

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 Clerance 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.

FACTORY : Plot K-1, MIDC Industrial Area, Taloja 410 208, Dist. RAIGAD Tel : + 91 22 6768 4000 Fax : + 91 22 2741 2413

		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)
1	Location	
a.	District (S)	Raigad
b.	State (S)	Maharashtra
с.	Latitude/longitude	19°04'11.3"N/73°08'04.1"E
	Address for correspondence	
a.		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
	Salient features	
	of the project	Annexure-A
b.	of the environmental management plans	Annexure-B
	Break up of the project area	
	submergence area forest & non forest	NA, (MIDC Land)
_	Others	NA
3	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)
	systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey)	NA
	Financial details.	
a.	Project cost as originally planned and subsequent revised estimates and the year of price reference	153.7 Crores
		 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 4Rs. 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 PM Analyzer 9. Rs. 01 lakhs for OCEMS Glens portal development
с.	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
-	Actual expenditure incurred on the environmental management plans so far	For details see 9 b)
)	Forest land requirement	
a.	The status of approval for diversion of forest land for non-forestry use	NA, (MIDC Land)
_	The status of compensatory afforestation program in the light of actual field experience so far	NA, (MIDC Land)
L		NA, (MIDC Land)
2	Status of construction	
	Date of commencement (Actual and/or planned)	Year 2005
	Date of completion (Actual and/of planned)	Year 2006
-		NA
	Dates of site visits	
	The dates on which the project was monitored by the Regional Office on previous	NA
L	Occasions, if any	
	Date of site visit for this monitoring report Details of correspondence with Project authorities for obtaining Action	NA
.5	plans/information on Status of compliance to safeguards Other than the routine	
1	letters for Logistic support for site visits)	

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Executive Summary

1.0 Introduction

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The Deepak Group of industries one of the major groups in Maharastra state is proposing to set up India's first plant for manufacturing Isopropyl Alcohol (IPA).in technological collaboration with US-based Equistar-LyondelD 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

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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-I 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.

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

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Salient Features Of The Proposed Isopropyl Alcohol Plant at Taloja

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2.0 Process Description

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

***	C 3	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.

CH₃CH=CH₂ + H₂O → (CH₃)₂CHOH

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.

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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.

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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, CI and SO₄ are available for plant at the neutral pH except for Fe, Mn and AI 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.

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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

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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	Attached	Height	Dia.	Velocity	Volume	Temp.	SPM	S02
No	to	(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

Stack and Emission Details

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.

Pollutant	Baseline Max. Value - (µg/m³)	Predicted Max. contribution to GLC's -(µg/m³)	Predicted future AAQ concentration - (μg/m ³)
Particulate Matter	156	0.281	156.28
Sulphur dioxide (SO ₂)	12	19.70	31.70

Predicted baseline values of SPM and SO₂ in SW direction

(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 Itd 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.

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CHAPTER-V ENVIRONMENTAL MANAGEMENT PLAN

5.4 Objective

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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 heighbouring populations. The potential environmental impact envisaged from the project is studied on the following environmental components:

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

The management action plan aims at controlling potution 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

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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 spitlages during the handling and the transportation of the construction material and the solid waste generated during the construction.

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

Noise effect on the nearby habitation during construction activities will be negligible as the nearest habital is more than 1 km from the plant. However construction labour would be provided with noise protection devises like ear multis, and occupational safety ware. It is recommanded 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 tay special emphasis on measures to minimizes 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 embient 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 RELA fair proposed iso Propri Alzohol Plant

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guidelines issued by the CPCB for the proposed bailer for the effective dispersion of the pollutants.

The sources of air emission rom the plant are a) Point source (Boiler) emissions b) Non Point source (Fugilitive) emissions

a) Point Source (Beller) 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 NOx are the major emissions from the plant. However as the fuel proposed to be used for beiler being furnace oil and purge gas Particulate matter envisaged is negligible, and for proper dispersion of SO₂ and NOx into surrounding environs; stack height has been maintained as per the existing horms. 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.

operation

In addition to above oblier is controlled by programmeble Logic Centrel -Supervisor Control and Data Acquisition System. (PLC-SCADA) based system. RELA for proposed ito Proppi Alcohol Plans M's Deeper Fertilizers & Petrochemicals Corporation 114.

Boiler	Specifications
Capacity	30TPH
Fuel Consumption	52 TPD furnace oil and 12 TPD Purge gas
Sulphur %	0,35% fumaco oil
Sulphur dioxide content	52000*0,035*2/24 = 151.7 kg/hour
Stack height as per MoEF	14 (SO ₂ kg/hr) ¹³
Stack Height H motors	14(151.7) ⁰³ = 63.15 m
proposed stack height	63.5 m
Particulate matter control system	Cyclone and programmable Legic Control – Supervisor Centrol and Data Acquisition System, (PLC-SCADA) based system.
DG set	
Gapacity	75 KVA
Stack height as per MOEF	H=h+0.2 VKVA
Stack height H meters	Height of building +0.2√75 KVA = 1.73m 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 vont 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 condensors
2	To Control losses during manufacturing process	All reactor are provided with vent Condensers

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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 membring 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 NOx 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, boiter, 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

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	317.328	ETP
	washes, etc	14.52	ETP
	The second se	2,684	STP
5	Boiler	24	ETP
6	Export	0	
	Total	666.912	

Table 5.3

Wastewater Generation Dotalls- m³/day

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 time in Reaction Tank I. The fime mixed effluent is sent to Clarifloculator where sludge, as calcium

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phosphate, is separated. The separated studge 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 plan) 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 such to parent industry sawage 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) Phosphato removal

The process offluent 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 time. The overflow through gravity will go to clarifloculator for separation of calcium phosphate studge. The studge is sent to centrifuge and the contrate is sent back to CT 1 and the studge cake is disposed off. The treated effluent is sent to Reaction tank IIA.

b) Disassociation 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 got dissociated into ammonia gas and H⁺ ions.

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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 offluent 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 ammonianes introgen in the effluent will be around 108 mg/l. This effluent stream further requires freatment prior to biological den'trification process for nitrate nitrogen removal.

The above treated offluent 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 ammonical 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 trepted wastewater from Reactions tank III which still contains Nitrate --N and Nitrite --N is subjected to two stage denitrication 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 trepted water from state I denite bioreactor goes to clarifier I for separation of suspended biomass part of the biomass is recycled for stabilization and excess studge is sent to studge drying beds.

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

Polishing/aeration

The treated wastewator over flowing from denite clarifier is obtected in polishing aeration tank which is provided with polishing diffuse actation 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.

