation models. The main sources of pollution envisaged from the plant are Fugitive emissions and Point source emissions (Boiler, DG set).

The fugitive emissions will be resulted from various operations and are expected due to evaporation losses. Even though the are within the standards for further reducing the evaporation losses by proper maintenance of all pipelines, reactors etc through regular timely maintenance and as well as by adopting good production practices.

To meet the steam requirements of the process, a boiler with a capacity of 30 TPH is proposed using a mixture of Furnace oil and Purge gas. The total fuel requirement per day would be to the tune of 52TPD of Furnace oil and 12 TPD of

purge gas, which is generated in the process of manufacture of IPA. Modeling has been carried out for 30TPH boiler emissions as a worst case to study the predicted increase in ground level concentrations due to the plant activities.

Stack and Emission Details

Stack No	Attached to	Height	Dia.	Velocity	Volume	Temp.	SPM	SO ₂
		(m)	(m)	(m/s)	NM ³ /hr	° K	g/s	g/s
1	Boiler 30TPH	63.5	1.4	15	51550	443	0.60	42

Predictions were carried out as per CPCB guidelines "Assessment of Impact to Air Environment: Guidelines for conducting air quality modeling" for pre monsoon season. The future predicted concentrations estimated by super imposing the predicted values over the base line values and presented in following table.

Predicted baseline values of SPM and SO₂ in SW direction

Pollutant	Baseline Max. Value - ($\mu\text{g}/\text{m}^3$)	Predicted Max. contribution to GLC's - ($\mu\text{g}/\text{m}^3$)	Predicted future AAQ concentration - ($\mu\text{g}/\text{m}^3$)
Particulate Matter	156	0.281	156.28
Sulphur dioxide (SO ₂)	12	19.70	31.70

(24 hrly average)

Water Environment

The entire wastewater generated 667 m³/day is treated in the existing effluent treatment plant before sending to Common CETP (used as dilution water) for further disposal. However, to meet the new demands, slight modifications are proposed in the existing ETP. The effluents after treatment will be routed to Taloja Common effluent Treatment plant Co-op Society Ltd for final disposal. Hence impact on ground water quality is not envisaged.

Land Environment

Solid waste generated from the proposed plant is from process (spent catalyst) expected to be in a small quantity 60 Tons per two years. And Calcium phosphate of around 1 TPM from ETP.

As the entire solid waste generated is sold authorized agents no damage is envisaged on the land environment.

CHAPTER-V ENVIRONMENTAL MANAGEMENT PLAN

5.0 Objective

The purpose of the Environmental Management Plan (EMP) is to minimize the potential environmental impacts from the project and to mitigate the consequences. EMP reflects the commitment of the project management to protect the environment as well as the neighbouring populations. The potential environmental impact envisaged from the project is studied on the following environmental components:

- Air pollution from the stacks
- Fugitive emissions
- Water pollution due to the wastewater generation
- Soil pollution due to solid waste disposal

The management action plan aims at controlling pollution at the source level to the possible extent with the available and affordable technology followed by treatment measures before they are discharged. The following additional mitigation measures are recommended in order to synchronize the economic development of the study area with the environmental protection of the region.

5.1 Environmental Management Plan

Preparation of Environmental Management Plan is required for formulation and monitoring of environmental protection measures during construction and operation of proposed plant. The plan should indicate the details as to how various measures proposed to be taken for mitigation of adverse impacts if any from the proposed project.

The following sections describe the Environmental Management Plan for proposed IPA Plant during construction and post construction phases.

5.2 Construction Phase

The construction activity includes the handling of the construction material and equipment, vehicular movement etc.

The major culprit during any construction activity is the fugitive emission that is released from the construction activity and the vehicular movement during the

construction. Dust control is a major issue during the construction phase along with the waste water generated from the construction and the domestic sewage generated by the construction camp, oil and material spillages during the handling and the transportation of the construction material and the solid waste generated during the construction.

Dust suppression is achieved by spraying water on the unpaved roads and covering the trucks transporting the construction material with tarpaulin or other covers and taking steps to minimize spillages during the transport and the handling of the material.

Noise effect on the nearby habitation during construction activities will be negligible as the nearest habitation is more than 1 km from the plant. However construction labour would be provided with noise protection devices like ear muffs, and occupational safety ware. It is recommended that all noise generating equipment to be stopped during night timings.

The waste oil generated by construction equipment would be disposed through authorized recyclers and unauthorized dumping of waste oil is prohibited.

Adequate security arrangement should be made to ensure that the local inhabitants and the stray cattle are not exposed to the potential hazards of construction activities.

5.3 Post Construction Phase

Project authorities are planning to implement several measures to curtail pollution to the maximum extent. Environment management at design stage includes all the steps undertaken at the design stage by the project proponents to meet the statutory requirements and towards minimizing environmental impacts.

The design basis for all process units will lay special emphasis on measures to minimize effluent generation and emission control at source. The specific control measures related to gaseous emissions, liquid effluent discharges, noise generation, solid waste disposal etc. are described below:

5.3.1 Air Environment

The suspended particulate matter, Sulphur dioxide and Oxides of Nitrogen concentrations in the ambient air will increase slightly due to the emissions from the proposed boiler. The desired stack height of 63.5 m will be provided as per the

guidelines issued by the GPCB for the proposed boiler for the effective dispersion of the pollutants.

The sources of air emission from the plant are a) Point source (Boiler) emissions
b) Non Point source (Fugitive) emissions.

a) Point Source (Boiler) Emissions

One of the main sources of air pollutants from proposed project is the use of fuels for energy requirement. For steam requirements of the plant, one boiler of 30 TPH is being proposed.

Particulate matter, SO₂ and NO_x are the major emissions from the plant. However as the fuel proposed to be used for boiler being furnace oil and purge gas Particulate matter envisaged is negligible, and for proper dispersion of SO₂ and NO_x into surrounding environs; stack height has been maintained as per the existing norms. The details of the stack height calculations are given in **Table 5.1**.

A stack height of 63.5 m is provided as per MoEF guidelines. And for 75 KVA DG set a stack height of 2 meters above the building is proposed.

In addition to above boiler ^{operation} is controlled by programmable Logic Control - Supervisor Control and Data Acquisition System, (PLC-SCADA) based system.

Table 5.1
Details of Stack height calculation for Boiler and DG

Boiler	Specifications
Capacity	30TPH
Fuel Consumption	52 TPD furnace oil and 12 TPD Purge gas
Sulphur %	0.35% furnace oil
Sulphur dioxide content	$52000 \times 0.035 \div 24 = 151.7$ kg/hour
Stack height as per MoEF	$14 (\text{SO}_2 \text{ kg/hr})^{0.75}$
Stack Height H meters	$14(151.7)^{0.75} = 63.15$ m
proposed stack height	63.5 m
Particulate matter control system	Cyclone and programmable Logic Control – Supervisor Control and Data Acquisition System, (PLC-SCADA) based system. <i>OK</i>
DG set	
Capacity	75 KVA
Stack height as per MoEF	$H = h + 0.2 \sqrt{\text{KVA}}$
Stack height H meters	Height of building $+ 0.2 \sqrt{75 \text{ KVA}} = 1.73$ m or say 2 meters

b) Non Point source (Fugitive) emissions

To control the fugitive emissions during various operations in the proposed plant, management is proposing dedicated pipe lines from one section to another section, and all reactor and storage tanks are provided with vent condensers. The details of the control measures proposed are given in Table 5.2.

Table 5.2
Control measure proposed for controlling Fugitive emissions

S. No	Description	Control Measure
1	To Control losses during transferring from section to section	Dedicated pipelines, solvent storage tanks provided with vent condensers
2	To Control losses during manufacturing process	All reactor are provided with vent Condensers

5.3.2 Air Quality Monitoring

a) Stack Gas Monitoring

Provisions will be made in the stack for carrying out stack gas analysis as per the laid out guidelines. The monitoring would be carried out regularly as per the conditions in the consent to operate.

b) Ambient Air Quality Monitoring

The concentration of SPM, SO₂ and NO_x in the ambient air outside the project boundaries and in the adjoining villages should be monitored as per the direction of the state pollution control board.

5.4 Water Environment

The water requirement at maximum production would be 2765.2 m³/day, for all its purposes including process, floor and reactor washings, boiler, cooling tower, canteen/ domestic requirements. The total wastewater generated from the proposed project is 667 m³/day. The details of waste water generation are given in Table 5.3

Table 5.3
Wastewater Generation Details- m³/day

S.No	Description	Effluent	Remarks
1	Domestic	1.2	STP
2	Cooling tower	249.8	ETP
3	DM Plant	57.6	ETP
4	Process, reactor wash, floor washes, etc	317.328	ETP
		14.52	ETP
		2.664	STP
5	Boiler	24	ETP
6	Export	0	-
Total		666.912	

5.4.1 Effluent Treatment Plant Details

1. Details of Proposed IPA plant

The process effluents originating from proposed IPA plant consist of Phosphates. The Phosphates containing effluents treated with milk of lime in Reaction Tank 1. The lime mixed effluent is sent to Clariflocculator where sludge, as calcium

phosphate, is separated. The separated sludge is centrifuged and solids are separated. The mother liquid is sent to parent industry ETP for further treatment and the treated wastewater is sent to CETP for final disposal.

The effluent from utilities (boiler, DM plant and Cooling tower) are added to Reaction tank III of the parent industry treatment plant (effluent after ammonia stripping).

The domestic sewage along with part of the process water containing COD is sent to parent industry sewage treatment plant for treatment.

2. Details of Existing Effluent Treatment Plant of Parent Organization

The effluents generating from the various plants essentially consists of Ammonical nitrogen, Nitrate – Nitrogen, phosphates. The treatment facilities are described below.

Designed capacity - 3600 m³/day,
Present Load 2742.3 m³/day

a) Phosphate removal

The process effluent stream coming from Ammonium Nitrate Phosphate (ANP) plant and tank farm is first equalized in the Collection/holding tank (CT I) and pumped to Reaction tank – I to raise the pH up to 9.0 by adding lime. The overflow through gravity will go to clarifloculator for separation of calcium phosphate sludge. The sludge is sent to centrifuge and the concentrate is sent back to CT 1 and the sludge cake is disposed off. The treated effluent is sent to Reaction tank IIA.

b) Dissociation of ammonia

The effluent streams from Low density ammonium nitrate (LDAN) plant, Tank farm ammonia, Ammonia Plant, and Weak Nitric acid (WNA) plant, Ammonia plant floor washings are collected in Collection/holding tank (CT II) and through gravity flows to Reaction Tank IIA.

The pH in the Reactions Tank IIA is maintained around 10.5 to 11 by addition of caustic, so that at this pH ammonium ion present in the effluent get dissociated into ammonia gas and H⁺ ions.

c) Ammonia stripping

The effluent containing dissociated ammonium gas is sent to two-stage ammonia stripping plant. At 1st stage ammonia stripping the pH of the effluent falls down from here the effluent flows to Reaction Tank IIB where pH is again raised to around 10.5 to 11 and then pumped to 2nd stage ammonia stripping. At this stage the ammoniacal nitrogen in the effluent will be around 108 mg/l. This effluent stream further requires treatment prior to biological denitrification process for nitrate nitrogen removal.

The above treated effluent is collected in Reaction Tank III which is neutralized by addition of DM plant wastewater and diluted with cooling tower blow down so that the ammoniacal nitrogen concentration is around 50 mg/l (which can be treated biologically by denite bacteria). In case the cooling tower blow down is not available, the treated effluent is recycled back to the system.

d) Nitrate -N and Nitrite -N removal

The treated wastewater from Reactions tank III which still contains Nitrate -N and Nitrite -N is subjected to two stage denitrification in denite bioreactor. The stage I denite bioreactor is equipped with 3 nos 10 HP agitators and stage II denite bioreactor is equipped with 3 nos 75 HP agitator. The treated water from stage I denite bioreactor goes to clarifier I for separation of suspended biomass part of the biomass is recycled for stabilization and excess sludge is sent to sludge drying beds.

Provision is made for addition of methanol as organic carbon source for heterotrophic denite bacteria.

e) Polishing/aeration

The treated wastewater over flowing from denite clarifier is collected in polishing aeration tank which is provided with polishing diffuse aeration grids to increase the Dissolved oxygen of the treated effluent before discharged in to CETP Sewer line.

The details of Units of ETP are given **Table 5.4** and the characteristics of wastewater before and after treatment are given in **Table 5.5**.

Table 5.4
Existing Treatment Facilities

S. No	Code No	Units
1	CT I	Collection /holding Tank, CT-I
2	RT I	Reaction Tank-I
3	CF I	Clarifloculator
4	AS I	Ammonia stripper Stage-I
5	AS II	Ammonia stripper Stage-II
6	RT IIA	Reaction Tank-IIA
7	RT IIB	Reaction tank -IIB
8	RT III	Reaction Tank-III
9	DN I	Denitrification tank stage-I
10	CL I	Clarifier stage-I
11	DN II	Denitrification tank stage- II
12	CL II	Clarifier stage-II
13	PT	Polishing tank

Table 5.5
Wastewater Characteristics – Before & After Treatment

S. No	Parameters	Units	Before			After Range
			Process, washes, etc	CT, Boiler, DM	Domestic & Process	
1	pH		6.0-7.0	6.0-7.0	6.5-8.0	5.5 to 9.0
2	Suspended solids	Mg/l	99	21	147	< 100
3	BOD	Mg/l	145	18	507	<100
4	COD	Mg/l	247	23	845	<250
5	Oil & Grease	Mg/l	<10	<5	<5	<10
6	TDS	Mg/l	697	-	831	<800
7	Amm. Nitrogen	Mg/l	94	-	-	<50
8	KJ Nitrogen	Mg/l	247	-	-	-
9	Phosphates	Mg/l	90	-	-	<1

The entire wastewater generated is treated and sent to CETP for further disposal along with treated effluent at CETP. The present existing Effluent treatment system will be modified to treat the effluents generated from the proposed IPA plant to the standards laid down by the MPCB. The flow sheet of proposed modification in existing ETP for handling the phosphate bearing effluents and the existing plant is shown below

3) Domestic Sewage Treatment Plant

The sanitary sewage wastewater and part of process wastewater containing biodegradable matter which is around 3,864 m³/day will be treated in the existing sewage treatment plant (STP) of capacity 168 m³/day. The STP comprises aeration tanks followed by clarifier. The existing sewage treatment plant consists of settling tanks, aeration tanks, and clarifiers.

5.4.2 Monitoring of Waste Treatment

All the treated effluents shall be monitored regularly for the flow rate and quality to identify any deviations in performance of effluent treatment plants. Appropriate measures would be taken if the treated effluent quality does not conform to the permissible limits.

5.4.3 Storm Water Drainage

Based on the rainfall intensity of the proposed area, MDC drainage system is designed on the basis of the storm water flow.

Storm water drainage system consists of well-designed open surface drains network so that all the storm water is efficiently drained off to without any water logging.

5.5 Noise level management

The incremental noise level due to the proposed plant will be in the range of 45 dB (A) to 49 dB(A) near the plant boundaries in all the directions. The ambient noise levels in the region are within permissible limits.

During purchasing of the major noise generating equipments all necessary control measure will be include in design requirements to have minimum noise levels meeting occupational safety and health association (OSHA) requirement. Appropriate noise barriers/shields, silencers etc. would be provided in the equipment. The noise control is taken in the following ways, namely;

- ❖ By selecting low noise prone equipment

- ❖ By isolating the noise prone unit from the working personnel's continuous exposure
- ❖ By administrative control,

The administrative control would have a major role to monitor noise, take remedial measures and ensure that no plant personnel is over exposed to noise.

Recommendations

- ❖ The use of damping material such as thin rubber/lead sheet for wrapping the work places like turbine halls, compressor rooms etc;
- ❖ Shock absorbing techniques should be adopted to reduce impact;
- ❖ Efficient flow techniques for noise associated with high fluid velocities and turbulence should be used (like reduction in noise generated by control levels in both gas and liquid systems achieved by reducing system pressure to as low as possible);
- ❖ All the openings like covers, partitions should be acoustically sealed;
- ❖ Inlet and outlet mufflers should be provided which are easy to design and construct;
- ❖ Ear plugs will be provided to workmen working near high noise generating sources;
- ❖ Noise levels should be reduced by the use of absorbing material on roof walls and floors;
- ❖ Increase the distance between source and receiver by altering the relative orientation of the source and receiver. Noise level at the receiver end reduces in inverse proportion to the square of the distance between the receiver and the source;
- ❖ Provision of separate cabins for workers/operators; and

- ❖ The industrial compound should be thickly vegetated with species of rich canopy

The plant already having an in-house environmental laboratory for the routine monitoring of air, water, soil and noise. For all non-routine analysis, the plant may utilize the services of external laboratories and facilities.

5.6 Solid Waste Management

The main solid waste generated from proposed IPA plant are Calcium phosphate 1 TPD from treatment plant and spent catalyst 60 Tons for two years from manufacturing process. The entire solid waste is sold to authorized agents collecting solid waste.

Table 5.0
Solid Waste Generation & Disposal

Solid Waste	Generation, TPA	Disposal Method
Silica gel	60 Tons per two years	Will be sold to MPCB authorized solid waste collecting vendor
Calcium phosphate	1 TPD	

5.7 Green Belt Development

The purpose of a greenbelt around the plant site is to capture the fugitive emissions, attenuate the noise generated and improve the aesthetics. The greenbelt at the plant site would form an effective barrier between the plant and the surroundings. Open spaces, where tree plantation may not possible, will be covered with shrubs and grass to prevent erosion of topsoil. Adequate attention will be paid to plantation of trees, their maintenance and protection. During commissioning of the project management is proposing to develop a greenbelt all along the boundary wall of plant, along the roads, and surroundings of the production block, boiler, ETP, etc.

A Green belt with 2500 plants is developed in the plant area consisting of species like, Gulmohar, Bamboo, Karanj, Jambhool, Astumbul, and Neem. Annually and proposed to add around 200 plants per year.

5.7.1 Plant Species for Greenbelt

While selecting the plant species for the proposed green belt, the following guidelines will be considered:

- Fast growing type
- Should have a thick canopy cover
- Should be perennial green
- Native origin
- Should have a large leaf area index.

5.7.2 Design of Green Belt

As far possible the following guidelines will be considered in green belt development,

- The spacing between the trees will be maintained slightly less than the normal spaces, so that the trees may grow vertically and slightly increase the effective height of the green belt.
- Planting of trees in each row will be in staggered orientation.
- In the front row shrubs consisting of Callistemon, Prosopis etc. will be grown
- Since the trunks of the tall trees are generally devoid of foliage, it will be useful to have shrubs and trees in front of the trees so as to give coverage to this portion.
- Shrubs and trees will be planted in encircling rows around the project site
- The short trees (< 10 m height) will be planted in the first two rows (towards plant side) of the green belt. The tall trees (> 10 m height) will be planted in the outer three rows (away from plant side).

Tall trees one line and short trees one line will be planted around the boiler house, DG set room and around the production blocks to control the fugitive emissions and to reduce the noise.

The list of plants proposed to be planted in future for developing greenbelt are given in Table 5.7 to 5.10

Table 5.7

Plant Species Recommended For Reduction Of Noise Level

S. No	Scientific Name	Common Name
1	<i>Azadirachta indica</i>	Neem
2	<i>Aegle marmelos</i>	Bel
3	<i>Calceolaria trochera</i>	Dhala sirisa
4	<i>Carissa carandas</i>	Karaunda
5	<i>Peltophorum inerme</i>	Perungandrai
6	<i>Saraca indica</i>	Asoka
7	<i>Syzygium cumini</i>	Zaman
8	<i>Tamarindus indica</i>	Imli
9	<i>Pongamia pinnata</i>	Beng
10	<i>Cassia siamla</i>	Chakundi

Table 5.8

Plant Species Recommended For Protection Against Gases And Particulates

S. No	Scientific name	Common Name
1	<i>Butea monosperma</i>	Dhak
2	<i>Cassia fistula</i>	Amaltas
3	<i>Cassia siamla</i>	Kassod
4	<i>Citrla toona</i>	Mahanim
5	<i>Dalbergia sissoo</i>	Shisham
6	<i>Dillenia indica</i>	Chalta
7	<i>Ficus religiosa</i>	Pipal
8	<i>Hardwick binata</i>	Anjan
9	<i>Mathuca indica</i>	Mahua
10	<i>Millingtonia hortensis</i>	Akash nim

Table 5.8
Suggested Plant Species For Green Belt Development

S. No	Scientific name	Common Name
Large Plants		
1	Codrueia loona	Mahanim
2	Dalbergia sissoo	Shisham
3	Azadirachta indica	Neem
4	Delonix regia	Gul mohr
5	Millingtonia hortensis	Aksh nim
6	Mimosaops eleng	Maulsari
7	Peltophorum inerme	Perungondrai
8	Santania saman	Debdari
9	Thespsia populnea	Paras papal
Medium Plants		
1	Cassia siamia	Kassod
2	Dillenia indica	Chalta
3	Mathuca indica	Mahua
4	Casuriana equisetifolia	Jungali Suru
5	Pongamia pinnata	Beng
6	Tabulia sparsosa	-
7	Ticoma stans	
8	Terminalia catappa	Jangli badam
9	Thavetia peruviana	Pile kamer
10	Lucyena leucocophala	Subabul
Small Plants		
1	Averrhoa carabbota	Carabola
2	Nallotus philippensis	Sundu
3	Artaboteys odoratissimus	Madenmast
4	Caesalpinia pulcherama	Gulotora
5	Callistemon lanceolatus	Bottle brush
6	Caryota urens	Mani
7	Cestrum diurnum	Din-Ka Raja
8	Nalia ezedarch	

Table 5.10
Suggested Plant Species For Road Side Plantation

S. No	Scientific Name	Common Name
1	Azadirachta indica	Neem
2	Pongamia pinnata	Beng
3	Saraca indica	Ashoka
4	Delonix regia	Gul mohr
5	Peltophorum inerme	Copper pod tree
6	Samanea saman	Rain tree
7	Cassia nudosa	Pink cassia
8	Bassia latifolia	Mahuva
9	Bahunia variegata	-

5.8 Industrial Safety, health & Hygiene:

The industry has set up a safety, health and environment cell with a qualified person as in charge for safety, health and environment. Reports to the factory manager directly. The chemical laboratory with qualified chemist carries out the necessary analysis and reports to Manager (SHE). Annual Medical checkup is done for all employees. Further check ups are done as and when necessary on doctors advice; required qualified external experts are appointed as and when necessary.

DFPCL takes pride in its health and safety record. We have capabilities in handling and movement of hazardous, toxic and inflammable chemicals. In appreciation of our skill and efforts in maintaining a good record on health and safety, the British Safety Council has presented the company with The British Safety Council Award for the year 2000-2001, making it the third year in a row.

DFPCL follow strict norms for handling of chemicals at our end and recommend safety norms for handling and transportation of our products.

- General Safety Parameters for loading and Transportation of Chemicals
- Vehicle Permit System
- Product-wise Safety Precautions

5.9 Environmental Laboratory Equipment

The parent industry is having an in-house environmental laboratory for the routine monitoring of air, water, soil and noise. For all non-routine analysis, the plant may utilize the services of external laboratories and facilities. The list of laboratory equipments available for monitoring and analysis are listed in below Table.

Table 5.11
List of Equipment of Environmental Laboratory

Name of the Equipment
Weather Monitoring Station
a) Online Automatic gaseous stack monitoring kit for SO ₂ , NO _x , O ₂ , Flue gas volume, Temperature etc. b) On line dust monitor
RD Samplers
Portable Flue Gas Combustion Analyser
Bomb Calorimeter for analyzing sulfur content, calorific value etc.
Atomic Absorption Spectrophotometer
Mercury analyzer
Portable Noise level meter (Dosimeter)
Portable Waste Water Analysis Kit
BOD Incubator & COD Digester with colorimeter
Electronic Balance
Colorimeter
Conductivity Meter
Different micron sieves (set)
Dissolved Oxygen Meter – Portable type
Electronic colony counter
Flask Shaker
Hot Air Oven
Laboratory Water Distillation and demineralization unit

5.10 Post Project Environmental Management

The environmental management in the proposed unit will also handled by the existing setup. Presently the environmental management department is headed by Sr. Manager (Safety and Environment). He reports to GM (Tech/VP (Manufacture)). The Sr. Manager is assisted by three assistant managers to look after the safety and environmental factors round the clock. Each assistant engineer in turn is assisted by the staff trained in safety and environmental protection.

The organization setup for Environmental Management of the proposed project is given in Figure 5.3.

The department is the nodal agency to co-ordinate and provides necessary services on environmental issues during operation of the project. This environmental group is responsible for implementation of environmental management plan, interaction with the environmental regulatory agencies, reviewing draft policy and planning. This department interacts with Maharashtra State Pollution Control Board (MSPCB) and other environment regulatory agencies. The department also interacts with local people to understand their problems and to formulate appropriate community development plan.

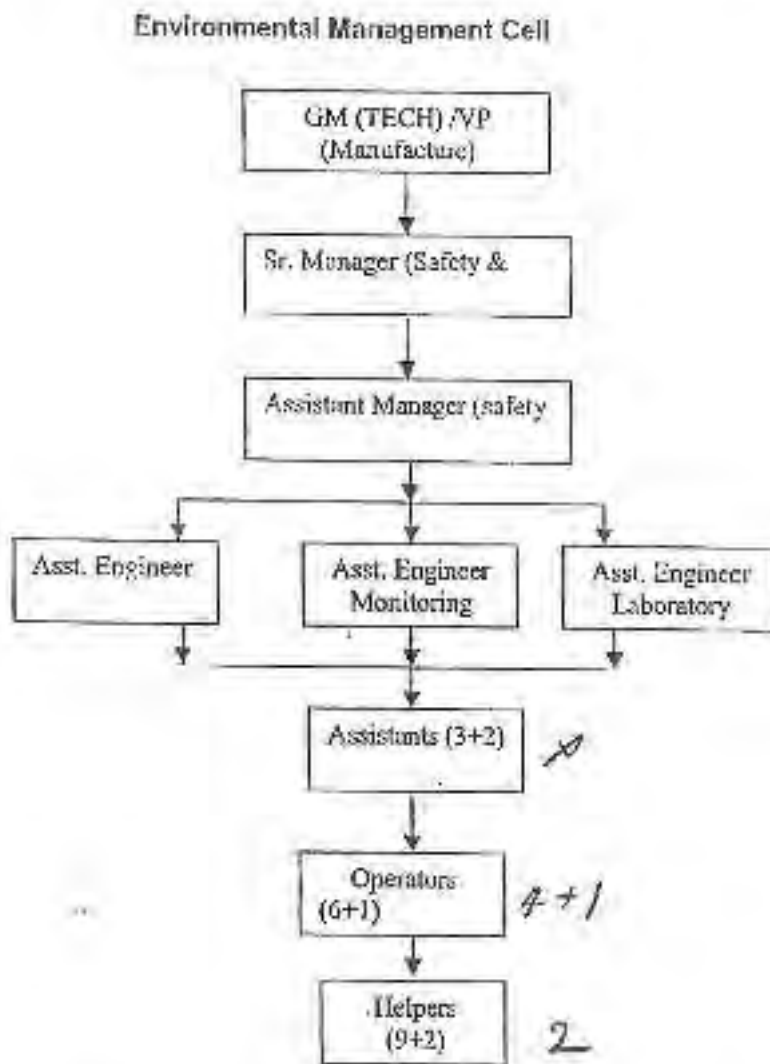


Figure 5.3 Environmental Management Cell

EC-IPA (J-11011/218/2004-IA II (I) dt 24.02.06, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, N Delhi - 110 003.

SN	Specific Conditions	Compliance details (June 2023)
i)	The gaseous emissions (SO ₂ , NO _x , NH ₃ & HCl) and particulate matter from various process units shall confirm to the standards prescribed by authority from time to time. At no time the emission levels shall go beyond the stipulated standards. The Stack height shall be as per CPCB guidelines. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Further, the company shall interlock the production system with the pollution control devices.	There is no process stack in IPA emitting any gaseous emissions (SO _x , NO _x , NH ₃ , HCl & SPM). All emission stacks are being monitored by third part laboratory. Also three continuous monitoring AAQMS stations are installed connected to CPCB and MPCB portals. 2. The stack height for all consented stack is provided as per CPCB / MPCB guidelines 3. Addition of above Ambient air & all the consented stacks are being monitored by MOEF & CC approved lab. (Refer- Annexure-1 for stack emission report)
ii)	AAQ monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentrations are anticipated in consultation with the MPCB.	Three continuous monitoring AAQM stations are installed and connected to MPCB portal and operated continuously along with monthly monitoring by MOEF approved Laboratory. (Refer- Annexure-2 for Ambient air quality monitoring report)
iii)	Fugitive emissions in the work zone environment, product and raw material storage area shall be regularly monitored. The emissions shall be controlled and confirm to the limits prescribed by CPCB.	In IPA plant fugitive emissions are hydrocarbon and 11 nos of sensors are installed at critical locations. Workzone monitoring is being monitored for Sox, Nox & CO. (Refer- Annexure-3 for Workzone monitoring report)
iv)	Total water requirement should not exceed 2800 m ³ /day as per permission accorded by MIDC vide letters dated 03.03.04 and 07.07.05. Further, efforts shall be made for further conservation of water and utilization of waste water.	Water requirement doesn't exceed the limit of water consumption of MPCB CTO. As a part of water conservation waste water of the plants is utilized to reduce fresh water consumption. RO system is installed for waste water utilization. (Refer- Annexure-4 for Treated effluent monitoring report)
v)	The effluent generation shall not exceed 667 m ³ /day. All the effluent shall be treated in the augmented ETP and shall be monitored for the pH, SS, TDS, O & G, BOD, COD, Phosphates & ammoniacal Nitrogen & other relevant parameters. All the treated effluent shall be sent to CETP at Talaja for further treatment. The domestic effluent shall be treated in the existing Sewage Treatment Plant.	Effluent generation is maintained within the stipulated norms. In IPA plant itself the COD water stream treated in organic recovery column to reduce the COD before sending it to ETP. In addition to monitoring of all the ETP parameters (pH, TSS, TDS, O & G, BOD, COD, Phosphates & ammoniacal Nitrogen & other relevant parameters) through sampling internally and third party, OCMES is installed for monitoring of ETP parameters (pH, SS, TSS, TDS, O & G, COD, NH ₄ N, NO ₃ N, Phosphates) Treated effluent is sent to CETP Talaja. Domestic effluent is used ETP. (Refer- Annexure-4 for Treated effluent monitoring report)
vi)	The company shall undertake following Waste Minimization measures: * Metering and control of quantities of active ingredients to minimize waste * Reuse of by-products from the process as raw materials or as raw material substitute in other processes. * Use of automated filling to minimize spillage * Use of close feed system into batch reactor * Venting equipment through vapour recovery system * Use of high pressure hoses for equipment cleaning to reduce waste water generation	*No active ingredient involved in IPA *Propane and Di Isopropyle Ether are the the products from IPA plant and these are sold to customers. *All the tankers are filled through the closed auotmated system to avoid the spillage. *Our IPA plant is a continuous process and closed filled system is provided to reactor. *As such there is no venting equipment however critical vents are connected to flare system. *High pressure are used to clean the equipments during shutdowns.
vii)	The solid waste generated in the form ETP sludge shall be stored in HDPE lined secured landfill at the site. Spent catalyst and used oil shall be sold to authorized re-processor.	Complied. ETP sludge is being recycled as a filler infertilizer plant.
viii)	The project authorities shall strictly comply with the rules and guidelines under MSIHC Rules, 1989 as amended in October, 1994 and January 2000 and HWMH Rules, 2003 as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	All related provisions of MSIHCR-1989 and HWMHR-2003, with their amendments are complied with. Authorization through CTO, valid till 31/03/2026, is obtained from MPCB for collection, treatment, storage and disposal of hazardous waste. (Refer- Annexure-5 for copy of CTO)
ix)	Company shall develop surface/roof top rain water harvesting structures to harvest runoff water for recharge of ground water.	Rain water harvesting system is provided at WNA 3 & 4 plants.
x)	Green belt shall be provided in at least 25% of the plant area to mitigate the effects of fugitive emission all around the plant. Development of green belt shall be as per CPCB guidelines.	Complied with. 33.14 % of plot area is developed as Green belt. In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhav di Village which is located near Dombivali which approximately 15 kms away from our site. (Refer- Annexure-6 for details of green belt development)
xi)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories act.	Medical examination of all the workers is done once in a six month as per the factories act and records are maintained.
General Conditions		
i)	Project authorities shall strictly adhere to the stipulations made by the MPCB	Complied with. We have submitted compliance report to MPCB towards compliance of conditions of consent to operate.
ii)	At no time the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be put out of operation and shall not be restarted until the desired efficiency has been achieved.	There is no process stack in IPA emitting any gaseous emissions (SO _x , NO _x , NH ₃ , HCl & SPM). However 1. Three continuous monitoring AAQMS stations are installed connected to CPCB and MPCB portals. 2. PM is exceeding continuously in all the season excluding rainy season . 3. The emission of N ₂ O & NO is continuously exceeding for WNA plant. 5. OCEMS is provided to NPK ,AN & ANP stacks & connected to CPCB & MPCB server 4. The stack height for all consented stack is provided as per CPCB / MPCB guidelines 5. Addition of above Ambient air & all the consented stacks are being monitored by MOEF & CC approved lab.
iii)	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this 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 measures required, if any.	Complied
iv)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EP Act, 1986, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Acoustic enclosures have been provided to DG sets. Periodic noise monitoring is done by MOEF approved 3rd party laboratory at six different locations and noise level is within the standatds prescribed under Noise regulation rule 2000. (Refer- Annexure-7 for noise monitoring report)
v)	The Project Proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.	Environment protection measures and recommendations given in EIA are complied with.
vi)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry-out the Environmental Management and Monitoring functions.	A separate Environmental Management Cell equipped with laboratory facilities.
vii)	The Project authorities shall earmark separate funds of Rs 25.80 lakhs to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Fund is utilized for implementation of environmental safeguard.
viii)	The Company shall undertake welfare measures and community development measures for the local people in the vicinity of project area.	The Company has been undertakeing welfare measures and community development measures for the local people in the vicinity of project area. (Refer- Annexure-8 for copy of CSR report)