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		Table 5.4
	Existing T	reatment Facilities
S.No	Code No	Units
1	CTI	Collection /noiding Tenk. CT-I
2	RT1	Reaction Tank-I
3	CF1	Clarifloculator
2	AS 1	Ammonia stripper Stage-I
5	AS II	Ammonia stripper Stage-II
6	RT IIA	Reaction Tank-IIA
7	RTIB	Reaction tank -IIB
8	RTM	Reaction Tank-III
9	DNI	Denitrification tank stage-I
10	CLS	Clarifier stage-I
11	DN 1	Denitrification tank stage- II
12	GL II	Clarifier stege-II
13	PT	Polishing tank

S.	Parameters	Units		Before		After
No			Process, washes, etc	CT, Boiler, DM	Domestic & Process	Rango
1	PH		6.0-7.0	6.0-7.0	6.5-8.0	5.5 to 9.0
2	Suspended solids	Mg/I	99	21	147	< 100
3	1800	Mg/I	145	18	507	<100
4	COD	MgA	247	23	845	<250
5	Oil & Grease	Mg/I	<10	<5	<5	<10
6	TDS	Mg/I	697	6 - K	831	<800
7	Amm. Nitrogen	Mg/I	94		+	<50
8	KJ Nitrogen	Mg/I	247	*	1	-
9	Phosphates	Mg/I	90	1.1	-	<1

	Table 5.5	
Wasto	water Characteristics - Before & After Treatment	

The entire wastewater generated is treated and sent to CETP for further disposal clong with treated effluent at CETP. The present existing Effluent treatment system will be modified to treat the effluente 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

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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 sawage treatment plant (STP) of capacity 168 m³/day. The STP comprises acration tanks followed by clarifier. The existing sewage treatment plant consists of settling tanks, acration tanks, and clarifiers.

5.4.2 Monitoring of Waste Troatment

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, MIDC drainage system is designed on the basis of the storm water flow,

Strom water drainage system consists of well-designed open surface drains network so that all the storm water is officiently 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 levals moeting 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.

all of the second design of the second s

HELA Incuroposed In Propyl Alcohol Press

M's Despois Fertilisers & Penachemirels Esquaration Ltd.

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

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

Recommendations

- The use of damping material such as this rubber/lead sheet for wrapping the work places like turbing halls, compressor rooms etc;
- Shock absorbing techniques should be adopted to reduce impact;
- Efficient flow techniques for noise associated with high fluid valucities 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 fine openings like covers, partitions should be acoustically sealed;
- Inlet and outlot 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 foors;
- Increase the distance between source and receiver by altering the relative prientation 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;

Dissound during and returns

Provision of separate cabins for workers/operators; and

NETA for proposed in Proppi Stewhol. Plats

- Ms Dorpet Ferrilisers & Penechemicals Corporation Ltd.
- The industrial compound shduld be thickly vegetated with species of rish canopy

The plant already having an in-bruse 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.

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

Table 5.6 Solid Waste Generation & Disposal

5.7 Green Belt Development

The purpose of a greenbalt around the plant site is to capture the fugitive emissions, attenuate the noise generated and improve the sesthetics. 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 gress to prevent erosion of topsoil. Adoquate 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, stc.

A Green bolt with 2500 plants is developed in the plant area consisting of species like, Guimohar, Bamboo, Karanj, Jambhool, Astumbul, and Noem, Annualty and proposed to add around 200 plants per year.

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VVIII.	le selecting the plant species for the proposed green bolt, the following guidelines
Will (oe considered:
4	Fast growing type
2	Should have a thick canopy cover
52	Should be perennial green
	Native origin
*	Should have a lorge toal area index.
5.7.	2 Design of Green Belt
Asi	ar 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 Callistemen, Prosopis etc. will be grown
4	Since the trunks of the tall troos are generally dovaid 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 in 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 lows (away from plant side).
	the bater trice lows (away notil plant side).
Tall	frees one line and short trees one line will be planted around the boiler house,
DG	set from and around the provincial blocks to sector the further bould the
to n	set room and around the production blocks to control the fugilive emissions and educa the noise.
100 10	and an a state of the state of
The	list of plants proposed to be planted in future for developing greenbelt are given
in T	able 5.7 to 5.10
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5.7.1 Plant Species for Greenbelt

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The example the Logarith Children

Plant S S. No	Scientific Name	Common Name
1	Azadirachta indica	Neem
2	Aegle rusmelos	Bel
3	Calbezia tracera	Dhala sirisa
4	Carissa carandas	Karsunda
5	Peltophorum inerme	Perungondrai
G	Saraus indica	Asoka
7	Syzyglum cumini	Zaman
8	Tamarindus II dica	linti
9	Pongamia pinnata	Beng
10	Cassia slamia	Chekundi

Table 5.8

Plant Species Recommended For Protection Against Gases And Particulates

S. No	Scientific name	Common Name
1	Butea monospenna	Dhak
2	Cassia fistura	Amaltas
3	Cassia siamia	Kassod
4	Citrila toona	Mahanim
5	Dalbergla sissoo	Shisham
6	Dillenia indica	Chalta
7	Ficus religosa	Pipal
8	Hardwick binata	Anjan
9	Mathuca indica	Mahua
10	Millingtonia hortensis	Akash nim

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	Tabla 5.8	
SI	Iggested Plant Species For Gr	een Bell Development
S. No	Scientific name	Common Name
	Largo Plants	
1	Ceducia loono	Mahanim
2	Dalbergia sissoo	Shisham
3	Azadirachta indice	Neem
4	Detonix regia	Gut mohr
5	Millingtonia hortensis	Aksh nim
6	Miomosops elengi	Maulsari
7	Peltophorum inerme	Perungondrai
8	Samania saman	Debdari
9	Thespisia populnea	Paras papal
	Medium Plants	1. 20 - 7. 6 - 1.20
1	Cassia siamia	Kassod
2	Dillenta Indica	Chalta
3	Mathuca indica	Mahua
4	Casuriana equisetifolia	Jungali Suru
5	Pongamia pionata	Beng
6	Tabulia spasiosa	-
7	Ticoma stans	
8	Terminalia catappa	Jangli badam
9	Thevetia peruviana	Pile kamer
10	Lucgena leucocophala	Subabul
	Small Plants	
1	Averenos carabbota	Carabolo
2	Nallotus philippensis	Sundui
3	Artaboteys odoratissimus	Madanmast
4	Caosalpinia pulcherana	Gulotora
5	Callistemon lanceolatus	Bottle brush
6	Caryota urens	Man
7	Cestrum dirunum	Din-Ka Raja
8	Nelia azedarch	

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Mrs Disput Fertilization Pair annakels Corporation Ltd.,

S. No	Scientific Name	Common Name
1	Azadirachta indica	Neem
2	Pougarnia pinnata	Beng
3	Saraca Indica	Ashoka
4	Delonix regia	Gut motor
5	Peltophorum inerme	Copper pod tree
6	Samania saman	Rain Lee
7	Cassia nudesa	Fink cassia
8	Bassia latitolia	Mahuva
9	Bahunia variegate	

Table 5.10	
Suggested Plant Species For Road Side Plantation	

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 fone as an when necessary on doctors advicu; required qualified external experts are appointed as and when necessary.

DFPCL takes pride in its health and salety 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 and and recommend safety norms for handling and transportation of our products.

General Safely Parameters for loading and Transportation of Chemicals.

Vehicle Permit System

Product-wise Safety Precautions

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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 ultilize the services of external laboratories and facilities. The list of laboratory equipments available for monitoring and analysis are listed in below Table.