SN	Specific Conditions	Compliance details (June 2023)
ix)	The implementation of the project vis-a-vis environmental action plan shall be monitored by the Ministry's Regional Office at Bhopal / MPCB / CPCB. A Six monthly compliance status report shall be submitted to monitoring agencies.	Six monthly compliance reports are being sent to Regional Office of MOEF and MPCB. Last report was sent on Dec 2022. Copy of the same posted on the company's web-site.
x)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the letters are available with the MPCB and may also be seen at website of the Ministry at http:// envfor.nic.in . This shall be advertised within seven days from date of issue of the clearance letter at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and the copy of the same shall be forwarded to ministry's regional office at Bhopal.	Complied with Proponent has informed to the public vide newspaper that the project has been accorded environmental clearance by the Ministry and copies of the letters are available with the MPCB and may also be seen at website of the Ministry at http:// envfor.nic.in .
xi)	The project authorities shall inform the Regional Office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied with The project authorities has informed to the Regional Office as well as Ministry.
xii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xiii)	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted
xiv)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and	Noted

Environment Monitoring FY 2022-23 (Quarterly)_MOEF&CC LAB

HRSG 1:								
Paremeters	Consented Limits	UOM	Jun-22	22-Jul	Aug-22	Feb-23	22-Nov	Average
NO2 (Oxide of Nitrogen)	400	mg/Nm3	15.7	15.7	15.2	16.1		15.675
SO2	--	mg/Nm3	0		--	Nil		0
CO	--	mg/Nm3	17.2	17.2	19.5	18.9		18.2
PM	10	mg/Nm3	0		Nil	2.1		1.05
HRSG 2:								
Paremeters	Consented Limits	UOM	22-May	Aug-22	22-Nov	Dec-22	Feb-23	Average
NO2 (Oxide of Nitrogen)	400	mg/Nm3	144.6	158.9	162.5	121.4	108.9	139.26
SO2	--	mg/Nm3	0	--	Nil	Nil	Nil	0
CO	--	mg/Nm3	20.8	28.6	34.4	29.8	32.1	29.14
PM	10	mg/Nm3	0	Nil	Nil	0.9	1.6	0.83333
HRSG 5:								
Paremeters	Consented Limits	UOM	22-May	Aug-22	22-Nov	Feb-23		Average
NO2 (Oxide of Nitrogen)	400	mg/Nm3	196.4	175	169.6	144.6		171.4
SO2	--	mg/Nm3	0	--	Nil	Nil		0
CO	--	mg/Nm3	22.9	26.3	32.1	28.6		27.475
PM	10	mg/Nm3	0	Nil	Nil	2.3		1.15
Boiler A/B :								
Paremeters	Consented Limits	UOM	22-May	22-Nov	Dec-22	Feb-23	23-Mar	Average
NO2 (Oxide of Nitrogen)	400	mg/Nm3	16.6	17.5				17.05
SO2	--	mg/Nm3	0	Nil				0
CO	--	mg/Nm3	13.4	17.4				15.4
PM	10	mg/Nm3	0	Nil				0
Boiler D:								
Paremeters	Consented Limits	UOM	22-May	22-Nov	Dec-22	Feb-23	23-Mar	Average
NO2 (Oxide of Nitrogen)	400	mg/Nm3		16.6	17.9	15.5	15.9	16.475
SO2	--	mg/Nm3		Nil	Nil	Nil	0	0
CO	--	mg/Nm3		18.9	14.8	16	19.5	17.3
PM	10	mg/Nm3		Nil	Nil	4.2	0	2.1
Methanil Primary Reformer :								
Paremeters	Consented Limits	UOM	Apr-22	22-May	Jun-22	22-Jul	Aug-22	Average
NO2 (Oxide of Nitrogen)	400	mg/Nm3	NO	NO	NO	NO	NO	NO
SO2	--	mg/Nm3	NO	NO	NO	NO	NO	NO
CO	--	mg/Nm3	NO	NO	NO	NO	NO	NO
WNA Plant-3								
Paremeters	Consented Limits	UOM	Apr-21	Jul-21	Oct-21	Jan-23	Average	
NO2 (Oxide of Nitrogen)	400	mg/Nm3	217.9	228.8	244.6	228.6	229.975	
		Kg/day	260.99		302.61	307.51		
Ammonia	--	mg/Nm3	23.8	18.94	25.6	22	22.585	
		Kg/day	17.31		31.61	29.53		



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/10/196	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	17/10/2022 To 19/10/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	----
Stack Attached to	D. G. Set (20 KVA)
Stack Dimension [mm]	---
Fuel Used	Flue Gas Stack
Date of Sample collection	14/10/2022
Time of Sampling [Hrs]	15:10
Ambient Temperature [°C]	30
Flow Rate [LPM]	2.0
Volume of flue gas sampled [Lit. at 25°C]	39.3

ANALYSIS REPORT :

Parameters	Unit	Results	Sampling & Analysis Methods
Sulphur Dioxide	mg/Nm ³	78.9	IS 11255 (Part II) 1985
	ppm v/v	30.1	
NO _x + THC	mg/Nm ³	43.5	IS 11255 (Part VII) 2005
CO	mg/Nm ³	23.1	APHA Edition II-134

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

CHECKED BY

Note :

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



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/10/195	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	17/10/2022 To 19/10/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-10
Stack Attached to	Methanol Plant D. G. Set (1000 KVA)
Stack Dimension [mm]	280
Fuel Used	Flue Gas Stack
Date of Sample collection	14/10/2022
Time of Sampling [Hrs]	11:40
Temperature of flue gas [°C]	138
Average flue gas velocity [m/s]	8.9
Average volume of flue gas discharged [Nm ³ /hr]	1427

ANALYSIS REPORT :

Parameters	Unit	Results	Limits	Sampling & Analysis Methods
PM	g/kW-hr	0.0688	≤ 0.2 **	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	120.8		IS 11255 (Part II) 1985
	ppm v/v	46.1		
	Kg/day	4.13	80.0 *	
NO _x + THC	g/kW-hr	0.1016	≤ 4.0 **	IS 11255 (Part VII) 2005
CO	g/kW-hr	0.0578	≤ 3.5 **	APHA Edition II-134

* - M.P.C.B. Limits

** - MoEF GSR 489 (E), dtd. 09/07/2002 Limits

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/10/194	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	17/10/2022 To 19/10/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-9
Stack Attached to	IPA Plant D. G. Set (200 KVA)
Stack Dimension [mm]	200
Fuel Used	Flue Gas Stack
Date of Sample collection	14/10/2022
Time of Sampling [Hrs]	14:00
Temperature of flue gas [°C]	117
Average flue gas velocity [m/s]	7.4
Average volume of flue gas discharged [Nm ³ /hr]	641

ANALYSIS REPORT :

Parameters	Unit	Results	Limits	Sampling & Analysis Methods
PM	g/kW-hr	0.1484	≤ 0.2 **	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	110.9		IS 11255 (Part II) 1985
	ppm v/v	42.4		
	Kg/day	1.71	16.0 *	
NO _x + THC	g/kW-hr	0.2031	≤ 4.0 **	IS 11255 (Part VII) 2005
CO	g/kW-hr	0.0833	≤ 3.5 **	APHA Edition II-134

* - M.P.C.B. Limits

** - MoEF GSR 489 (E), dtd. 09/07/2002 Limits

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/10/193	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 2
Sampling Done By	GLPL	Sample Received on	13/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/2022 To 15/10/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-2
Stack Attached to	WNA – III Plant
Stack Dimension [mm]	953
Fuel Used	Process Stack
Date of Sample collection	13/10/2022
Time of Sampling [Hrs]	13:40
Temperature of flue gas [°C]	122
Average flue gas velocity [m/s]	26.5
Average volume of flue gas discharged [Nm ³ /hr]	51345

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
NO ₂	mg/Nm ³	244.6	400.0	IS 11255 (Part VII) 2005
	ppm	130.2		
	Kg/day	302.61		
Ammonia	mg/Nm ³	25.6	Not Specified	IS 11255 (Part VI) 1999
	ppm v/v	36.9		
	Kg/day	31.61		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

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P.O. No. / Date	---	Page No.	2 of 2
Sampling Done By	GLPL	Sample Received on	13/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/2022 To 15/10/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-2
Stack Attached to	WNA – III Plant
Stack Dimension [mm]	953
Fuel Used	Process Stack
Date of Sample collection	13/10/2022
Time of Sampling [Hrs]	13:40
Temperature of flue gas [°C]	122
Average flue gas velocity [m/s]	26.5
Average volume of flue gas discharged [Nm ³ /hr]	51345

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	3.1	Not Specified	IS 11255 (Part I) 1985
	Kg/day	3.82		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11/204	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-3
Stack Attached to	Boiler A & B
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	15/11/2022
Time of Sampling [Hrs.]	12:55
Temperature of flue gas [°C]	88
Average flue gas velocity [m/s]	3.5
Average volume of flue gas discharged [Nm ³ /hr]	18383

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	17.5		
	ppm v/v	9.3		
CO	Kg/day	7.72	---	APHA Edition II-134
	mg/Nm ³	17.4		
	ppm	15.2		
	Kg/day	7.68		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11/205	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-7
Stack Attached to	HRSG – 2
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	14/11/2022
Time of Sampling [Hrs.]	14:15
Temperature of flue gas [°C]	185
Average flue gas velocity [m/s]	14.4
Average volume of flue gas discharged [Nm ³ /hr]	59614

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	162.5	350.0	IS 11255 (Part VII) 2005
	ppm v/v	86.5		
	Kg/day	232.50		
CO	mg/Nm ³	34.4	---	APHA Edition II-134
	ppm	30.0		
	Kg/day	49.17		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11/206	Test Report Date	21/11/2022
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P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - STACK EMISSION


Stack No.	S-8
Stack Attached to	HRSG – 5
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	15/11/2022
Time of Sampling [Hrs.]	14:05
Temperature of flue gas [°C]	123
Average flue gas velocity [m/s]	14.2
Average volume of flue gas discharged [Nm ³ /hr]	68110

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	169.6	350.0	IS 11255 (Part VII) 2005
	ppm v/v	90.3		
	Kg/day	277.31		
CO	mg/Nm ³	32.1	---	APHA Edition II-134
	ppm	28.0		
	Kg/day	52.43		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11/207	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-5
Stack Attached to	Boiler D
Stack Dimension [mm]	2500
Stack Height [Meters]	63
Date of Sample collection	14/11/2022
Time of Sampling [Hrs.]	13:00
Temperature of flue gas [°C]	98
Average flue gas velocity [m/s]	3.7
Average volume of flue gas discharged [Nm ³ /hr]	52526

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	16.6	350.0	IS 11255 (Part VII) 2005
	ppm v/v	8.8		
	Kg/day	20.94		
CO	mg/Nm ³	18.9	---	APHA Edition II-134
	ppm	16.5		
	Kg/day	23.83		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11/204	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-3
Stack Attached to	Boiler A & B
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	15/11/2022
Time of Sampling [Hrs.]	12:55
Temperature of flue gas [°C]	88
Average flue gas velocity [m/s]	3.5
Average volume of flue gas discharged [Nm ³ /hr]	18383

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	17.5		
	ppm v/v	9.3		
CO	Kg/day	7.72	---	APHA Edition II-134
	mg/Nm ³	17.4		
	ppm	15.2		
	Kg/day	7.68		

End

For GADARK LAB PVT. LTD.

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P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-7
Stack Attached to	HRSG – 2
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	14/11/2022
Time of Sampling [Hrs.]	14:15
Temperature of flue gas [°C]	185
Average flue gas velocity [m/s]	14.4
Average volume of flue gas discharged [Nm ³ /hr]	59614

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	162.5	350.0	IS 11255 (Part VII) 2005
	ppm v/v	86.5		
	Kg/day	232.50		
CO	mg/Nm ³	34.4	---	APHA Edition II-134
	ppm	30.0		
	Kg/day	49.17		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11/206	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-8
Stack Attached to	HRSG – 5
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	15/11/2022
Time of Sampling [Hrs.]	14:05
Temperature of flue gas [°C]	123
Average flue gas velocity [m/s]	14.2
Average volume of flue gas discharged [Nm ³ /hr]	68110

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	169.6	350.0	IS 11255 (Part VII) 2005
	ppm v/v	90.3		
	Kg/day	277.31		
CO	mg/Nm ³	32.1	---	APHA Edition II-134
	ppm	28.0		
	Kg/day	52.43		

End

For GADARK LAB PVT. LTD.


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INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.
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OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.
Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11/207	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-5
Stack Attached to	Boiler D
Stack Dimension [mm]	2500
Stack Height [Meters]	63
Date of Sample collection	14/11/2022
Time of Sampling [Hrs.]	13:00
Temperature of flue gas [°C]	98
Average flue gas velocity [m/s]	3.7
Average volume of flue gas discharged [Nm ³ /hr]	52526

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	16.6		
	ppm v/v	8.8		
CO	Kg/day	20.94	---	APHA Edition II-134
	mg/Nm ³	18.9		
	ppm	16.5		
	Kg/day	23.83		

End

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TEST REPORT

Doc.No : GLPL/QF7.8/02

Test Report No.	GA/22/11/205	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-7
Stack Attached to	HRSG – 2
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	14/11/2022
Time of Sampling [Hrs.]	14:15
Temperature of flue gas [°C]	185
Average flue gas velocity [m/s]	14.4
Average volume of flue gas discharged [Nm ³ /hr]	59614

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	162.5	350.0	IS 11255 (Part VII) 2005
	ppm v/v	86.5		
	Kg/day	232.50		
CO	mg/Nm ³	34.4	---	APHA Edition II-134
	ppm	30.0		
	Kg/day	49.17		

End

For GADARK LAB PVT. LTD.


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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11/206	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-8
Stack Attached to	HRSG – 5
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	15/11/2022
Time of Sampling [Hrs.]	14:05
Temperature of flue gas [°C]	123
Average flue gas velocity [m/s]	14.2
Average volume of flue gas discharged [Nm ³ /hr]	68110

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	169.6	350.0	IS 11255 (Part VII) 2005
	ppm v/v	90.3		
	Kg/day	277.31		
CO	mg/Nm ³	32.1	---	APHA Edition II-134
	ppm	28.0		
	Kg/day	52.43		

End

For GADARK LAB PVT. LTD.


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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/12/52	Test Report Date	12/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	08/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	09/12/2022 To 10/12/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-7
Stack Attached to	HRSG – 2
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	08/12/2022
Time of Sampling [Hrs.]	17:50
Temperature of flue gas [°C]	148
Average flue gas velocity [m/s]	13.0
Average volume of flue gas discharged [Nm ³ /hr]	58548

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	0.9	10.0	IS 11255 (Part I) 1985
	Kg/day	1.26		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	121.4		
	ppm v/v	64.6		
CO	Kg/day	170.63	---	APHA Edition II-134
	mg/Nm ³	29.8		
	ppm	26.0		
	Kg/day	41.85		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/12/53	Test Report Date	12/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	08/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	09/12/2022 To 10/12/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-5
Stack Attached to	Boiler D
Stack Dimension [mm]	2500
Stack Height [Meters]	63
Date of Sample collection	08/12/2022
Time of Sampling [Hrs.]	15:50
Temperature of flue gas [°C]	97
Average flue gas velocity [m/s]	5.0
Average volume of flue gas discharged [Nm ³ /hr]	71529

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	1.1	10.0	IS 11255 (Part I) 1985
	Kg/day	1.89		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	17.9		
	ppm v/v	9.5		
CO	Kg/day	30.66	---	APHA Edition II-134
	mg/Nm ³	14.8		
	ppm	12.9		
	Kg/day	25.37		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/12/326	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 23/12/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	CNA PLANT – 1 VENT
Stack Attached to	CNA PLANT – 1
Stack Dimension [mm]	75
Fuel Used	Process Stack
Date of Sample collection	21/12/2022
Time of Sampling [Hrs]	14:30
Volume of flue gas sampled [Lit. at 25°C]	39.2

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
NOx	mg/Nm ³	32.5	--	IS 11255 (Part VII) 2005
	ppm	17.3		
	Kg/day	0.060		
Ammonia	mg/Nm ³	17.7	--	IS 11255 (Part VI) 1999
	ppm v/v	25.4		
	Kg/day	0.030		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/12/327	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 23/12/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	CNA PLANT – 2 VENT
Stack Attached to	CNA PLANT – 2
Stack Dimension [mm]	75
Fuel Used	Process Stack
Date of Sample collection	21/12/2022
Time of Sampling [Hrs]	13:50
Volume of flue gas sampled [Lit. at 25°C]	39.2

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
NOx	mg/Nm ³	30.4	--	IS 11255 (Part VII) 2005
	ppm	16.1		
	Kg/day	0.050		
Ammonia	mg/Nm ³	8.8	--	IS 11255 (Part VI) 1999
	ppm v/v	12.7		
	Kg/day	0.020		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/12/328	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 23/12/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	CNA PLANT – 3 VENT
Stack Attached to	CNA PLANT – 3
Stack Dimension [mm]	75
Fuel Used	Process Stack
Date of Sample collection	21/12/2022
Time of Sampling [Hrs]	12:30
Volume of flue gas sampled [Lit. at 25°C]	39.2

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
NOx	mg/Nm ³	50.0	--	IS 11255 (Part VII) 2005
	ppm	26.6		
	Kg/day	0.090		
Ammonia	mg/Nm ³	11.5	--	IS 11255 (Part VI) 1999
	ppm v/v	16.5		
	Kg/day	0.021		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/12/52	Test Report Date	12/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	08/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	09/12/2022 To 10/12/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-7
Stack Attached to	HRSG – 2
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	08/12/2022
Time of Sampling [Hrs.]	17:50
Temperature of flue gas [°C]	148
Average flue gas velocity [m/s]	13.0
Average volume of flue gas discharged [Nm ³ /hr]	58548

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	0.9	10.0	IS 11255 (Part I) 1985
	Kg/day	1.26		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	121.4		
	ppm v/v	64.6		
CO	Kg/day	170.63	---	APHA Edition II-134
	mg/Nm ³	29.8		
	ppm	26.0		
	Kg/day	41.85		

End

For GADARK LAB PVT. LTD.

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[KAILAS V. CHITALKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/12/53	Test Report Date	12/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	08/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	09/12/2022 To 10/12/2022

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-5
Stack Attached to	Boiler D
Stack Dimension [mm]	2500
Stack Height [Meters]	63
Date of Sample collection	08/12/2022
Time of Sampling [Hrs.]	15:50
Temperature of flue gas [°C]	97
Average flue gas velocity [m/s]	5.0
Average volume of flue gas discharged [Nm ³ /hr]	71529

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	1.1	10.0	IS 11255 (Part I) 1985
	Kg/day	1.89		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	17.9		
	ppm v/v	9.5		
CO	Kg/day	30.66	---	APHA Edition II-134
	mg/Nm ³	14.8		
	ppm	12.9		
	Kg/day	25.37		

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/01/287	Test Report Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 2
Sampling Done By	GLPL	Sample Received on	17/01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/01/2023 To 19/01/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-2
Stack Attached to	WNA – III Plant
Stack Dimension [mm]	953
Fuel Used	Process Stack
Date of Sample collection	17/01/2023
Time of Sampling [Hrs]	11:10
Temperature of flue gas [°C]	121
Average flue gas velocity [m/s]	28.8
Average volume of flue gas discharged [Nm ³ /hr]	55846

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
NO ₂	mg/Nm ³	228.6	400.0	IS 11255 (Part VII) 2005
	ppm	121.6		
	Kg/day	307.51		
Ammonia	mg/Nm ³	22.0	Not Specified	IS 11255 (Part VI) 1999
	ppm v/v	31.7		
	Kg/day	29.53		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/01/287	Test Report Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	2 of 2
Sampling Done By	GLPL	Sample Received on	17/01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/01/2023 To 19/01/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-2
Stack Attached to	WNA - III Plant
Stack Dimension [mm]	953
Fuel Used	Process Stack
Date of Sample collection	17/01/2023
Time of Sampling [Hrs]	11:10
Temperature of flue gas [°C]	121
Average flue gas velocity [m/s]	28.8
Average volume of flue gas discharged [Nm ³ /hr]	55846

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	2.6	Not Specified	IS 11255 (Part I) 1985
	Kg/day	3.48		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/02/101	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/2023 To 13/02/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-5
Stack Attached to	Boiler D
Stack Dimension [mm]	2500
Stack Height [Meters]	63
Date of Sample collection	09/02/2023
Time of Sampling [Hrs.]	14:25
Temperature of flue gas [°C]	107
Average flue gas velocity [m/s]	3.9
Average volume of flue gas discharged [Nm ³ /hr]	54054

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	4.2	10.0	IS 11255 (Part I) 1985
	Kg/day	5.45		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	15.5		
	ppm v/v	8.3		
CO	Kg/day	20.15	---	APHA Edition II-134
	mg/Nm ³	16.0		
	ppm	14.0		
	Kg/day	20.81		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/02/98	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/2023 To 13/02/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-6
Stack Attached to	HRSG – 1
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	10/02/2023
Time of Sampling [Hrs.]	11:05
Temperature of flue gas [°C]	157
Average flue gas velocity [m/s]	12.5
Average volume of flue gas discharged [Nm ³ /hr]	55228

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	2.1	10.0	IS 11255 (Part I) 1985
	Kg/day	2.78		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	16.1		
	ppm v/v	8.5		
CO	Kg/day	21.30	---	APHA Edition II-134
	mg/Nm ³	18.9		
	ppm	16.5		
	Kg/day	25.05		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/02/99	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/2023 To 13/02/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-7
Stack Attached to	HRSG – 2
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	09/02/2023
Time of Sampling [Hrs.]	15:20
Temperature of flue gas [°C]	187
Average flue gas velocity [m/s]	14.6
Average volume of flue gas discharged [Nm ³ /hr]	59973

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	1.6	10.0	IS 11255 (Part I) 1985
	Kg/day	2.30		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	108.9		
	ppm v/v	58.0		
CO	Kg/day	156.79	---	APHA Edition II-134
	mg/Nm ³	32.1		
	ppm	28.0		
	Kg/day	46.17		

End

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TEST REPORT

Doc.No : GLPL/QF7.8/02

Test Report No.	GA/23/02/100	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF7.3/06	Analysis Period	11/02/2023 To 13/02/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-8
Stack Attached to	HRSG – 5
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	10/02/2023
Time of Sampling [Hrs.]	10:00
Temperature of flue gas [°C]	108
Average flue gas velocity [m/s]	13.9
Average volume of flue gas discharged [Nm ³ /hr]	69299

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	2.3	10.0	IS 11255 (Part I) 1985
	Kg/day	3.83		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	144.6	350.0	IS 11255 (Part VII) 2005
	ppm v/v	77.0		
	Kg/day	240.57		
CO	mg/Nm ³	28.6	---	APHA Edition II-134
	ppm	25.0		
	Kg/day	47.63		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/DF/0332/23	Test Report Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	09/03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/2023 To 11/03/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	CNA PLANT – 1 VENT
Stack Attached to	CNA PLANT – 1
Stack Dimension [mm]	75
Fuel Used	Process Stack
Date of Sample collection	06/03/2023
Time of Sampling [Hrs]	15:30
Volume of flue gas sampled [Lit. at 25°C]	39.0

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
NOx	mg/Nm ³	34.8	--	IS 11255 (Part VII) 2005
	ppm	18.5		
	Kg/day	0.07		
Ammonia	mg/Nm ³	13.3	--	IS 11255 (Part VI) 1999
	ppm v/v	19.1		
	Kg/day	0.03		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/DF/0333/23	Test Report Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	09/03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/2023 To 11/03/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	CNA PLANT – 2 VENT
Stack Attached to	CNA PLANT – 2
Stack Dimension [mm]	75
Fuel Used	Process Stack
Date of Sample collection	06/03/2023
Time of Sampling [Hrs]	16:10
Volume of flue gas sampled [Lit. at 25°C]	39.0

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
NOx	mg/Nm ³	31.4	--	IS 11255 (Part VII) 2005
	ppm	16.7		
	Kg/day	0.05		
Ammonia	mg/Nm ³	11.5	--	IS 11255 (Part VI) 1999
	ppm v/v	16.6		
	Kg/day	0.02		

End

For **GADARK LAB PVT. LTD.**

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/DF/0334/23	Test Report Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	09/03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/2023 To 11/03/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	CNA PLANT – 3 VENT
Stack Attached to	CNA PLANT – 3
Stack Dimension [mm]	75
Fuel Used	Process Stack
Date of Sample collection	08/03/2023
Time of Sampling [Hrs]	12:00
Volume of flue gas sampled [Lit. at 25°C]	38.8

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
NOx	mg/Nm ³	42.9	--	IS 11255 (Part VII) 2005
	ppm	22.8		
	Kg/day	0.08		
Ammonia	mg/Nm ³	13.4	--	IS 11255 (Part VI) 1999
	ppm v/v	19.2		
	Kg/day	0.02		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/10/197	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date		Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	13/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/2022 To 19/10/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	11/10/2022				
Time of Sampling [Hrs]	Duration of Sampling [Hrs]	Ambient Temperature [°C]		Relative Humidity [%]	
		Min.	Max.	Min.	Max.
11:00	24	20	30	45	85

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	59.97	100.0	IS 5182 (Part XXII) 2006
PM _{2.5}	µg/m ³	28.63	60.0	USEPA FEM, 40 CFR Part 50, Appendix L, 2014-2019
SO ₂	µg/m ³	33.57	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	39.10	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.21	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	14.56	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	17.79	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	10.89	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
[SACHIN B. GAONKAR]

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Note :

1. The results relate only to the samples tested.
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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. Kodal, Taluka - Kodal, District - Sindhudurg - 416 525.
Tel.: (02362) 223519 • E-mail: info@gadark.in • Website: www.gadark.in

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

TEST REPORT

Doc.No.: GLPL/QF/7 8/03

Test Report No.	GA/22/10/198	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	13/10/2022
Sampling Plan	GLPL/QF/7.3/05	Analysis Period	14/10/2022 To 19/10/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	11/10/2022				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:30	24	20	30	45	85

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	55.83	100.0	IS 5182 (Part XXII) 2006
PM _{2.5}	µg/m ³	27.91	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.76	80.0	IS 5182 (Part V) 2001
NO ₂	µg/m ³	36.14	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.14	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	12.88	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	17.54	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 XI) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	9.13	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 ₂	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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Tel. : (02382) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF : 15, Hindustan Kohnoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 40.
Tel : (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/10/199	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	13/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/2022 To 19/10/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	11/10/2022				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:15	24	20	30	45	85

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	61.71	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	30.55	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	26.48	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	35.32	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	0.10	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	7.84	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	15.96	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	5.70	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVI) 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
(SACHIN B. GAONKAR)

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

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

TEST REPORT

Doc.No : GLPL/QF/7 8/03

Test Report No.	GA/22/10/200	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	13/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/2022 To 19/10/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	11/10/2022				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:45	24	20	30	45	85

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	56.29	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	27.54	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.29	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	33.65	80.0	IS 5182 (Part VI) 2005
CO	mg/m ³	1.10	2.0 for 8 Hrs.	IS 5182 (Part X) 1996
Lead	µg/m ³	0.11	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	10.64	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	20.38	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	3.97	20.0	IS 5182 (Part XXI) 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
[SACHIN B. GAONKAR]

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

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/11/208	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 21/11/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	14/11/2022				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
10:40	24	25	33	50	78

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	62.65	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	31.91	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2018
SO ₂	µg/m ³	30.91	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	37.83	80.0	IS 5182 (Part VI) 2008
CO	mg/m ³	1.20	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	8.96	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	19.79	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) 2008
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	7.19	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 3228
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
[SACHIN B. GAONKAR]


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LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525
Tel.: (02302) 223519 • E-mail: info@gadark.in • Website: www.gadark.in

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

TEST REPORT

Doc.No: GLPL/QF/7.8/03

Test Report No.	GA/22/11/209	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/05	Analysis Period	15/11/2022 To 21/11/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	14/11/2022				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:30	24	25	33	50	78

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	59.57	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	30.00	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	30.15	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	37.32	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	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	14.00	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	17.17	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	9.26	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 REPORT

Doc.No : GLPL/QF7.8/03

Test Report No.	GA/22/11/210	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF7.3/06	Analysis Period	16/11/2022 To 21/11/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	14/11/2022				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity. [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
10:55	24	25	33	50	78

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	63.19	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.42	60.0	USEPA FEM, 40 CFR Part 55, Appendix-L, 2014-2016
SO ₂	µg/m ³	27.42	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	34.96	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.04	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	10.64	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	15.96	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	7.60	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

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End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/11/211	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	15/11/2022 To 21/11/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	14/11/2022				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
13:35	24	25	33	50	78

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	59.13	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	28.67	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	30.55	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.12	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	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	12.88	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	21.71	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
[SACHIN B. GAONKAR]

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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 7089 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/329	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 27/12/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	19/12/2022				
Time of Sampling [Hrs]	Duration of Sampling [Hrs]	Ambient Temperature [°C]		Relative Humidity [%]	
		Min.	Max.	Min.	Max.
10.50	24	24	32	41	70

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	65.89	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.51	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	32.72	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	38.66	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.16	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	7.07	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	22.04	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.


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OFF.: 15, Hindustani Kohinoor Industrial Complex, L.B.S. Marg, Vāhroli (West), Mumbai - 83.

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/330	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 27/12/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	19/12/2022				
Time of Sampling [Hrs]	Duration of Sampling [Hrs]	Ambient Temperature [°C]		Relative Humidity [%]	
		Min.	Max.	Min.	Max.
11.20	24	24	32	41	70

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.89	100.0	IS 5182 (Part XXII) 2005
PM _{2.5}	µg/m ³	33.68	60.0	USEPA FEM, 40 CFR Part 50, Appendix-1, 2014-2016
SO ₂	µg/m ³	28.36	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	35.98	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	0.11	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	11.05	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2018
Ammonia	µg/m ³	19.42	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2018
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	11.14	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVI) 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 3225
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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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/331	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 27/12/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	19/12/2022				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:05	24	24	32	41	70

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	62.37	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	32.46	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	30.44	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	35.71	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	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	8.40	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	20.71	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	9.95	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) 1961
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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/332	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 27/12/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	19/12/2022				
Time of Sampling [Hrs]	Duration of Sampling [Hrs]	Ambient Temperature [°C]		Relative Humidity [%]	
		Min.	Max.	Min.	Max.
12:05	24	24	32	41	70

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	63.71	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	32.89	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.74	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	34.68	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.21	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	10.16	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	19.50	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	11.23	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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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/333	Test Report Date	27/12/2022
Customer Name and Address	M/S, DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 27/12/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Main Gate (K-6)				
Date of Sampling	20/12/2022				
Time of Sampling	Duration of Sampling	Ambient Temperature (°C)		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
15.30	24	22	32	38	64

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	62.44	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	30.19	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	32.37	80.0	IS 5182 (Part 8) 2001
NO ₂	µg/m ³	39.41	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.24	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	5.74	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	16.67	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 XXI) 2004
Nickel	ng/m ³	10.23	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 3025
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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/01/291	Test Report Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/01/2023 To 23/01/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	16/01/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
10:30	24	17	31	45	80

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	63.24	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	31.59	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	29.37	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	35.19	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	9.55	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	20.83	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	8.48	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 REPORT

Doc.No : GLPL/QF7.8/03

Test Report No.	GA/23/01/292	Test Report Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/01/2023
Sampling Plan	GLPL/QF7.3/06	Analysis Period	18/01/2023 To 23/01/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	16/01/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:00	24	17	31	45	80

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	65.16	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	32.89	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2018
SO ₂	µg/m ³	30.21	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	38.46	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	0.12	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	12.21	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	17.71	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	13.52	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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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/01/293	Test Report Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/01/2023
Sampling Plan	GLPL/QF/7.3/08	Analysis Period	18/01/2023 To 23/01/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	16/01/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
10:45	24	17	31	45	80

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.43	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	29.75	60.0	USEPA FEM. 40 CFR Part 50, Appendix L, 2014-2016
SO ₂	µg/m ³	27.63	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.98	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.14	2.0 for 8 Hrs.	IS 5102 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	8.49	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	15.96	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	6.73	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 REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/01/294	Test Report Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/01/2023 To 23/01/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	16/01/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
14:00	24	17	31	45	60

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.72	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	30.64	80.0	USCPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	26.48	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.11	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.09	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.11	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	11.15	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	17.13	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 421 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	11.66	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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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No: GLPL/QF/7.8/03

Test Report No.	GA/23/02/102	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD, PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/2023 To 16/02/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	09/02/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
10:25	24	25	33	40	78

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	66.17	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	34.29	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	27.42	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.27	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	0.11	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	9.55	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	17.50	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	13.89	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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[SACHIN B. GAONKAR]

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/02/103	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/2023 To 16/02/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	09/02/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:20	24	26	33	40	78

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	67.25	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	34.57	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.73	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	40.15	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	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	10.09	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	21.71	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	15.11	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 3225
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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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/02/104	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/2023 To 16/02/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	09/02/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
10:40	24	26	33	40	78

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	63.66	100.0	IS 5182 (Part XXII) 2006
PM _{2.5}	µg/m ³	32.57	60.0	USEPA FEM, 40 CFR Part 60, Appendix-L, 2014-2016
SO ₂	µg/m ³	31.55	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	39.13	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	0.12	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	11.68	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	19.38	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	10.09	20.0	IS 5182 (Part XXI) 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

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For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/02/105	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD, PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/2023 To 16/02/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	09/02/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
13:30	24	26	33	40	78

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	63.65	100.0	IS 5182 (Part XXII) 2006
PM _{2.5}	µg/m ³	31.00	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	29.61	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	38.59	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.14	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	11.68	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 2 nd Edition, Method 411 2016
Ammonia	µg/m ³	22.00	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	13.14	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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/DF/0335/23	Test Report Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	09/03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/2023 To 15/03/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	06/03/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:10	24	25	36	35	65

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	62.57	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	31.83	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	30.19	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	38.23	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.02	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	12.21	100.0 for 8 Hrs.	ISO Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	20.75	400.0	ISO 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	11.06	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
[SACHIN B. GAONKAR]

CHECKED BY

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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/DF/0336/23	Test Report Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	09/03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/2023 To 15/03/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	06/03/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:25	24	26	36	35	65

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	65.98	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	36.21	60.0	USEPA FEM. 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	32.55	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	43.89	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	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	12.74	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	25.96	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	11.42	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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OFF: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.
Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/DF/0337/23	Test Report Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	09/03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/2023 To 15/03/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	06/03/2023				
Time of Sampling [Hrs]	Duration of Sampling [Hrs]	Ambient Temperature [°C]		Relative Humidity [%]	
		Min.	Max.	Min.	Max.
11:40	24	26	36	35	65


ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	65.13	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	34.29	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.65	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	37.51	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.21	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	10.09	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	18.79	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	11.46	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.