100

Name of	the Equipment
Weather	Menitoring Station
a) Online Temperat	Automatic gaseous stack monitoring kit for SO ₂ , NO ₂ , O ₂ , Flue gas volume, ure etc.b) On line dust monitor
RD Samp	lers
Portable	Flue Gas Combustion Analysur
Bomb Ca	orimeter for analyzing sulfur content, calorific value etc.
Alomic Al	psorption Spectrophatometer
Mercury a	inalyzer
Portable I	Voise level meter (Dosimeter)
Portable 1	Waste Water Analysis Kll
BOD Incu	bator & COD Digaster with colorimeter
Electronic	Balance
Colorimet	er
Conductiv	rity Meter
Different	micron sloves (set)
Dissolved	Oxygen Moter - Portablo type
Electronic	colony counter
Flask Sha	ker
Hot Air O	ven

kEIA for proposed Iss Propril Abrahat From " " . . . Mis Deepsk's allinsors & Porochomicals Corporation Lide

5.10 Post Project Environmental Management

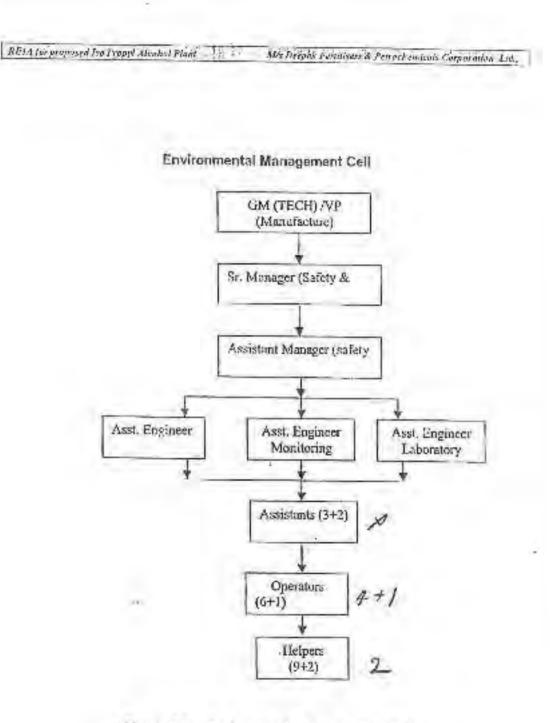
The environmental management in the proposed unit will also handled by the existing setup. Presently the environmental management department is headed by Sr.Manager (Safety and Environment). He reports to GM (Tech/VP (Manufacture). The Sr.Manager is assisted by three assistant managers to look after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

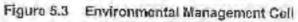
The organization setup for Environmental Management of the proposed project is given in Figure 5.3.

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 sgencles, reviewing draft policy and planning. This department interacts with Maharastra 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.

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B C. COD, NH K. NOSH, Propagation) Compared efficient is used ETP. (Refer: Annexue-4 for Treated efficient monitoring report) VIII The company shall undertake following Waske Minimization measures: * Metering and control of quantities of active ingredients to minimize wasts * Metering and control of quantities of active ingredients to minimize wasts * Metering and control of public time process as item matching subbility in door * Use of data feed system its batch reads: * Use of class generated in the system its provided to smalls: * Use of class generated in the system its provided to smalls: * Use of class feed system its provided to smalls: * Use of class generated in the system its provided to smalls: * Use of class generated in the system its provided to smalls: * Use of class generated in the system its provided to smalls: * Use of class feed system its provided to smalls: * Use of class feed system its provided to smalls: * Use of class feed system its provided to smalls: * Use of class feed system its provided to small the expenses feed system its provided to small the class feed system its provided to small the expenses feed system its provided to small the							
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• Use of high pressure are boxes for equipment cleaning to rotice water water generation • Additional end and the equipment however directed to hist bystem. • We of high pressure are used to Software pressure pressure are used to Software pressure are used to			*Our IPA plant is a continuous process and closed filled system is provided to reactor.				
(4) The solid wate generated in the form ETP aludge shall be done and provide and the solid and all back of a solid wate generated in the future plant. Completed ETP aludge is being recycled as a filler infertitizer plant. (4) The project authorities shall afford; comply with the rules and guidelines under MSHC Rules, 1989 as an encled from the to the solid and the solid and all solid 2020s, is obtained from MPCB for collection, treatment, storage and disposal of hazardoov wates. All related provisions of MSHCR-1989 and HVMRR-2003, with their amendments are anothorized to placardoov wates. (1) Company shall develop suffactorio for na water harvesting structures to harvest runoff water for fail water harvesting system to provided at WNA 3 & 4 plants. Complex with. (2) Company shall develop suffactorio for na water harvesting system to provide at WAA 3 & 4 plants. Complex with. (2) Complex with. Complex with. Complex with. (3) Complex with. Complex with. Complex with. (4) Opcupational heath surveillance of the workers shall be done on a regular basis and records maintained developed as from hold compliance of ot degraded forest and is also developed at and the done on a regular basis and records maintained. Complex with. (4) A no time the emissions shall exceed the prescribed limits. In the event of failure of any pollution to the staff and resid and records are maintained. Complex with. (1) A no time the emissions shall exceed the pres							
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 amanded in October, 1994 and Jamuay 2000 and HWMH Rules, 2003 as amended from time to time. Autorization form the PSC Bailbe obtained for collection, treatment, storage and disposal of hazardous wates. Company and disposal of hazardous wates. Project autorities and and and and and and be prescribed limits. In the event of failure of any pollution control wytem stopies by an unit haunt shall be pol out of operation and shall not be restarted unit. No further expansion or modification in the plant should be carried out without port operation. No further expansion or modification in the plant should be carried out without port operation. No further expansion or modification in the plant should be carried out without pror approval of the divergend as per CPCB MECE Barver 4. The stack disk. S connected to CPCB and MCCB beaver 4. The stack disk. S connected to CPCB and CPCB were 4. The stack disk. S connected to CPCB MCCB server 4. The stack disk. S connected to CPCB MCCB server 4. The s	vii)						
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the adequacy of conditions imposed and to add additional environmental protection measures required, if any. https://withustana.com/withustanaa.com/withustana.com/withustana.com/withust							
if any. 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 the EP Act, 1986, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). MOEF approved 3rd party laboratory at six different locations and noise level is within the standards prescribed under the EP Act, 1986, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). 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 ELA 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 Environment and Monitoring functions. A separate Environmental Management Cell equipped with laboratory facilities. viii) The Company shall undertake welfare measures and community development measures for the local people in the vicinity of project area. Fund is utilized for implementakeing welfare measures and community development measures for the local people in the vicinity of project area.							
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people in the vicinity of project area. measures for the local people in the vicinity of project area.	viii)		The Company has been undertakeing welfare measures and community development				
	.,		measures for the local people in the vicinity of project area.				