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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/DF/0338/23	Test Report Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	09/03/2023
Sampling Plan	GLPL/QF/7.3/08	Analysis Period	10/03/2023 To 15/03/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	05/03/2023				
Time of Sampling [Hrs]	Duration of Sampling [Hrs]	Ambient Temperature [°C]		Relative Humidity [%]	
		Min.	Max.	Min.	Max.
14:10	24	26	36	35	65

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	65.62	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.98	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	27.74	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	40.36	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.16	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.11	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	13.27	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	20.83	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	12.28	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 _x	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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/DF/0339/23	Test Report Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	09/03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/2023 To 15/03/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Main Gate (K-6)				
Date of Sampling	08/03/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
15:30	24	24	35	42	68

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	67.21	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.69	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	29.83	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	41.23	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.21	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	11.49	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	21.71	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	13.34	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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F. No. J-11011/218/2004- IA II (I)
Government of India
Ministry of Environment and Forests
(IA Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

E-mail: pb.rastogi@nic.in
Telefax : 011-24367668
Dated February 24, 2006

To,

✓ Shri S.C. Mehta
Managing Director
M/s Deepak Fertilizers & Petrochemicals Corpn. Ltd.
Plot No. 32, Sector – 16
Opp. Modern College, Vashi
Navi Mumbai – 400 705
Maharashtra.

Fax No. 022 – 2766 2620

Subject : Iso Propyl Alcohol (IPA, 70,000 MPTA) Project at MIDC Area, Talaja, Maharashtra by M/s Deepak Fertilizers & Petrochemicals Corporation Ltd.

Sir,

This has reference to your letter no. nil dated 8th June, 2005 alongwith EIA/EMP report and other related projects documents on the above subject seeking environmental clearance under the Environmental Impact Assessment Notification, 1994.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that the proposal is for environmental clearance to set up an Iso Propyl Alcohol manufacturing unit (70,000 MTPA) adjacent to existing plants in MIDC area, District Talaja, Maharashtra. 33,000 MTPA propane will be generated as by product. The project will be located in the industrial area of Talaja in 30.3492 ha. Iso Propyl Alcohol will be produced by direct hydration of Propylene across a catalyst bed. Air emissions from the boiler will be controlled by installing a stack of adequate height as per CPCB norms. 2,800 m³/d water will be required and will be met from MIDC supply for which prior permission has been obtained. The process effluent will be treated in ETP and will be sent to Common Effluent Treatment Plant (CETP) for further treatment at Talaja. Solid waste will be generated in the form of spent catalyst (Silica gel impregnated with Phosphoric acid) & used oil and will be sold to authorized reproprocessors. Public hearing meeting was held on 18th October, 2005. 'NOC' has been accorded by the Maharashtra Pollution Control Board (MPCB) vide letter no. BO/RONM/65-05/E/CC/103 dated 25.04.2005. Total cost of the project is Rs. 153.7 Crores.

3.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under EIA Notification dated 27th January, 1994 as amended subsequently subject to strict compliance to the following conditions:

A. SPECIFIC CONDITIONS :

- i) The gaseous emissions (SO_2 , NO_x , NH_3 & HCl) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. The stack height shall be as per the Central Pollution Control Board guidelines. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Further, the company shall interlock the production system with the pollution control devices.
- ii) Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the MPCB.
- iii) The fugitive emissions in the work zone environment, product, raw material storage area shall be regularly monitored. The emissions shall be controlled and conform to the limits prescribed by the CPCB.
- iv) Total water requirement shall not exceed 2,800 m^3/d as per the permission accorded by the MIDC vide letters dated 3.3.04 and 7.7.05. Further efforts shall be made for further conservation of water and utilization of waste water.
- v) The effluent generation shall not exceed 667 m^3/d . All the effluent shall be treated in the augmented Effluent Treatment Plant (ETP) and shall be monitored for the pH, SS, TDS, Oil & Grease, BOD, COD, Phosphates and Ammonical Nitrogen and other relevant parameters. All the treated effluent shall be sent to CETP at Taloja for further treatment. The domestic effluent shall be treated in the existing Sewage Treatment Plant (STP).
- vi) The company shall undertake following Waste Minimization measures :-
 - Metering and control of quantities of active ingredients to minimize waste.
 - Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - Use of automated filling to minimize spillage.
 - Use of "Close Feed" system into batch reactors.
 - Venting equipment through vapour recovery system.
 - Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- vii) The solid waste generated in the form ETP sludge shall be stored in the HDPE-lined secured landfill at the site. Spent catalyst and used oil shall be sold to authorized reprocessors.
- viii) The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000 and Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collection/treatment/storage/disposal of hazardous wastes.

- ix) The company shall develop surface/roof top rain water harvesting structures to harvest the run off water for recharge of ground water.
- x) Green belt shall be provided in at least 25 % of the plant area to mitigate the effects of fugitive emissions all around the plant. Development of green belt shall be as per the Central Pollution Control Board guidelines.
- xi) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

B. GENERAL CONDITIONS

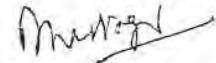
- i. The project authorities shall strictly adhere to the stipulations made by the Maharashtra Pollution Control Board (MPCB).
- ii. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
- iii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this 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 measures required, if any.
- iv. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- v. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.
- vi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- vii. The project authorities shall earmark separate funds of Rs. 25.80 Lakhs to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- viii. The company shall undertake welfare measures and community development measures for the local people in the vicinity of the project area.

- ix. The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office at Bhopal / MPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.
- x. The project proponent 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 MPCB and may also be seen at Website of the Ministry at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Ministry's Regional Office at Bhopal.
- xi. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

4.0. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

5.0. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

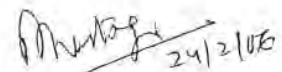
6.0. The above conditions will be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.



(Dr. P.B. RASTOGI)
Additional Director

Copy to:

1. The Secretary, Department of Environment and Forests, Govt. of Maharashtra, Mumbai - 400 001, Maharashtra.
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Link Road No.3, E - 5, Arera Colony, Bhopal - 462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman Maharashtra Pollution Control Board, Shri Chatrapati Shivaji Maharaj Municipal Market Building, 4th Floor, Mata Ramabai Ambedaker Road, Mumbai - 400 001, Maharashtra.
5. Joint Secretary (CCI-I) Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File.
8. Monitoring File.
9. Record File.



(Dr. P.B. RASTOGI)
Additional Director



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/334	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 23/12/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	19/12/2022
Time of Sampling [Hrs.]	13:45
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	24
Ambient Temperature [°C] [Max]	32
Relative Humidity [%] [Min]	41
Relative Humidity [%] [Max]	78

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.098	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.027	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.037	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.83	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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Note :

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



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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/335	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 23/12/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	19/12/2022
Time of Sampling [Hrs.]	11:35
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	24
Ambient Temperature [°C] [Max]	32
Relative Humidity [%] [Min]	41
Relative Humidity [%] [Max]	78

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.066	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.030	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.039	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.75	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/336	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/2022 To 23/12/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	19/12/2022
Time of Sampling [Hrs.]	11:45
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	24
Ambient Temperature [°C] [Max]	32
Relative Humidity [%] [Min]	41
Relative Humidity [%] [Max]	78

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.074	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.024	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.033	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.68	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/02/106	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/2023 To 13/02/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	09/02/2023
Time of Sampling [Hrs.]	13:15
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	21
Ambient Temperature [°C] [Max]	33
Relative Humidity [%] [Min]	39
Relative Humidity [%] [Max]	78

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.091	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.027	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.039	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.62	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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[SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/02/107	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/2023 To 13/02/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	09/02/2023
Time of Sampling [Hrs.]	11:05
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	21
Ambient Temperature [°C] [Max]	33
Relative Humidity [%] [Min]	39
Relative Humidity [%] [Max]	78

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.068	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.033	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.044	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.68	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/02/108	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	10/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/2023 To 13/02/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	09/02/2023
Time of Sampling [Hrs.]	10:55
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	21
Ambient Temperature [°C] [Max]	33
Relative Humidity [%] [Min]	39
Relative Humidity [%] [Max]	78

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.080	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.029	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.041	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.78	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/01/295	Test Report Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/01/2023 To 19/01/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	16/01/2023
Time of Sampling [Hrs.]	13:25
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	19
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	43
Relative Humidity [%] [Max]	82

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.087	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.025	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.038	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.69	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]**

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/01/296	Test Report Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/01/2023 To 19/01/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	16/01/2023
Time of Sampling [Hrs.]	11:15
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	19
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	43
Relative Humidity [%] [Max]	82

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.071	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.032	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.040	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.84	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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[KAILAS V. CHITALKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/01/297	Test Report Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	-	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/01/2023 To 19/01/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	16/01/2023
Time of Sampling [Hrs.]	11:30
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	19
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	43
Relative Humidity [%] [Max]	82

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.085	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.027	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.036	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.62	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/11/212	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	14/11/2022
Time of Sampling [Hrs.]	13:15
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	22
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	43
Relative Humidity [%] [Max]	82

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.083	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.030	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.038	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.90	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/11/213	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	14/11/2022
Time of Sampling [Hrs.]	11:05
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	22
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	43
Relative Humidity [%] [Max]	82

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.070	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.033	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.041	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.88	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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Notes :

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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/11/214	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/2022 To 17/11/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	14/11/2022
Time of Sampling [Hrs.]	11:15
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	22
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	43
Relative Humidity [%] [Max]	82

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.065	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.026	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.035	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.73	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/10/202	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	13/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/2022 To 15/10/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	12/10/2022
Time of Sampling [Hrs.]	10:20
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	22
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	42
Relative Humidity [%] [Max]	84

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.072	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.034	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.040	6.0	IS 5182 (Part VI) 2005
CO	mg/m ³	0.88	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
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Tel. : (02362) 223518 • E-mail : info@gadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/10/201	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	13/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/2022 To 15/10/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	12/10/2022
Time of Sampling [Hrs.]	12:45
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	22
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	42
Relative Humidity [%] [Max]	84

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.078	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.032	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.038	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.83	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/10/203	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	13/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/2022 To 15/10/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	12/10/2022
Time of Sampling [Hrs.]	10:35
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	22
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	42
Relative Humidity [%] [Max]	64

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.083	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.027	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.035	6.0	IS 5182 (Part VI) 2005
CO	mg/m ³	0.73	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/09/325	Test Report Date	27/09/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/09/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/09/2022 To 23/09/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	19/09/2022
Time of Sampling [Hrs.]	13:25
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	21
Ambient Temperature [°C] [Max]	28
Relative Humidity [%] [Min]	42
Relative Humidity [%] [Max]	80

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.072	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.027	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.033	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.84	55.0	IS 5182 (Part X) 1989

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/09/326	Test Report Date	27/09/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/09/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/09/2022 To 23/09/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	19/09/2022
Time of Sampling [Hrs.]	11:10
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	21
Ambient Temperature [°C] [Max]	28
Relative Humidity [%] [Min]	42
Relative Humidity [%] [Max]	80

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.066	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.031	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.035	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.75	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPU/QF/7.8/03

Test Report No.	GA/22/09/327	Test Report Date	27/09/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD, PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	-	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	21/09/2022
Sampling Plan	GLPU/QF/7.3/06	Analysis Period	22/09/2022 To 23/09/2022

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	19/09/2022
Time of Sampling [Hrs.]	11:20
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	21
Ambient Temperature [°C] [Max]	28
Relative Humidity [%] [Min]	42
Relative Humidity [%] [Max]	80

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.069	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.029	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.037	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.80	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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ANNEXURE: Environmental Monitoring

1. Effluent Monitoring Details

Environment Monitoring FY 2022-23															
I. Effluent (By MOEF&CC approved Lab) :															
Parameters/Months	Limit	UOM	Apr-22	22-May	Jun-22	22-Jul	Aug-22	22-Sep	Oct-22	22-Nov	Dec-22	Jan-23	Feb-23	23-Mar	Average
pH	6.5 To 8.5	--	7.82	7.9	7.56	7.5	8.15	7.43	8.35	8.03	7.31	7.22	7.54	7.74	7.71
COD	250	mg/lit	48	70	44	95	79	40	25	73	54	146	106	99	73.25
BOD 3 days 27°C	100	mg/lit	12	16	17	25	15	12	8	23	19	49	37	35	22.33
Total Suspended Solids	100	mg/lit	22	15	26	37	32	45	10	10	16	12	42	27	24.50
TDS	2100	mg/lit	1994	1982	1534	1218	1736	812	1328	2065	1870	1639	963	1263	1533.67
Oil & Grease	10	mg/lit	0.1	0.2	0.1	0.1	BDL	BDL	<0.1	<0.1	<0.1	<0.1	<0.1	1	0.30
Dissolved Phosphate as P	5	mg/lit	0.26	0.6	0.14	0.08	0.4	1.18	1.18	0.16	0.18	0.2	0.18	1.22	0.48
Ammonical Nitrogen as N	50	mg/lit	17.25	18.48	16.8	14.56	15.2	5.2	38.64	23.24	22.4	28.84	27.54	32.7	21.74
Free Ammonical Nitrogen as N	4	mg/lit	0.668	0.85	0.39	0.29	0.64	0.64	0.88	0.2	0.24	0.26	0.24	0.32	0.47
Nitrate Nitrogen as N	20	mg/lit	9.52	12.6	9.2	8	10.2	2.12	6.16	8.12	16.8	7.28	8.1	2.18	8.36
Fluoride as F	10	mg/lit	BDL	BDL	BDL	BDL	BDL	BDL	<0.001	BDL	BDL	BDL	BDL	BDL	BDL
Total Kjeldhal Nitrogen (TKN) as N	75	mg/lit	38.9	32.93	26.88	24.64	27.4	9.96	44.8	31.36	39.2	36.12	32.14	11.42	29.65



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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/22/2932	Report Date	19/10/2022
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/22/2932	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL 13/10/2022	Sample Received on	14/10/2022
Sample Submitted by	GLPL	Analysis Period	14/10/2022 To 19/10/2022
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	8.35	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	25	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	8.0	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	10	100	APHA 2540 D
TDS	mg/ltr	1328	2100	APHA 2540 C
Oil & Grease	mg/ltr	< 0.1	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	1.18	5	APHA 4500 P – D
Ammonical Nitrogen as N	mg/ltr	38.64	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.88	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	6.16	20	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	< 0.001	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	44.8	75	APHA 4500 N ^{org} B