SN	Specific Conditions	Complaince details (June 2023)
,	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.
	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.
	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.
	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
	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

E	nvironment Monitori	ng FY 202	2-23 (Qu	arterly)_N	NOEF&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:	Concente el Linelt-		00 Mar.	Aug 22	22 Mari	Fak 00	1	A. 10 11 11 11 11
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
		<u>g</u> ,e	-					-
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
СО		mg/Nm3		18.9	14.8	16	19.5	17.3
PM	10	mg/Nm3		Nil	NiL	4.2	0	2.1
Methanil Primary Reform								r
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	<u> </u>	1			1			
Paremeters	Consented Limits	UOM	Apr-21	Jul-21	Oct-21	Jan-23	Average	
	400	mg/Nm3	217.9	228.8	244.6	228.6		1
NO2 (Oxide of Nitrogen)		Kg/day	260.99		302.61	307.51		
Ammonia		mg/Nm3	23.8	18.94	25.6	22	22.585	



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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/22/10/196 Test R		est Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILIS PLOT K-1, PART-1, K-2, TALUKA – PANVEL, DIS		ION LTD.	
Letter Ref / Date	Page No.		1	of 1
Sampling Done By	GLPL	GLPL Sample Received on		0/2022
Sampling Plan	GLPL/QF/7.3/06 Analysis Period		17/10/2022	Го 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	
Oulahun Disuida	mg/Nm ³	78.9		
Sulphur Dioxide	ppm v/v	30.1	IS 11255 (Part II) 1985	
NOx + 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.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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Test Report shall not be reproduced except in full, without written approval of the laboratory.
 Samples will be preserved for a period 15 days from the delivery of Test Report.
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5. Customer complaint register is available at laboratory.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/10/195 Test R		st Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILIS PLOT K-1, PART-1, K-2, TALUKA – PANVEL, DIS		ION LTD.	
Letter Ref / Date		1	of 1	
Sampling Done By	GLPL	Sample Received on	15/10	0/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	17/10/2022	Го 19/10/2022

SAMPLING DETAILS - STACK EMISSION

S-10
Methanol Plant D. G. Set (1000 KVA)
280
Flue Gas Stack
14/10/2022
11:40
138
8.9
1427

ANALYSIS REPORT :

Parameters	Unit	Results	Limits	Sampling & Analysis Methods
PM	g/kW-hr	0.0688	<u>≤</u> 0.2 **	IS 11255 (Part I) 1985
	mg/Nm ³	120.8		7
Sulphur Dioxide	ppm v/v	46.1		IS 11255 (Part II) 1985
	Kg/day	4.13	80.0 *	
NOx + THC	g/kW-hr	0.1016	<u>≤</u> 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.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/10/194 Test R		st Report Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILIS PLOT K-1, PART-1, K-2 TALUKA – PANVEL, DIS		ION LTD.	
Letter Ref / Date		1	of 1	
Sampling Done By	GLPL	Sample Received or	n 15/10	0/2022
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
	mg/Nm ³	110.9		
Sulphur Dioxide	ppm v/v	42.4		IS 11255 (Part II) 1985
	Kg/day	1.71	16.0 *	
NOx + THC	g/kW-hr	0.2031	<u>≤</u> 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

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/10/193 Test Repo		eport Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILIS PLOT K-1, PART-1, K-2 TALUKA – PANVEL, DI		ORATION LTD.	
P.O. No. / Date			1 of 2	
Sampling Done By	GLPL	Sample Received on		/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/202	2 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	
	ppm	130.2		IS 11255 (Part VII) 2005
	Kg/day	302.61		
Ammonia	mg/Nm ³	25.6	Not Specified IS 11255 (Part VI	
	ppm v/v	36.9		IS 11255 (Part VI) 1999
	Kg/day	31.61		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No: GLPL/QF/7.8/02

Test Report No.	GA/22/10/1	93 Test Re	port 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.		2 of 2
Sampling Done By	GLPL	Sample Received on	13	/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/202	2 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	
	Kg/day	3.82		IS 11255 (Part I) 1985

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 Tes	t Report Date	21/11/2022
Customer Name and Address		-ISERS AND PETROCH -2, K-3, K-4, K-5 & K-6, DIST. – RAIGAD.		ORATION LTD.
P.O. No. / Date		Page No.		1 of 1
Sampling Done By	GLPL	Sample Received of	on 15/	11/2022
Sampling Plan	npling Plan GLPL/QF/7.3/06		16/11/2022	2 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 [ºC]	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			
	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nil			
NOx	mg/Nm ³	17.5	350.0	IS 11255 (Part VII) 2005	
	ppm v/v	9.3			
	Kg/day	7.72			
со	mg/Nm ³	17.4			
	ppm	15.2		APHA Edition II-134	
	Kg/day	7.68			

End

For GADARK LAB PVT. LTD.

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Recognised by Ministry of Environment, Forest and CC, Government of India, vide Gazette Notification No. 3221, dated 24th August 2021, valid upto 15th October 2023. ISO 9001 : 2015 Certified & ISO 45001 : 2018 Certified.



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/22/11	1/205 T	est Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LT 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		of 1		
Sampling Done By	GLPL	Sample Received	on 15/1	1/2022
Sampling Plan	GLPL/QF/7.3/06			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
DM	mg/Nm ³	Nil	10.0	
PM	Kg/day	Nil		IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	Nil	(#.17	
	ppm v/v	Nil		IS 11255 (Part II) 1985
	Kg/day	Nil	1991 1996	
	mg/Nm ³	162.5	350.0	
NOx	ppm v/v	86.5	1 C	IS 11255 (Part VII) 2005
	Kg/day	232.50		
	mg/Nm ³	34.4		
со	ppm	30.0		APHA Edition II-134
	Kg/day	49.17		

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11	1/206 T	est Report Date	21/11/2022	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION L 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	d 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 [ºC]	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
РМ	mg/Nm ³	Nil	10.0	
	Kg/day	Nil		IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	Nil		
	ppm v/v	Nil		IS 11255 (Part II) 1985
	Kg/day	Nil	**	
	mg/Nm ³	169.6	350.0	
NOx	ppm v/v	90.3		IS 11255 (Part VII) 2005
	Kg/day	277.31		
СО	mg/Nm ³	32.1		
	ppm	28.0		APHA Edition II-134
	Kg/day	52.43	1	

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	1/207 T	est Report Date	21/11/2022	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LT 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 [ºC]	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	IC 11255 (Dort I) 1085	
	Kg/day	Nil		IS 11255 (Part I) 1985	
Sulphur Dioxide	mg/Nm ³	Nil	1		
	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nit			
	mg/Nm ³	16.6	350.0		
NOx	ppm v/v	8.8		IS 11255 (Part VII) 2005	
+ + +	Kg/day	20.94			
	mg/Nm ³	18.9			
CO	ppm	16.5		APHA Edition II-134	
	Kg/day	23.83			

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11	/204 Tes	t Report Date	21/11/2022	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LT 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 o	n 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 [ºC]	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	
	Kg/day	Nil		IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	Nil		
	ppm v/v	Nil		IS 11255 (Part II) 1985
	Kg/day	Nil		
	mg/Nm ³	17.5	350.0	
NOx	ppm v/v	9.3		IS 11255 (Part VII) 2005
	Kg/day	7.72		
	mg/Nm ³	17.4	-	
CO	ppm	15.2		APHA Edition II-134
	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	est Report Date	21/11/2022	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LT 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		of 1		
Sampling Done By	Page No. GLPL Sample Received on		on 15/1	1/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	d 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	
DM	mg/Nm ³	Nil	10.0		
PM	Kg/day	Nil		IS 11255 (Part I) 1985	
	mg/Nm ³	Nil	(#.17		
Sulphur Dioxide	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nil	1991 1996		
	mg/Nm ³	162.5	350.0		
NOx	ppm v/v	86.5	1 C	IS 11255 (Part VII) 2005	
	Kg/day	232.50			
	mg/Nm ³	34.4			
со	ppm	30.0		APHA Edition II-134	
	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	1/206 T	est Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION L 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	on 15/	11/2022	
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	d 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 [ºC]	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	
РМ	mg/Nm ³	Nil	10.0		
	Kg/day	Nil		IS 11255 (Part I) 1985	
	mg/Nm ³	Nil			
Sulphur Dioxide	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nil	**		
	mg/Nm ³	169.6	350.0		
NOx	ppm v/v	90.3		IS 11255 (Part VII) 2005	
	Kg/day	277.31			
	mg/Nm ³	32.1			
со	ppm	28.0		APHA Edition II-134	
	Kg/day	52.43	1		

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	1/207 T	est Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTII PLOT K-1, PART-1, K TALUKA – PANVEL,	-2, K-3, K-4, K-5 & K-6		ORATION LTD.
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 [ºC]	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	IC 11255 (Dort I) 1085	
	Kg/day	Nil		IS 11255 (Part I) 1985	
	mg/Nm ³	Nil	1		
Sulphur Dioxide	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nit			
	mg/Nm ³	16.6	350.0		
NOx	ppm v/v	8.8		IS 11255 (Part VII) 2005	
+ + +	Kg/day	20.94			
	mg/Nm ³	18.9			
CO	ppm	16.5		APHA Edition II-134	
	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	est Report Date	21/11/2022	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LT 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		of 1		
Sampling Done By	Page No. GLPL Sample Received on		on 15/1	1/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	d 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	
DM	mg/Nm ³	Nil	10.0		
PM	Kg/day	Nil		IS 11255 (Part I) 1985	
	mg/Nm ³	Nil	(#.17		
Sulphur Dioxide	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nil	1991 1996		
	mg/Nm ³	162.5	350.0		
NOx	ppm v/v	86.5	1 C	IS 11255 (Part VII) 2005	
	Kg/day	232.50			
	mg/Nm ³	34.4			
со	ppm	30.0		APHA Edition II-134	
	Kg/day	49.17			

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/11	1/206 T	est Report Date	21/11/2022	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION 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		1 of 1			
Sampling Done By	GLPL Sample Received on		on 15/	11/2022	
Sampling Plan	GLPL/QF/7.3/06 Analysis Period		d 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 [ºC]	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	
DM	mg/Nm ³	Nil	10.0		
PM	Kg/day	Nil		IS 11255 (Part I) 1985	
	mg/Nm ³	Nil			
Sulphur Dioxide	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nil	*		
	mg/Nm ³	169.6	350.0		
NOx	ppm v/v	90.3		IS 11255 (Part VII) 2005	
	Kg/day	277.31			
со	mg/Nm ³	32.1			
	ppm	28.0		APHA Edition II-134	
	Kg/day	52.43	1		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/1	est Report Date	12/12/2022	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION 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 08/1	2/2022
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	
DM	mg/Nm ³	0.9	10.0		
PM	Kg/day	1.26		IS 11255 (Part I) 1985	
	mg/Nm ³	Nil	14	-	
Sulphur Dioxide	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nit	10		
	mg/Nm ³	121.4	350.0		
NOx	ppm v/v	64.6		IS 11255 (Part VII) 2005	
	Kg/day	170.63			
со	mg/Nm ³	29.8			
	ppm	26.0		APHA Edition II-134	
	Kg/day	41.85			

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [KAILAS V. CHITALKAR]

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5. Customer complaint register is available at laboratory.

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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/22/1	2/53 T	est Report Date	12/12/2022	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION I 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		1	1 of 1		
Sampling Done By	GLPL	Sample Received	on 08/	12/2022	
Sampling Plan	GLPL/QF/7.3/06			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	
	mg/Nm ³	1.1	10.0	10 11255 (Dort I) 1085	
PM	Kg/day	1.89		IS 11255 (Part I) 1985	
	mg/Nm ³	Nil	2.400 C		
Sulphur Dioxide	ppm v/v	Nil ,		IS 11255 (Part II) 1985	
	Kg/day	Nil	- C -		
	mg/Nm ³	17.9	350.0		
NOx	ppm v/v	9.5		IS 11255 (Part VII) 2005	
	Kg/day	30.66			
со	mg/Nm ³	14.8			
	ppm	12.9		APHA Edition II-134	
	Kg/day	25.37			

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/12/326 Test Report		oort Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILI PLOT K-1, PART-1, K-2 TALUKA – PANVEL, D			
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	22/12/202	2 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			
	ppm	17.3		IS 11255 (Part VII) 2005	
	Kg/day	0.060			
Ammonia	mg/Nm ³	17.7			
	ppm v/v	25.4		IS 11255 (Part VI) 1999	
	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/22/12/3	27 Test Rep	ort Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION L 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	GLPL Sample Received on		/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/202	2 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 Tes		ort Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION I 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		22/12/202	2 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_

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/1	2/52 T	est Report Date	12/12/2022
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K- TALUKA – PANVEL, D	2, K-3, K-4, K-5 & K-6,		RATION LTD.
P.O. No. / Date	Page No.		1	of 1
Sampling Done By	GLPL	Sample Received	on 08/1	2/2022
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
DM	mg/Nm ³	0.9	10.0	
PM	Kg/day	1.26		IS 11255 (Part I) 1985
	mg/Nm ³	Nil	14	-
Sulphur Dioxide	ppm v/v	Nil		IS 11255 (Part II) 1985
	Kg/day	Nit	10	
	mg/Nm ³	121.4	350.0	
NOx	ppm v/v	64.6		IS 11255 (Part VII) 2005
	Kg/day	170.63		
со	mg/Nm ³	29.8		
	ppm	26.0		APHA Edition II-134
	Kg/day	41.85		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/22/1	2/53 T	est Report Date	12/12/2022	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LT 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			1 of 1	
Sampling Done By	GLPL	Sample Received	on 08/	12/2022	
Sampling Plan	GLPL/QF/7.3/06			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
	mg/Nm ³	1.1	10.0	IS 11255 (Dort I) 1085
PM	Kg/day	1.89		IS 11255 (Part I) 1985
	mg/Nm ³	Nil	2.400 C	
Sulphur Dioxide	ppm v/v	Nil ,		IS 11255 (Part II) 1985
	Kg/day	Nil	- C -	
	mg/Nm ³	17.9	350.0	
NOx	ppm v/v	9.5		IS 11255 (Part VII) 2005
	Kg/day	30.66		
со	mg/Nm ³	14.8		
	ppm	12.9		APHA Edition II-134
	Kg/day	25.37		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No: GLPL/QF/7.8/02