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

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Note:

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/22/2932	Report Date	19/10/2022
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/22/2932	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL 13/10/2022	Sample Received on	14/10/2022
Sample Submitted by	GLPL	Analysis Period	14/10/2022 To 19/10/2022
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Total Cyanide as CN	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	Nil	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Hexavalent Chromium as Cr +6	mg/ltr	BDL	-	APHA 3500 Cr B
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Arsenic as As	mg/ltr	BDL	-	APHA 3112 B
Cadmium	mg/ltr	BDL	-	APHA 3112 B
Copper	mg/ltr	BDL	-	APHA 3112 B
Iron	mg/ltr	BDL	-	APHA 3112 B
Lead	mg/ltr	BDL	-	APHA 3112 B
Nickel	mg/ltr	BDL	-	APHA 3112 B
Zinc	mg/ltr	BDL	-	APHA 3112 B
Phenols	mg/ltr	BDL	-	APHA 5530 D
Free Cyanide	mg/ltr	BDL	-	APHA 4500 E
Phosphorus	mg/ltr	BDL	-	APHA 4500 P
Temperature	° C	27	-	APHA 2550

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/22/3611	Report Date	26/12/2022
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/22/3611	Page No.	1 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 21/12/2022	Sample Received on	22/12/2022
Sample Submitted by	GLPL	Analysis Period	22/12/2022 To 26/12/2022
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	7.31	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	54	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	19	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	16	100	APHA 2540 D
TDS	mg/ltr	1870	2100	APHA 2540 C
Oil & Grease	mg/ltr	<0.1	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	0.18	5	APHA 4500 P – D
Ammonical Nitrogen as N	mg/ltr	22.40	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.24	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	16.80	20	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	BDL	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	39.20	75	APHA 4500 N ^{org} B
Cyanide as CN	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	BDL	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Hexavalent Chromium as Cr +6	mg/ltr	BDL	-	APHA 3500 Cr B
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Arsenic as As	mg/ltr	BDL	-	APHA 3112 B
Total Cyanide free	mg/ltr	BDL	-	APHA 4500 E

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/22/3611	Report Date	26/12/2022
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/22/3611	Page No.	1 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 21/12/2022	Sample Received on	22/12/2022
Sample Submitted by	GLPL	Analysis Period	22/12/2022 To 26/12/2022
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
Temperature	°C	27	-	APHA 2550
Total Cadmium	mg/ltr	BDL	-	APHA 3112 B
Copper	mg/ltr	BDL	-	APHA 3112 B
Iron	mg/ltr	BDL	-	APHA 3112 B
Lead	mg/ltr	BDL	-	APHA 3112 B
Nickel	mg/ltr	BDL	-	APHA 3112 B
Zinc	mg/ltr	BDL	-	APHA 3112 B
Phenol	mg/ltr	BDL	-	IS 3025 Part 43
Phosphate	mg/ltr	BDL	-	APHA 4500 P - D

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/0194	Report Date	23/01/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/0194	Page No.	1 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 18/01/2023	Sample Received on	19/01/2023
Sample Submitted by	GLPL	Analysis Period	19/01/2023 To 23/01/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	7.22	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	146	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	49	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	12	100	APHA 2540 D
TDS	mg/ltr	1639	2100	APHA 2540 C
Oil & Grease	mg/ltr	<0.1	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	0.20	5	APHA 4500 P - D
Ammonical Nitrogen as N	mg/ltr	28.84	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.26	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	7.28	20	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	BDL	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	36.12	75	APHA 4500 N ^{org} B
Cyanide as CN	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	BDL	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Hexavalent Chromium as Cr *6	mg/ltr	BDL	-	APHA 3500 Cr B
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Arsenic as As	mg/ltr	BDL	-	APHA 3112 B
Total Cyanide free	mg/ltr	BDL	-	APHA 4500 E

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/0194	Report Date	23/01/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/0194	Page No.	1 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 18/01/2023	Sample Received on	19/01/2023
Sample Submitted by	GLPL	Analysis Period	19/01/2023 To 23/01/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
Temperature	°C	27	-	APHA 2550
Total Cadmium	mg/ltr	BDL	-	APHA 3112 B
Copper	mg/ltr	BDL	-	APHA 3112 B
Iron	mg/ltr	BDL	-	APHA 3112 B
Lead	mg/ltr	BDL	-	APHA 3112 B
Nickel	mg/ltr	BDL	-	APHA 3112 B
Zinc	mg/ltr	BDL	-	APHA 3112 B
Phenol	mg/ltr	BDL	-	IS 3025 Part 43
Phosphate	mg/ltr	BDL	-	APHA 4500 P - D

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/0194	Report Date	23/01/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/0194	Page No.	1 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 18/01/2023	Sample Received on	19/01/2023
Sample Submitted by	GLPL	Analysis Period	19/01/2023 To 23/01/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	7.22	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	146	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	49	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	12	100	APHA 2540 D
TDS	mg/ltr	1639	2100	APHA 2540 C
Oil & Grease	mg/ltr	<0.1	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	0.20	5	APHA 4500 P - D
Ammonical Nitrogen as N	mg/ltr	28.84	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.26	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	7.28	20	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	BDL	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	36.12	75	APHA 4500 N ^{org} B
Cyanide as CN	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	BDL	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Hexavalent Chromium as Cr *6	mg/ltr	BDL	-	APHA 3500 Cr B
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Arsenic as As	mg/ltr	BDL	-	APHA 3112 B
Total Cyanide free	mg/ltr	BDL	-	APHA 4500 E

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/0194	Report Date	23/01/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/0194	Page No.	1 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 18/01/2023	Sample Received on	19/01/2023
Sample Submitted by	GLPL	Analysis Period	19/01/2023 To 23/01/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
Temperature	°C	27	-	APHA 2550
Total Cadmium	mg/ltr	BDL	-	APHA 3112 B
Copper	mg/ltr	BDL	-	APHA 3112 B
Iron	mg/ltr	BDL	-	APHA 3112 B
Lead	mg/ltr	BDL	-	APHA 3112 B
Nickel	mg/ltr	BDL	-	APHA 3112 B
Zinc	mg/ltr	BDL	-	APHA 3112 B
Phenol	mg/ltr	BDL	-	IS 3025 Part 43
Phosphate	mg/ltr	BDL	-	APHA 4500 P - D

End

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/22/3273	Report Date	22/11/2022
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/22/3273	Page No.	1 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 16/11/2022	Sample Received on	17/11/2022
Sample Submitted by	GLPL	Analysis Period	17/11/2022 To 22/11/2022
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	8.03	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	73	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	23	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	10	100	APHA 2540 D
TDS	mg/ltr	2065	2100	APHA 2540 C
Oil & Grease	mg/ltr	<0.1	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	0.16	5	APHA 4500 P - D
Ammonical Nitrogen as N	mg/ltr	23.24	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.20	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	8.12	20	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	BDL	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	31.36	75	APHA 4500 N ^{org} B
Cyanide as CN	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	BDL	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Hexavalent Chromium as Cr +6	mg/ltr	BDL	-	APHA 3500 Cr B
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Arsenic as As	mg/ltr	BDL	-	APHA 3112 B
Total Cyanide free	mg/ltr	BDL	-	APHA 4500 E

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/22/3273	Report Date	22/11/2022
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/22/3273	Page No.	2 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 16/11/2022	Sample Received on	17/11/2022
Sample Submitted by	GLPL	Analysis Period	17/11/2022 To 22/11/2022
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
Temperature	°C	30	-	
Total Cadmium	mg/ltr	BDL	-	APHA 3112 B
Copper	mg/ltr	BDL	-	APHA 3112 B
Iron	mg/ltr	BDL	-	APHA 3112 B
Lead	mg/ltr	BDL	-	APHA 3112 B
Nickel	mg/ltr	BDL	-	APHA 3112 B
Zinc	mg/ltr	BDL	-	APHA 3112 B
Phenol	mg/ltr	BDL	-	IS 3025 Part 43
Phosphate	mg/ltr	BDL	-	APHA 4500 P - D

End

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/0452	Report Date	17/02/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/0452	Page No.	1 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 13/02/2023	Sample Received on	14/02/2023
Sample Submitted by	GLPL	Analysis Period	14/02/2023 To 17/02/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	7.54	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	106	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	37	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	42	100	APHA 2540 D
TDS	mg/ltr	963	2100	APHA 2540 C
Oil & Grease	mg/ltr	<0.1	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	0.18	5	APHA 4500 P – D
Ammonical Nitrogen as N	mg/ltr	27.54	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.24	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	8.10	20	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	BDL	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	32.14	75	APHA 4500 N ^{org} B
Cyanide as CN	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	BDL	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Hexavalent Chromium as Cr *6	mg/ltr	BDL	-	APHA 3500 Cr B
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Arsenic as As	mg/ltr	BDL	-	APHA 3112 B
Total Cyanide free	mg/ltr	BDL	-	APHA 4500 E

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

Note:

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3. Samples will be preserved for a period 15 days from the delivery of Test Certificate.
4. Customer complaint register is available at laboratory.

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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/0452	Report Date	17/02/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/0452	Page No.	2 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 13/02/2023	Sample Received on	14/02/2023
Sample Submitted by	GLPL	Analysis Period	14/02/2023 To 17/02/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
Temperature	°C	29	-	
Total Cadmium	mg/ltr	BDL	-	APHA 3112 B
Copper	mg/ltr	BDL	-	APHA 3112 B
Iron	mg/ltr	BDL	-	APHA 3112 B
Lead	mg/ltr	BDL	-	APHA 3112 B
Nickel	mg/ltr	BDL	-	APHA 3112 B
Zinc	mg/ltr	BDL	-	APHA 3112 B
Phenol	mg/ltr	BDL	-	IS 3025 Part 43
Phosphate	mg/ltr	BDL	-	APHA 4500 P – D

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/0733	Report Date	16/03/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/0733	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 10/03/2023	Sample Received on	11/03/2023
Sample Submitted by	GLPL	Analysis Period	11/03/2023 To 16/03/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	7.74	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	99	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	35	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	27	100	APHA 2540 D
TDS	mg/ltr	1263	2100	APHA 2540 C
Oil & Grease	mg/ltr	1.0	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	1.22	5	APHA 4500 P – D
Ammoniacal Nitrogen as N	mg/ltr	32.70	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.32	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	2.18	20	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	BDL	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	11.42	75	APHA 4500 N ^{org} B
Iron	mg/ltr	0.320	3.0	APHA 3111 B
Nickel	mg/ltr	0.425	3.0	APHA 3111 B
Zinc	mg/ltr	0.300	5.0	APHA 3111 B
Copper	mg/ltr	0.205	3.0	APHA 3111 B
Cadmium	mg/ltr	0.228	2.0	APHA 3111 B
Lead	mg/ltr	0.465	1.0	APHA 3111 B
Hexavalent Chromium as Cr+6	mg/ltr	< 0.001	2.0	APHA 3500 Cr B
Temperature	°C	27	-	APHA 2550
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Phenols	mg/ltr	BDL	-	APHA 5530 D

Contd...2/..



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GADARK LAB PVT. LTD.

∴ 2 ∴

Phosphorus	mg/ltr	BDL	-	APHA 4500 P
Total Cyanide as CN	mg/ltr	BDL	-	APHA 4500 E
Free Cyanide	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	Nil	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Arsenic	mg/ltr	BDL	-	APHA 3112 B

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

CHECKED BY

Note:

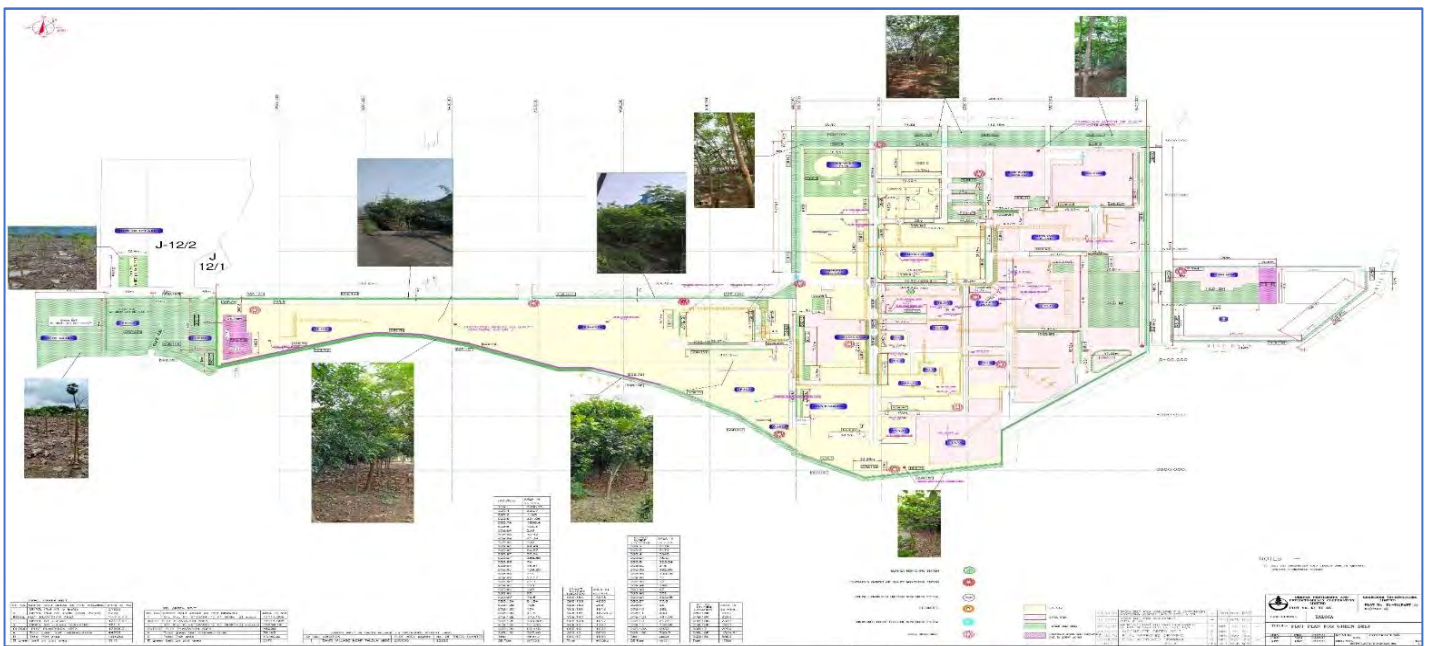
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Green Belt statement development :

EC Condition : Green belt shall be provided in at least 25% of the plant area to mitigate the effects of fugitive emission all around the plant. Development of green belt shall be as per CPCB guidelines.

Compliance : Complied. 33.14 % of plot area is developed as Green belt. In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhavdi Village which is located near Dombivali which approximately 15 kms away from our site.

Details of Green belt			
S.N.	Details	UOM	Area
1	Total Plot area	Sqm	135420
	Total green Belt (Inside)	Sqm	27056.63
	Total green Belt (Peripheral)	Sqm	17809.21
2	Total Green Belt	Sqm	44866
3	% of green belt on plot area	%	33.13



Green belt peripheral of the factory premises :



4.Green belt inside the factory premises :



Green belt development at near to the factory on MIDC Land acquired from MIDC :



Green belt additional land (Afforestation & Green belt Development):



(Afforestation)

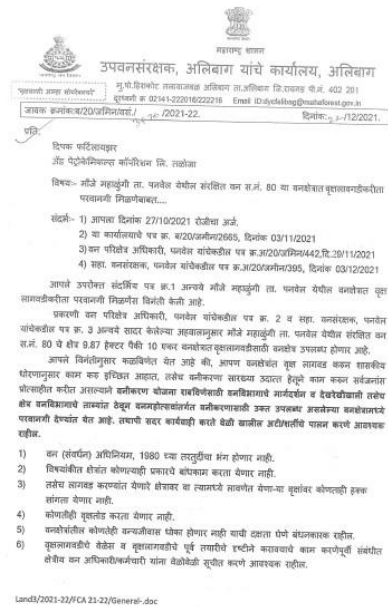


Green belt Development
(With Kalyan forest dept).



M/s A K Rural Development trust has been engaged to plant 22220 trees (20 HA) and maintain them for 7 years with total PO value of Rs. 1.82 crores (Plantation Rs. 0.33 Cr, Maintenance Rs. 1.49 Cr). The project agreement is valid from 27th June, 2017 to 26th June, 2024. It is located at Dhavdi village.