Test Report No.	GA/23/01/2	87	Test Re	oort Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILIS PLOT K-1, PART-1, K-2, TALUKA – PANVEL, DI	, K-3, K-4, K-5	& K-6, MIDO		ORATION LTD.
P.O. No. / Date	A NAME	Page	No.		1 of 2
Sampling Done By	GLPL	Sample Re	ceived on	17	/01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis	Period	18/01/202	3 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	
	mg/Nm ³	228.6	400.0	12 Providence	
	ppm	121.6	1000	IS 11255 (Part VII) 2005	
	Kg/day	307.51	Selle Man		
man	mg/Nm ³	22.0	Card and	A SUNRY	
Ammonia	ppm v/v	31.7	Not Specified	IS 11255 (Part VI) 1999	
	Kg/day	29.53			

End_

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/01/2	87	Test Repo	rt Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILIS PLOT K-1, PART-1, K-2, TALUKA – PANVEL, DI	, K-3, K-4, K-5	& K-6, MIDC T		DRATION LTD.
P.O. No. / Date	all's Van	Page	e No.		2 of 2
Sampling Done By	GLPL	Sample Re	eceived on	17.	/01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis	s Period 1	8/01/202	3 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
DM 2001	mg/Nm ³			
PM	Kg/day	3.48	Not Specified	IS 11255 (Part I) 1985

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	2/101 T	est Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTII PLOT K-1, PART-1, K TALUKA – PANVEL,	-2, K-3, K-4, K-5 & K-		ORATION LTD.
P.O. No. / Date	Page No. 1 of 1			
Sampling Done By	GLPL	Sample Received	on 10/0	02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	d 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	
DM	mg/Nm ³	4.2	10.0		
PM	Kg/day	5.45		IS 11255 (Part I) 1985	
Sulphur Dioxide	mg/Nm ³	Nil	1		
	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nil			
	mg/Nm ³	15.5	350.0		
NOx	ppm v/v	8.3		IS 11255 (Part VII) 2005	
	Kg/day	20.15			
CO	mg/Nm ³	16.0			
	ppm	14.0		APHA Edition II-134	
	Kg/day	20.81		·	

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/02/98 Te		est Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTII PLOT K-1, PART-1, K TALUKA – PANVEL,	-2, K-3, K-4, K-5 & K-		ORATION LTD.
P.O. No. / Date	Page No. 1 of 1			
Sampling Done By	GLPL	Sample Received	on 10/0)2/2023
Sampling Plan	GLPL/QF/7.3/06			

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	
DM	mg/Nm ³	2.1	10.0		
PM	Kg/day	2.78		IS 11255 (Part I) 1985	
mg/Nm ³ Nil					
Sulphur Dioxide	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nil	4. 5. A		
	mg/Nm ³	16.1	350.0		
NOx	ppm v/v	8.5		IS 11255 (Part VII) 2005	
	Kg/day	21.30	L		
-	mg/Nm ³	18.9			
со	ppm	16.5		APHA Edition II-134	
	Kg/day	25.05			

End

For GADARK LAB PVT. LTD.

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Note :

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3. Samples will be preserved for a period 15 days from the delivery of Test Report.

Test Results relate only to the conditions prevailing at the time of sampling,
 Customer complaint register is available at laboratory.

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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/23/0	est Report Date	16/02/2023		
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTE 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		1	of 1		
Sampling Done By	GLPL Sample Received on		on 10/0)2/2023	
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	
DIA	mg/Nm ³	1.6	10.0		
PM	Kg/day	2.30		IS 11255 (Part I) 1985	
	mg/Nm ³	Nil	114 114		
Sulphur Dioxide	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nil			
	mg/Nm ³	108.9	350.0		
NOx	ppm v/v	58.0		IS 11255 (Part VII) 2005	
~	Kg/day	156.79			
со	mg/Nm ³	32.1			
	ppm	28.0		APHA Edition II-134	
	Kg/day	46.17			

End

For GADARK LAB PVT. LTD.

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5. Customer complaint register is available at laboratory.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/02	est Report Date	16/02/2023		
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION 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		1	of 1		
Sampling Done By	GLPL Sample Received on		on 10/0	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-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	
514	mg/Nm ³	2.3	10.0		
PM	Kg/day	3.83		IS 11255 (Part I) 1985	
5	mg/Nm ³	Nil	6		
Sulphur Dioxide	ppm v/v	Nil		IS 11255 (Part II) 1985	
	Kg/day	Nil	*		
	mg/Nm ³	144.6	350.0		
NOx	ppm v/v	77.0		IS 11255 (Part VII) 2005	
	Kg/day	240.57			
со	mg/Nm ³	28.6	-		
	ppm	25.0		APHA Edition II-134	
	Kg/day	47.63			

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/DF/0332	/23 Test Re	oort Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILI PLOT K-1, PART-1, K-2 TALUKA – PANVEL, D			
P.O. No. / Date		Page No.		1 of 1
Sampling Done By	GLPL Sample Received on		n 09/03/2023	
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/202	23 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			
	ppm	18.5		IS 11255 (Part VII) 2005	
	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

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No: GLPL/QF/7.8/02

Test Report No.	GA/DF/0333	/23 Test Rep	oort Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILI PLOT K-1, PART-1, K-2 TALUKA – PANVEL, D			
P.O. No. / Date		Page No.		1 of 1
Sampling Done By	GLPL Sample Received on		09	9/03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/202	23 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			
	ppm	16.7		IS 11255 (Part VII) 2005	
	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 1	Test Rep	ort Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LT PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.				PORATION LTD.
P.O. No. / Date		Page No.		b	1 of 1
Sampling Done By	GLPL	Sample Received on		09	/03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis P	eriod	10/03/202	3 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		
	mg/Nm ³	42.9	1			
NOx	ppm	22.8		IS 11255 (Part VII) 2005		
	Kg/day	0.08				
	mg/Nm ³	13.4	100 - 11			
Ammonia	ppm v/v	19.2		IS 11255 (Part VI) 1999		
	Kg/day	0.02				

End

For GADARK LAB PVT. LTD.

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TEST REPORT

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

Test Report No.	GA/22/10/197		eport 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	494	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	2 To 19/10/2022	

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

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

ANALYSIS REPORT :-

Parameters	Unit	Results	'N.A.A.Q.S.	Sampling & Analysis Methods
PMin	ug/m ^a	59.97	100.0	IS 5182 (Part XXIII) 2006
PM25	µg/m ^a	28.63	60.0	USEPA FEM, 40 CFR Part 50, Appendix 1, 2014-2018
SO	rm/ma	33.57	80.0	15 5162 (Part #) 2001
NO2	µg/m ³	39.10	80.0	18 51 kill (Part VI) 2006
CO	mg/m ²	1.21	2.0 for 8 Hrs.	15 5182 (Part X) 1999
Lead	µg/m ²	0.10	1.0	45.5102 (Part XXII) 2004
Özone	µg/m ⁷	14.56	100.0 for 8 Hrs.	IBC Method of Air Baropling & Analysia 3* Edition, Method 411 2011
Ammonia	µg/m ³	17.79	400.0	ISC Method at Air Sampling & Analysis 3 [#] Edition, Method 401 20#
Benzene	hð\w_s	< 1.Q	5.0	85 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.7	1.0	IS 5182 (Part XII):2004
Arsenic	⁶ m/ga	< 0.4	6,0	15 5182 (Part XXII) 2004
Nickel	ng/m ^a	10.89	20.0	15 5182 (Part XXII) 2004
Hydrocarbon	µg/m ^a	< 1.0	Not Specified	15 5182 (Part XVII) 1979
Fluoride	mg/m ^a	< 0.010	Not Specified	15:5182 (Part XIII) 1001
SOa	μg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ²	< 1.0	Not Specified	By Morrie B. Jacob
HCI	µg/m ³	< 1.0	Not Specified	By Marris 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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

1. The results relate only to free samples leaded

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5. Customer committel register is systères al laboratory

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TEST REPORT

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

Test Report No.	GA/22/10/1	98 Test Re	eport Date	19/10/2022
Customer Name and Address		RS AND PETROCHEMICALS -3. K-4, K-5 & K-6, MIDC TA . – RAIGAD.		ON LTD.
P.O. No. / Date		Page No. 1 of 1		
Sampling Done By	GLPL	Sample Received on 13/10/202		10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period 14/10/2022 Te		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 [%]			
(Hts)	[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 ₁₆	ug/m ³	55.83	100.0	IS 5182 (Part XXIII) 2006.
PM25	µg/m ³	27.91	60.0	USEPA FEM, 40 CFR Part 50; Appendix-L 2014-2016
SO:	µg/m ¹	28.76	80.0	15 5142 (Part 8) 2901
NO ₂	µg/m ³	36.14	80.0	IS 51112 (Part VI) 7006
CO	mg/m ²	1.14	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ²	0.13	1.0	15-5182 (Part XXII) 2004
Ozone	µg/m ³	12.88	100.0 for 8 Hrs.	ISC Melhod of Alr Earnpling & Analysis 24 Edition. Method 411 2016
Ammonia	µg/m ³	17.54	400.0	ISC Method of Air Sampling & Analysis 3* Edition. Method 401 2018
Benzene	µg/m ³	< 1.0	5.0	65 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0,1	1.0	15 £182 (Pn# XI); 2004
Arsenic	ng/m ³	< 0.4	6.0	15 5162 (Part XXII) 2004
Nickel	ng/m ³	9.13	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ^a	< 1.0	Not Specified	15 5182 (Part XVII) 1979
Fluoride	mg/m?	< 0.010	Not Specified	IS \$182 (Part XIII) 1991
SO3	µg/m ^a	< 6.0	Not Specified	ASTM B 3226
Acid Mist	µg/m²	< 1.0	Not Specified	By Monte 5. Jacob
HICI	µg/m ³	< 1.0	Not Specified	By Marili 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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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2 Test Papert shall not be reportinged except a full, without writes approval of the latoratory.

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TEST REPORT

Doc.No - GLPL/QF/7.8/03

Test Report No.	GA/22/10/1	99 Test I	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	V10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/202	2 To 19/10/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near WNA III Plant Area 11/10/2022				
Date of Sampling						
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [9		
[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 5187 (Part XXIII) 2006
PM _{2.6}	µg/m ^a	30.55	60.0	USEPA FEM, 40 CFR Part S0, Appendix-1, 2014-2010
SÖr	µg/m ²	26.48	80.0	15.5182 (Part II) 2001
NO	^p im/gų	35.32	80.0	85-51.62 (Part VI) 2006
CO	mg/m ³	1.17	2.0 for 8 Hrs.	15 5182 (Paul X) 1999
Lead	µa/m ³	0.10	1.0	15 5182 (Part XXII) 2004
Ozone	µg/m?	7.84	100.0 for 8 Hrs.	ISIS Method of Air Sampling & Analysis 3* Edition, Method 411 2018
Ammonia	µg/m ³	15.96	400.0	ISC Method of Air Sampling & Analysis D* Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	15 5182 (Part XI) 2006
Benzo Pyrene	ng/m³	< 0.1	1.0	15 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	15 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	15-5162 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	15 5182 (Part XIII) 1991
SOa	.pg/m ⁸	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µa/m ²	< 1.0	Not Specified	By Marris 6. Jacob
HCI	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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Note :

1. The results made only is the samples leaded.

2 Trail Report shall not be reproduced incorprisited and the approval of the aboratory,
 3 Sampler, will be processed for a particul 15 days from the dativary of Leat Report
 4 Test Remarks million only to the conditional prevailing of the arm of sampling.

5. Carolomer compliant register is available at laboratory

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TEST REPORT

Doc No GLPL/QF/7 8/03

Test Report No.	IGA/22/10/200 Tes		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.			TION LTD.
P.O. No. / Date	_	Page No.		1 011
Sampling Done By	GLPL	Sample Received of	n 13	3/10/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	14/10/202	2 To 19/10/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near Acid Tank Farm Area					
Date of Sampling			11/10/20	022			
Time of Sampling	Duration of Sampling	Ambient Temperature [PC]		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 (Pari XXIII) 2006
PM _{2.5}	µg/m ^a	27.54	60,0	USEPA FEM, 40 CFR Part 50, Appondo-L, 2014-2010
SO ₂	µg/m ²	28.29	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ⁵	33.65	80.0	15 5182 (Part VI) 2005
CO	ing/m ^a	1.10	2.0 for 8 Hrs.	LS 5182 (Part X) 1899
Lead	µg/m ³	0.11	1.0	15 5102 (Part XXII) 2004
Ozone	µg/m ³	10.64	100.0 for 8 Hrs.	ISC Method of Air Samping & Analysis 3 th Edillice, Method 411 2016
Ammonia	µg/m ³	20.38	400.0	ISC Method of Air Sampling & Analysis 3" Edition. Method 401 2015
Banzene	µg/m ³	< 1.0	5,0	15 5182 (Part XI) 2008
Benzo Pyrene	กฎ/กา ^ล	< 0.1	1.0	15 5102 (Part XII):2004
Arsenic	ng/m ²	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m²	3.97	20.0	15 5182 (Part XXII) 2004
Hydrocarbon	µg/m ^o	< 1.0	Not Specified	IS \$102 (Park XVII) 1979
Fluoride	mg/m ¹	< 0.010	Not Specified	15 5182 (Part XIII) 1991
SO ₂	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ^a	< 1.0	Not Specified	By Morria B. Jacob
HCI	µa/m³	< 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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

1. The results million only to the subriples hosted

2. Test Report shall not se reportuded except in full, without written approval of itra locarsiary.

3. Tuespies will be presidented for a period 16 days been the perivery of Test Plapoit.

 Less Results actuals only in the conditions passaling at the late of sampling 5. Galaxies compliant register is available of biconstary.