MIDC/Forest Dept Permission Green Belt Development outside Plant





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

TEST REPORT

Doc.No : GLPL/QF/7.8/04

Test Report No.	GA/22/10/204	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	11/10/2022
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 11:05 HRS.	NIGHT TIME 22:35 HRS.
01	Near Methanol Gate Area	61.2	56.2
02	Near IPA gate Area	72.8	68.1
03	Near WNA III Area	72.6	67.4
04	Near GT - II Area	69.3	66.8
05	Near Utility Area	73.4	67.3
06	Near Time Office Area	58.1	55.2
07	Near Acid Tank Area	62.7	58.2
08	K-6 Plant - Near Main Gate	57.4	51.9
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/05

Test Report No.	GA/22/10/205	Test Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

NOISE LEVEL MEASUREMENT :

Date of Measurement	14/10/2022
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	Sampling Location	Time of Measurement	Average Noise Level Measurement in dB(A)
	0.5 Meter Away from D.G. Set	(Hrs.)	Acoustic Door Closed
1	Near IPA Plant D. G. Set (200 KVA)	14:10	73.0
2	Near Methanol Plant D. G. Set (1000 KVA)	11:45	73.9
3	D. G. Set (20 KVA)	15:15	69.3

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/04

Test Report No.	GA/22/11/215	Test Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	14/11/2022
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 10:35 HRS.	NIGHT TIME 22:30 HRS.
01	Near Methanol Gate Area	60.6	56.2
02	Near IPA gate Area	72.3	66.7
03	Near WNA III Area	72.0	68.1
04	Near GT - II Area	71.4	67.0
05	Near Utility Area	73.8	68.3
06	Near Time Office Area	60.0	55.2
07	Near Acid Tank Area	64.2	57.4
08	K-6 Plant - Near Main Gate	58.9	51.9
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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TEST REPORT

Doc No : GLPL/QF/7.8/04

Test Report No.	GA/22/12/337	Test Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	19/12/2022
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 10:55 HRS.	NIGHT TIME 22:30 HRS.
01	Near Methanol Gate Area	61.0	55.2
02	Near IPA gate Area	73.0	67.9
03	Near WNA III Area	71.6	67.2
04	Near GT - II Area	72.1	66.8
05	Near Utility Area	73.2	67.9
06	Near Time Office Area	61.6	53.8
07	Near Store Area	58.2	50.6
08	Near Acid Tank Area	65.8	58.2
09	K-6 Plant - Near Main Gate	59.8	52.6
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/04

Test Report No.	GA/23/02/109	Test Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	09/02/2023
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 10:30 HRS.	NIGHT TIME 22:35 HRS.
01	Near Methanol Gate Area	63.1	56.6
02	Near IPA gate Area	72.6	68.2
03	Near WNA III Area	72.8	67.4
04	Near GT – II Area	73.1	67.7
05	Near Utility Area	73.8	68.8
06	Near Time Office Area	60.2	54.3
07	Near Store Area	58.9	55.0
08	Near Acid Tank Area	64.4	53.4
09	K-6 Plant – Near Main Gate	57.3	51.8
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/04

Test Report No.	GA/23/01/298	Test Report Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	16/01/2023
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 10:35 HRS.	NIGHT TIME 22:30 HRS.
01	Near Methanol Gate Area	61.3	56.8
02	Near IPA gate Area	72.4	68.2
03	Near WNA III Area	72.9	68.0
04	Near GT – II Area	73.1	67.9
05	Near Utility Area	73.7	68.9
06	Near Time Office Area	61.1	55.2
07	Near Store Area	58.2	54.0
08	Near Acid Tank Area	64.4	58.2
09	K-6 Plant – Near Main Gate	57.9	51.8
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/04

Test Report No.	GA/DF/0343/23	Test Report Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	06/03/2023
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 11:15 HRS.	NIGHT TIME 22:45 HRS.
01	Near Methanol Gate Area	62.7	56.3
02	Near IPA gate Area	73.8	69.0
03	Near WNA III Area	74.3	67.8
04	Near GT - II Area	73.8	68.3
05	Near Utility Area	74.0	69.4
06	Near Time Office Area	59.6	55.8
07	Near Store Area	58.2	51.6
08	Near Acid Tank Area	63.4	57.3
09	K-6 Plant - Near Main Gate	60.1	53.8
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

CHECKED BY

Note :

1. The results relate only to the samples tested.
2. Test Report shall not be reproduced except in full, without written approval of the laboratory.
3. Test Results relate only to the conditions prevailing at the time of sampling.
4. Customer complaint register is available at laboratory.



DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED



SMARTCHEM
TECHNOLOGIES
LIMITED



Deepak Fertilizers and Petrochemicals Corporation Ltd,
Smartchem Technologies Limited Taloja
Performance Chemiserve Limited
CSR Report FY 2022-2023

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 are being implemented in 47 villages and 19 hamlets from Taloja and urban area of Pune -Maharashtra, Dahej-Gujrat, and Srikakulam-AP.

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 Project

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

Dairy Development Project

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

Vocational Skill Development Project

- Sponcership to Diploma in ophthalmology Students
- Tailoring Training
- Soft skill training

Aarogyam Project

- Mobile Medicine Unit
- Eye camp
- Infrastructure Development for Health facility/ Health Centres
- Pathology lab

Gyanam Project

- Infrastructure development for School
- Digitization of School Classrooms
- Create Facility

Livelihood Inhancement Through Enterprenurship Development (LEED)

- Yellow Ribbon NGO & Artisan Fair
- Muskan
- Support for Income Generation Activity

Community Development And Social Welfare Project

- Infrastructure development and Need based activity at Taloja And Dahej Location

Overview of Initiatives:

Since its inception, IsFon has been engaged relentlessly in societal upliftment in rural and urban areas of Maharashtra, Gujarat and Andhra Pradesh. Through their interventions, IsFon has positively impacted the lives of **31,129 beneficiaries in 2022-23** alone.

For urban communities, it continues to implement initiatives aimed primarily at enhancing employability and income. These include the Vocational Skill Development Project (VSDP), Livelihood Enhancement through Entrepreneurship Development Project (LEED) like Muskaan, Income Generation Project (IGP), Yellow Ribbon NGO & Artisans Fair (YRNF), Entrepreneurship Development and Aarogyam.

Rural communities benefit from Wadi, Dairy Development Project (DDP), Aarogyam, Gyanam, Community Development & Social Welfare (CSDW), Entrepreneurship Development and Vocational Skills Development project (VSDP). Through these initiatives, IsFon's dedicated team has helped small & marginalized farmers, women and youth to fight poverty, combat health issues and find sustainable livelihoods.

Beneficiaries Covered: 31,129

Key highlights 2022-2023

S.N.	Name of Project	Major Activities	Number of Beneficiaries Covered		
			Rural (Taloja/ Dahej/ Srikakulam)	Urban (Pune)	Total
1	DDP	Support for Crossbreed Cow, Artificial Insemination, Pregnancy Diagnosis, Vaccination, Fodder Development, Training	292	0	292
2	WADI	Mango Plantation, Vegetable Cultivation, water resource Devt. & Conveyance, Nursery Development, training,	410	0	410
3	Aarogyam	Cataract Operation, Health camps & Awareness, Mobile Clinic, diagnosis Services, Support to Primary Health Centre	20129	839	20968
4	CDSW	Open Gym, Drinking water facility, Infrastructure Development for Community use.	1097	0	1097
5	VSDP	Vocational Trg, + Placement; sponsorship of fees.	59	524	583
6	LEED	Entrepreneurship Devt., YRNF, Muskaan, Income Generation	58	4254	4312
7	Gyanam	Digital classroom, Infrastructure Development, Lab equipment, Sports kit, Drinking Water Facility, Teacher appointment	3467	0	3467
Total No. of Beneficiaries Touched			25512	5617	31129

Wadi Project (Taloja)

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 the 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:

- Mobilization 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:

S. N.	Activity	Unit	Achievement	Remarks
A	Horticulture Plantation			
1	Gap filling and Aftercare activities: Basin preparation, weeding, Staking, Plant sanitation, Pruning, irrigation, Collect Mango graft demand.	No. of wadi	380	Plantation of 2649 Mango Grafts - (Variety-Keshar) with 275 wadi aspirants. Survival rate of Wadi Plantations is 94.25 % for 2022-23 up to the end of this Year.
2	Plant Protection (Batch VI to VII)		135	Provided Fungicide and pesticide to aspirants from B-VI and B-VII.
3	Plant Nutrition (Batch V to VII)		199	Provided NPK and Micronutrient to aspirants from B-V, VI and VII.
5	Vegetable Cultivation (Batch VI to VII)	No. of Aspirants	132	Provided vegetable seed to 132 Wadi aspirants. All aspirants completed seed sowing.
B	Development of Model /Trial Plot			
1	Trial Fruit Plot: Pineapple-850, Rose berry-10, Fig-17; Cashew- 60, Avocado-10, Apple Graft-35	Nos. Plots	06	•Plantation done as trail and demonstration in the Taloja area.
2	Support for Vegetable Nursery (Plastic tray & Seed support)	Nos.	5	From 5 Nurseries total 29700 no's seedling are prepared, 23800 sold out, Participants earned additional income of Rs.50400/-, 5900 seedlings are used for self from these save cost of Rs.11800/-.
3	Support for Mango Graft Nursery- 08 Nos (6000 grafts)	Nos	8	From 8 Nurseries Out of 8150 graft total 6527 no's grafts are survived, 830 sold out@Rs.50/Graft, Participants Earned additional income of Rs. 41500/- form sale of mango graft.
4	Mogra graft nursery	Grafts	100	From 1 Nursery total 1000 no's saplings are prepared; 800 saplings are sold out, earned additional income of Rs.8000/- and 200 saplings are used for self from these save cost of Rs.2000/-.
5	Establishment of Culture Bank- 05 type of culture bank.	Nos.	01	Set up done for Culture bank unit at Mohadar Village, cultures from this bank will be used for vegetable and fruits plots.
C	Water Resource Development, Conveyance & Effective Water Usage other than wadi Aspirants	Nos	26	Support given for WRD equipment as per need of farmers (HDPE pipe, Electric Motor, Diesel Engine, Petrol Engine)
D	Capacity Building			
1	External Exposure of Wadi & Nursery aspirants	Nos	3	22 nos. of participants joined Exposure at Lachkhadi BAIF Gujrat and Harsul area of Nasik district (M-22).
	External Exposure volunteers	Nos.	2	16 nos. of volunteers joined Exposure visit at Krushithon Exhibition Nasik (M-16).
2	Farmers internal exposure visits towards established wadi/Nursery (progressive farmer)	Nos	10	124 participants joined this study tour within field to learn best wadi management practices (M-94, F-30).
	Staff Exposure	Nos.	1	learn best management practices of agriculture and High-Density Planting of

				Mango at Harsul area of Nasik and Kisan Expo Pune (5+5=10).
3	Kisan Mela	Nos	3	Total 210 No of participant attended Kisan Melava (M-122, F-88)



Mango Graft Distribution



Plant Nutrition Distribution



Vegetable Seed Distribution



Farmers Training

Vegetable Cultivation



Culture bank Training and Set-up



Farmers Training and Kisan Melava



Mago Graft Nursery

Support for WRT Equipment



Mango Fruiting



Mango Grading and Packing



Mango Marketing



Dairy Development Project (Taloja-MHS)

Dairy is an important subsidiary source of income for small/marginal and agricultural laborers in rural areas. 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.

This rural initiative addresses small / marginalized / landless farmers and labourers and aims to enhance dairy farming productivity. Aspirants for this project are selected with due diligence based on set criteria.

- Eligible women of farmer's household are supported with cow.
- Provides an opportunity for the farmers to earn about Rs.8,000/- to Rs.12,000/- per month through the sale of milk and cow dung.
- Assistance in the development of fodder plots
- Doorstep services of artificial insemination followed by pregnancy diagnosis of cows and buffaloes.



Major Achievements:

Sr. N.	Activity	Unit	Achievement	Remarks
A	Support for Dairy Enterprise			
1	Purchase of Cows	No. cattle	13	Support given for the purchase of 13 cows for 13 Participants.
2	Vaccination and Medicine to the milking animals	Doses	1835	Vaccination Done: Theileriosis-300; Deworming-390; Heat induction-145 FMD-Vaccination-1000, Cows & Female Calves.
3	Lumpy Vaccination	No. of Cattles	891	As Emergency Declared by State Livestock Department, IsFon has taken Initiatives for Vaccination, Treatment and awareness with coordination Govt. Livestock Department. Cow- 132 + Calves- 437 + Other- 322 ,Total= 891
	Lumpy Skin treatment	Nos. of Cow	87	Our project cows are 40 and other 47 animals treated under the guidance of Govt. Veterinary expert to control viral disease.
4	Support for Calf Grower- 50 kg/Bag – on 50 % Grant	No. of Bag	100	Distributed Calf Grower to 100 Calves.
	Support for Fodder Seed-Maize on 50 % Grant		100	Support has been given to 72 Participants.
5	Artificial Insemination	No. of AI	1004	PD-957/929 (CPD-412; Empty-82; Repeat-435 & Pending-28=929) CPD Rate: 44.34% Calving: Male-141 & Female: 183
B	Capacity Building			
1	Training on livestock management to each new cow batch (5 Aspirants/batch)	Nos.	3	A total of 13 participants joined Training and exposure.
2	Expert Visit to critical cows	No. of Visit	3	Veterinary Expert visit organized for further guidance to the dairy aspirants.
4	External Exposure	Nos.	2	Conducted Exposure visit at Ideal Dairy Farm. Total 49 participants joined these exposures at Wagholi and Uralikanchan BAIF campus Pune.
	Internal Exposure	Nos.	3	Conducted Exposure visit at Ideal Dairy Farm within the project. Total participants joined these exposures.
C	Fodder Development			
1	Napier Grass	No. of Plots	20	Developed 20 Plots
2	Azolla	Plots	10	Developed 10 Demo

Donation of Cow



Donation of Cow



AI and PD Services



Vaccination



Exposer Visit



Exposer Visit



Green Fodder Development



Vocational Skill Development Programme:

Skill enhancement through various training programs such as Tailoring courses and Optometry courses were initiated by IsFon. These activities created a positive impact on the aspirants, by providing them financial stability and inclusivity within the community.

Major Achievements:

Sr. N.	Activity	Unit	Achi	Remarks
A Taloja				
1	Sponsorship for BSc. Optometry (Laxmi College of Optometry, Panvel)- IInd Yr-02 +IIIrd Yr- 01	No. of Students	4	Supported to four students 2.56 Lakh Rupees for Second Year.
2	Tailoring Course Pale Kh. Centre	Nos of Aspirants	55	<ul style="list-style-type: none"> • 51 Aspirants Completed Course • 16 Aspirants Drop Out • 04 aspirant's ongoing course
B Pune urban				
1	Various job-oriented courses	Nos of Aspirants	524	<p>IsFon conducts a variety of job-oriented vocational courses with emphasis on soft-skills training for underprivileged women, youth and school dropouts from marginalised and financially challenged communities. The aim is to train them for better employment opportunities, gradually leading their families out of poverty and towards sustainable livelihood.</p> <p>Soft skills training includes Spoken English, Personality Development and Yoga sessions, Talks on Health awareness, Financial Literacy & Environmental awareness. As per requirement experts were invited to train the aspirants to improve their soft skills.</p>

Garment Training Class



Meeting with B.Sc. Optometry Students



Aarogyam project:

IsFon aims to improve the health status and thereby develop a healthy society by improving quality of life of the vulnerable populations in and around Pune city and the villages of Talaja MIDC through preventive health care services. This holistic health objective is woven around proactive diagnosis and care with the following objectives:

- To assess and diagnose the health needs of individuals, families and communities as well as providing comprehensive care.
- To provide qualitative, preventive and curative health care to the community
- To provide doorstep healthcare services through Mobile Clinic
- Increase the focus on health promotion and prevention, screening and early intervention.
- To improve access to health care services
- Reduce medical expenses and early detection of diseases of the needy through early diagnosis.
- To conduct health awareness programs
- Support during the pandemic



Mobile Clinic

Major Achievements:

Sr. N.	Activity	Unit	Achi	Remarks
A	Talaja			
1	Mobile Clinic	Nos. Patients	15771	Doorstep health services provided to 15771 patients through mobile clinic from 21+ villages in and around Talaja MIDC.
2	Eye Check Up Camp	Nos	4	<ul style="list-style-type: none"> • Patients Screened: 1025 • 385 were diagnosed with cataract & 220 cataract operations were performed. • 306 patients with vision error, provided spectacles.
i	Cataract Surgery	Nos	232	232 Patients Cataract surgeries have been done.
ii	Spectacle Distribution	Nos	320	Spectacle distributed to 320 patients.
iv	School Screening camp for Eye Check up	Nos	3	Camps Organized at RZP School Wavanje, Pale Kh, Chindran, Tal. Panvel. In this camp total 832 Students examined and 34 found vision problem.
3	Perennial Kitchen Garden	Nos	314	Distribution 03 grafts of each Guava, Curry leaf & Lemon to 314 Aspirants.
4	Seasonal Kitchen Garden	Nos	1750	Distribution Seasonal Kitchen Garden Seed Kit to 1750 Aspirants. (12 Types of Vegetable seed in one Kit)
5	Support of Computer, printer & inverter with Battery to PHU Valap	Nos	1	Donated One Set Computer, printer & inverter with Battery to PHU Valap.
6	Water Supply Facility at Wavanje PHC with platform & tank	Nos.	01	Created water supply facility with 5000 lit syntax tank and one stand post.

B Dahej				
1	Weighing scale for Rahiyad Aanganwadi (Dahej)	Nos.	02	Donated Two Weighing Measurement Equipment's to Aanganwadi for measurement of Children and Pregnant women.
2	Construction of new toilet at Aanganwadi-Rahiyad Village.	Nos.	01	Construction of Toilet at Rahiyad Aanganwadi work has been completed as per BOQ.
3	General Health checkup camp with free medicine-Rahiyad- 02 and Suva-02	Nos.	05	Conducted Medical Health check-up camps in the Suva and Rahiyad village. Total 730 patients were screened and given free Medicine as per diagnosis.
4	Health and Hygiene Awareness programmed for Suva Primary school children.	Nos	01	As per demand received from School, conducted Health and Hygiene awareness session for school children in Suva Primary school.
C Pune Urban				
1	Pathological collection center	Nos of Patients	835	IsFon started a collection centre for pathological investigations at its office through a tie-up with N.M. Diagnostics Pvt. Ltd. It serves as a convenient collection centre for patients to avail pathological services at very nominal costs

Eye Camp



Spectacle Distribution



Cataract Operate



School Student Eye Check-up



Water Supply Scheme for PHC Wavaje



Computer Distribution to Valap PHU



Gyanam Project:

The root of development of any child and our society is good quality education in schools with overall development and conducive environment. Majority of the schools in the villages wherever the presence of DFPC exists lack the basic infrastructure facilities & digitalization. Improvement/Upgradation of the school infrastructure, educational tools and sport equipment will improve the environment of school more conducive for students.

The two-pronged goal comprises of:

1. Creating a better school learning environment through various interventions
2. Improving the overall quality of education

Major Achievements:

Sr. N.	Activity	Unit	HY-Achi	Remarks
A	Taloja			
1	Digital Class set: 55" Android TV, State Board syllabus in pen drive, Wireless mouse, Keyboard, required electric fitting, Teachers Training and 3-year onsite OME warranty and technical support to each class.	No. of Set	37	RZP School Devichapada-2, Pale kh-4, Wavanje – 5, Chindran- 05, Kanpoli – 02, Shiravli -01, Chinchavli -01, Ambe-01, Nitale-01, Pendhar-8, Mohadar-1, Karambeli-1, Taloja Majkur-05.
2	Tin roof sheet installation Classrooms and coloring of Valavali RZP School	Nos.	1	Completed of Tin roof sheet installation Classrooms and Coloring of Walavali RZP School
3	Desktop Computer and Printer for RZP School Tondre-02 set and Pale-01 set	Nos.	3	Donated Desktop Computer and Printer to RZP Schools form Wavanje, Pale kh and Tondare Village.
4	Water purifier and Water cooler Storage at RZP Schools	Nos.	3	Installed Water purifier and Water cooler at RZP School Dongryachapada, Taloja Majkur and Devichapada Village.
6	Coloring of School_ Shri Sadguru Waman Baba Madhyamic Vidhyalaya-Ghot	Nos.	1	Completed work as per Plan
7	Carrier Guidance Session for 10th & 12th Students	Nos.	13	Conducted 13 Career Guidance seminars in 8 schools and 1494 students participated in this seminar.
8	Construction of Toilet Block at Sudhagad Highschool, Chindran	Nos.	1	Completed work as per Plan
B	Dahej			
1	Installation of Tin roof sheet with structure at Rahiyad Primary School.	Nos.	01	The infrastructure is available for 265 students.
2	Metal Bookshelf for Rahiyad Primary School	Nos.	04	Handed over 4 Almirah to Primary school Rahiyad
3	Toilet Repairing at Rahiyad Primary school	Nos.	01	Toilet Renovation and Repairing work at Rahiyad primary school has completed.
4	Rahiyad Secondary and Higher secondary school Classroom furniture (06-Tables & 06-Chairs)	Nos.	06	Donated 6 Tables and 6 Chairs to Rahiyad secondary school
5	Rahiyad Secondary and Higher secondary school Teacher for class 11th & 12th commerce	Months	06	

6	Flooring of Mid-Day Meal area at Rahiyad Primary school	Nos.	01	Mid-Day-Meal Flooring work has been completed in Rahiyad Primary school.
C Srikakulam				
1	Sports kits distribution to Govt school, Ponnada	Nos.	01	Donated sport kit to one school but budget is balance so planned donate one more sport kit to other school.
2	Provide 2 School Teacher to Govt school, Ponnada- Srikakulam	Months	09	Appointed 2 School teachers.
3	Installation of 50 LPH RO plant in elementary School, Venkannagaripeta	No's	01	As emerging need and saving of budget from above activity.

Digital Classroom Inauguration



Donation of Computer and printer to Schools



Drinking Water Facility at RZP Schools



Renovation of Ghot School



Career Guidance Seminars



Renovation of RZP School Walvali



Livelihood Enhancement through Entrepreneurship Development (LEED)

Although several aspirants dream of having their own business or expanding their existing business, they face many stumbling blocks and find it challenging to do so due to poor entrepreneurial capabilities, unavailability of information and access to markets as well as lack of finances to purchase related equipment's. This adversely affects their socio-economic conditions.

Our Entrepreneurship program offers them help to start and expand a business idea. The programme seeks to enhance skills and knowledge to empower entrepreneurs run small businesses through various initiatives.

- High-end sewing machines were given to beneficiaries to help them stitch faster with good finishing
- Support of parlour chairs and two-in-one steamer were given to the beneficiaries to help them to start their own parlour
- Hand carts were given to small vegetable and fruit vendors who were selling on the streets to start their own business

Major Achievements:

Sr. N.	Activity	Unit	HY-Achi	Remarks
A	Taloja			
1	Support to Individuals towards Enhancing Entrepreneurship	Nos	58	Provided various types of tools and equipment for strengthening their existing businesses.
B	Pune Urban			
1	Income Generation Programme (IGP)	Nos. of Beneficiary	90	Attractive handmade cloth products like envelopes, bags, thali covers, table mats, saree, covers, jewelry pouches, etc., that make wonderful gifting options, are designed by our team. The programme selects women who are already skilled in tailoring and cutting and trains them to enhance these skills taking them to the next level, making them adept at creating the beautiful handmade products
2	Muskan	Nos. of Customers	2449	Based on the principle of 'Reuse, Recycle & Revenue generation', this is a unique initiative empowering financially challenged women whom we call as 'Muskaan Parees'. Pre-owned garments are donated by well-wishers, which helps financially challenged women earn a secondary source of income through sale of garments in the marginalized basis and at public places. It also benefits the customers since the items are sold at a very nominal price. The unsold garments are collected by Swachh under its V-Collect initiative for recycling.
3	Yellow Ribbon NGO & Artisans Fair (YRNF)	Total Participating organizations	115	The Yellow Ribbon NGO & Artisans Fair is an annual pre-Diwali event which was organized from 16th to 19th October 2022 at Creativity, Pune. It is a unique platform that brings the collective work

of NGOs, artisans, farmers, social enterprises and SHGs from across India providing them with a platform to reach out to their stakeholders be it - individuals, corporates or government bodies. YRNF provides the opportunity to its participants to showcase and sell the products made as a part of their income generation activities. The Fair also generates awareness about the work they do and the various causes they support such as livelihood, health, women empowerment, education, environment and social welfare. The foundation makes gift hampers which include products made by some of the participants. The sale of these hampers also helps in the sale and exposure of their products. This year's participants came from across Maharashtra, Himachal Pradesh, Gujarat, Lucknow, Punjab, Jharkhand, West Bengal and Rajasthan. They exhibited and sold products ranging from sweets, gifting articles, diyas, dry fruits, candles, flower vases, organic cereals & pulses, traditional Indian woven sarees, dress material and much more.



Community Development and Social Welfare (CDSW)

Under this initiative by IsFon, community members come together to resolve common problems by taking collective action. The aim of this initiative is to bring about community development through collective actions of the members of the community by acting as an active catalyst so as to overcome economic, social and environmental difficulties.

Major Achievements:

Sr. N.	Activity	Unit	Achi	Remarks
A Taloja				
1	Open Gym at Khairne, with Fencing)	No's	01	Installed 10 type of equipment with proper fencing and Platform
2	Dongryachapada-Repairing of Drinking Water Scheme	No's	01	Complete Works of DWS at Dongryachapada Village.
3	Construction of Community Katta and Bench-Ghot	No's	01	Complete Construction of Community Katta and Bench-Ghot Village
	Donation of Desktop Computer and Printer to CP Office CBD Belapur	No's	01	Donated 4 Desktop computers and 2 Printers in the presence of MP Shinde Sir.
B Dahej				
1	Open Gym equipment's installation in Rahiyad village	Nos.	1	Open Gym Installation at Rahiyad village has been completed in January-23.
3	Installation of Iron roof shade at Entrance (Madhuli area) of the Rahiyad Village	Nos.	1	Work has been completed
4	Installation of Paver Block and Shade at Children Playing Equipment area.	Nos.	1	Work has been completed.
5	Installation of Water Cooler at Nana Mandva Village of Rajkot	Nos.	1	Work Has been completed and handed over to Nana Mandva Gram Panchayat.



CSR expenditure details for the Financial Year 2022-2023

S.N	Name of Project	DFPCL	PCL	STL	Total
1	Aarogyam	24,66,690.00		45,69,910.00	7036600.00
2	GYANAM	1,04,12,653.00		1,91,82,714.00	29595367.00
3	Community Development and Social Welfare (CDSW)	14,60,470.00		26,45,938.00	4106408.00
4	Vocational Skill Development Programme (VSDP)	43,53,136.00		78,86,591.00	12239727.00
5	Livelihood Enhancement through Entrepreneurship Development (LEED)	28,17,956.00	400000.00	41,99,449.00	7417405.00
6	WADI	8,57,440.00		15,53,427.00	2410867.00
7	Dairy Development Project (DDP)	3,86,133.00		6,99,558.00	1085691.00
8	ITI & Skill Devt. Centre	40,522.00		73,413.00	113935.00
Total		22795000.00	400000.00	40811000.00	64006000.00

Media And Coverage_Taloja

दीपक फर्टिलायझर्स व ईशान्य फाउंडेशनने शाळांना मदत

पवनल टाइम्स



दीपक फर्टिलायझर्स व ईशान्य फाउंडेशनने शाळांना मदत

शिक्येसाठी कमीत कमी शिक्षण केंद्रेत मार्गदर्शक तंत्रांनी शाळांसाठी डिजिटल शिक्षण प्रणालीचे उद्घाटन व या योजने अंतर्गत पारंपारिक शाळांसाठी कॉम्प्युटर संच वाटप करण्यात आले.

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दीपक फर्टिलायझर्स व ईशान्य फाउंडेशनने शाळांना मदत



दीपक फर्टिलायझर्स कंपनीच्यावतीने शाळांसाठी संगणक संच वाटप

दीपक फर्टिलायझर्स व ईशान्य फाउंडेशनने शाळांना मदत. शिक्येसाठी कमीत कमी शिक्षण केंद्रेत मार्गदर्शक तंत्रांनी शाळांसाठी डिजिटल शिक्षण प्रणालीचे उद्घाटन व या योजने अंतर्गत पारंपारिक शाळांसाठी कॉम्प्युटर संच वाटप करण्यात आले.



४० वर्गसोत्यमधील डिजिटल शिक्षणप्रणाली

शिक्येसाठी कमीत कमी शिक्षण केंद्रेत मार्गदर्शक तंत्रांनी शाळांसाठी डिजिटल शिक्षण प्रणालीचे उद्घाटन व या योजने अंतर्गत पारंपारिक शाळांसाठी कॉम्प्युटर संच वाटप करण्यात आले.



Media And Coverage_Taloja

दिपक फर्टिलायझर्स अॅण्ड पेट्रोकेमिकल्स कॉर्पोरेशन लिमिटेडच्या वतीने मोफत नेत्र तपासणी शिबीर संपन्न

मुंबई, दि. १७ - दिपक फर्टिलायझर्स अॅण्ड पेट्रोकेमिकल्स कॉर्पोरेशन लिमिटेडच्या वतीने मुंबई शहरात मोफत नेत्र तपासणी शिबीर संपन्न झाले. या शिबीरात अनेक नेत्र तपासणी तज्ज्ञांच्या उपस्थितीत अनेक नेत्र तपासणी करण्यात आली. या शिबीरात अनेक नेत्र तपासणी तज्ज्ञांच्या उपस्थितीत अनेक नेत्र तपासणी करण्यात आली. या शिबीरात अनेक नेत्र तपासणी तज्ज्ञांच्या उपस्थितीत अनेक नेत्र तपासणी करण्यात आली.



दिपक फर्टिलायझर्स अॅण्ड पेट्रोकेमिकल्स कॉर्पोरेशन लिमिटेडच्या वतीने मुंबई शहरात मोफत नेत्र तपासणी शिबीर संपन्न झाले.

Raigad Nagari 19 Oct 22

ईशान्य फाउंडेशन व लक्ष्मी चॅरिटेबल ट्रस्ट फनवेल दांच्या वतीने नेत्र तपासणी शिबीर संपन्न

मुंबई, दि. १७ - ईशान्य फाउंडेशन व लक्ष्मी चॅरिटेबल ट्रस्ट फनवेल दांच्या वतीने मुंबई शहरात मोफत नेत्र तपासणी शिबीर संपन्न झाले. या शिबीरात अनेक नेत्र तपासणी तज्ज्ञांच्या उपस्थितीत अनेक नेत्र तपासणी करण्यात आली. या शिबीरात अनेक नेत्र तपासणी तज्ज्ञांच्या उपस्थितीत अनेक नेत्र तपासणी करण्यात आली.



ईशान्य फाउंडेशन व लक्ष्मी चॅरिटेबल ट्रस्ट फनवेल दांच्या वतीने मुंबई शहरात मोफत नेत्र तपासणी शिबीर संपन्न झाले.

Dainik Mahasagar 17 Oct 22



दिपक फर्टिलायझर्स कंपनीच्या ईशान्य फाउंडेशन कडून वळवलीतील अंगणवाडी नूतनीकरण



फनवेल लोकमत प्रतिनिधी
दिपक फर्टिलायझर्सच्या ईशान्य फाउंडेशन या संस्थेच्या माध्यमातून वळवलीतील अंगणवाडीच्या दोन खोल्यांचे नूतनीकरण केलेल्या जादूचे लोकार्पण सोहळा मंगळवार दि. ११ ऑक्टोबर रोजी सकाळी ११ वाजता कंपनीचे वरिष्ठ महाव्यवस्थापक, संतराम चवलावाड

व पंचायत समिती माजी सभापती काशिनाथ पाटील यांच्या हस्ते फीट कापून करण्यात आले. यावेळी प्रमुख उपस्थिती नगरसेविका प्रज्वोती पहाडे, महाव्यवस्थापक- सिव्हील श्री मनीष पंडित, एवढीपी सिव्हील राहुल वैद्य, वरिष्ठ व्यवस्थापक- सौंदर्य कावडे, प्रकल्प व्यवस्थापक- ईशान्य फाउंडेशन योगेश पाटील, यांचे स्वागत प्रकाश म्हाते व माजी सरपंच, हाळा कमिटी ग्रामस्था आर्टीन करून करण्यात आले. तसेच ग्रामस्थांकडून व अंगणवाडी कडून दीपक फर्टिलायझर्स कंपनी व ईशान्य फाउंडेशन या संस्थेचे आभार पत्र देऊन आभार मानले. यावेळी प्रकाश म्हाते यांचे ग्रामस्थांकडून या कार्यासाठी स्वागत करण्यात आले.

दिपक फर्टिलायझर्स अॅण्ड पेट्रोकेमिकल्स कॉर्पोरेशन लिमिटेडच्या वतीने मुंबई शहरात मोफत नेत्र तपासणी शिबीर संपन्न झाले. या शिबीरात अनेक नेत्र तपासणी तज्ज्ञांच्या उपस्थितीत अनेक नेत्र तपासणी करण्यात आली.

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फनवेल/प्रतिनिधी
१७ सप्टेंबर रोजी दिपक फर्टिलायझर्स अॅण्ड पेट्रोकेमिकल्स कॉर्पोरेशन लिमिटेडच्या वतीने मुंबई शहरात मोफत नेत्र तपासणी शिबीर संपन्न झाले. या शिबीरात अनेक नेत्र तपासणी तज्ज्ञांच्या उपस्थितीत अनेक नेत्र तपासणी करण्यात आली.



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