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OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroll (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 Te		leport Date	21/11/2022
Customer Name and Address	The second s	RS AND PETROCHEMICA K-3, K-4, K-5 & K-6, MIDC 1 T. – RAIGAD.		TION LTD.
P.O. No. / Date		Page No.		1 of 1
Sampling Done By	GLPI.	Sample Received on	14	5/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/202	2 To 21/11/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near Methanol Gate					
Date of Sampling			14/11/20	122			
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) 2008
PM2.5	µg/m ^a	31.91	60.0	USEPA FEM, 40 GFR Part 50, Appendix-L, 2014-2018
SO ₂	µg/m ³	30.91	80.0	15 5182 (Part II) 2001
NO ₂	µg/m ³	37.83	80.0	IS 5182 (Part VI) 2008
CO	mg/m ⁵	1,20	2.0 for 8 Hrs.	15 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* Edition, Method 411 2016
Ammonia	hð/m3	19.79	400.0	ISC Method of Air Sampling & Analysis 3 st 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 ²	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 ^a	< 1.0	Not Specified	By Monts B. Jacob
HCI	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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

1. The results relate only to the samples tested.

2. Test Report shall not be reproduced except in NJL without writen approval of the faboratory.

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 line of sampling.

5. Customer complaint register is available at laboratory.

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DFF: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vidwall (West), Mambal - 83, Tal. (022) 2577 7069 / 2577 7070 / 2085 0061 • #91 93213 12367

TEST REPORT

Doc No: GLPL/OF/7.8/03

Test Report No.	GA/22/11/209		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	11	5/11/2022
Sampling Plan	GLPL/QF/7.3/06 Analysis P		15/11/202	2 To 21/11/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near IPA Gate					
Date of Sampling			14/11/2	022			
Time of Sampling	Duratian of Sampling	Ambient Temperature [PC]		Relative Humidity			
[Hrs]	[Hrs]	Min.	Мах.	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 ²	59.57	100.0	IS 5162 (Part XXIII) 2006
PM25	µg/m ³	30.00	60.0	USEPA FEM, 48 CFR Part 50, Appendix-L, 2014-2016
SO:	µg/m ^g	30.15	0.08	15 5182 (Part II) 2001
NO ₂	µg/m ¹	37.32	80.0	15 5182 (Part VI) 2006
60	mg/m ²	1.17	2.0 for 8 Hrs.	15.5162 (Part X) 1999
Lead	µg/m ³	0.13	1.0	15 5182 (Part XXII) 2004
Ozone	µg/m²	14.00	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3* Edition, Minhod 411 2014
Ammonia	µg/m ³	17.17	400.0	ISC Method of Air Sampling & Analysis 3" Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS \$162 (Pan \$7) 2008
Benzo Pyrene	ng/m ³	< 0.1	1.0	15 5182 (Part Kil):2004
Arsenic	ng/m ^a	< 0.4	6.0	IS 5187 (Part XXII) 2004
Nickel	ng/m ³	9.26	20.0	IS \$182 (Part XXII) 2004
Hydrocarbon	µg/m ^a	< 1.0	Not Specified	15 5182 (Par XVII) 1970
Fluoride	mg/m ³	< 0.010	Not Specified	IS \$182 (Part XIII) 1891
SO3	µg/m ^a	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ^a	< 1.0	Not Specified	By Mamis B. Jacob
HGI	µg/m ^a	< 1.0	Not Specified	By Month B. Jincole

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

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For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

1. The results relate only to the samples bisted.

2. Test Report shall not be reproduced except in full, without written approval of the later why

3. Simples will be preserved for a period 15 data from the pelvery of Test Report.

4 Test Results rulate only to the conditions prevailing at the line of sampling

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TEST REPORT

Doc No : GLPL/OF/7.8/03

Test Report No.	GA/22/11/210 Test Re		eport Date	21/11/2022
Customer Name and Address		RS AND PETROCHEMICA K-3, K-4, K-5 & K-6, MIDC T T. – RAIGAD.		TION LTD.
P.O. No. / Date		Page No.		1 of 1
Sampling Done By	GLPL	Sample Received on	15	5/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/202	2 To 21/11/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near WNA III Plant Area					
Date of Sampling			14/11/20	022			
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	15 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ²	33.42	60.0	USEPA FEM, 40 CFR Part 60, Appendix-L, 2014-2016
SO ₂	µg/m³	27.42	80,0	15 5182 (Pairt II) 2001
NO ₂	µg/m ³	34.96	80.0	15 5182 (Part VI) 2006
CO	mg/m ³	1.04	2.0 for 8 Hrs.	15 5182 (Part X) 1999
Lead	µgim ³	0.14	1.0	15 5182 (Part XXII) 2004
Ozone	µg/m ³	10.64	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 ^{er} Edition, Method 411 2016
Ammonia	µg/m ⁸	15.96	400.0	ISC Method of Air Sampling & Analysis 3 st Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	45 5182 (Part XI) 2000
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 ^a	7.60	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1070
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO3	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m³	< 1.0	Not Specified	By Monis B. Jacob
HCI	µg/m³	< 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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

1. The repults rolate only to the samples technol.

Test Report shall not be reproduced except in full, without written approval of the laboratory.
 Samples will be preserved for a period 15 days from the belivery of Test Report.
 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/22/11/211		Report Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISE PLOT K-1, PART-1, K-2, TALUKA – PANVEL, DIS	K-3, K-4, K-5 & K-6, MIDC		TION LTD.
P.O. No. / Date		Page No.		1 of 1
Sampling Done By	GLPL	Sample Received or	n 12	5/11/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/11/202	2 To 21/11/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near Acid Tank Farm Area					
Date of Sampling			14/11/20	022			
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
PM10	µg/m ³	59.13	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	29.67	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2018
SO ₂	µg/m ³	30.55	80.0	45 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.	4S 5182 (Part X) 1999
Lead	µg/m ²	0.13	1.0	15 5182 (Part XXII) 2004
Ozone	µg/m ³	12.88	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3" Edition, Method 411 2016
Ammonia	µg/m ²	21.71	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 (2016
Banzene	µg/m ²	< 1.0	5.0	45 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS:5182 (Part XII):2004
Arsenic	ng/m ²	< 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 \$182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ^a	< 1.0	Not Specified	By Monta B. Jacob
HCI	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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

5. The results relate only to the samples lasted.

Test Report shall not be reproduced except in Tuil, without written approval of the laboratory.
 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. Castomer complaint nepider is available at taboratory.

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TEST REPORT

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

Test Report No.	GA/22/12/329 T		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	2	1/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/202	2 To 27/12/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING

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

ANALYSIS REPORT :-

Parameters	Unit	Results	"N.A.A.Q.S.	Sampling & Analysis Methods
PMID	µg/m ³	65.89	100.0	IS 5182 (Part XXIII) 2008
PM25	µg/m ³	33.51	60.0	USEPA FEM, 40 CFR Part 50, Appendia-L, 2014-2016
SOr	µg/m ²	32.72	80.0	IS 5162 (Part II) 2001
NO ₂	Hðius,	38.66	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.16	2.0 for 8 Hrs.	15 5182 (Part X) 1999
Lead	µg/m ^b	0.13	1.0	15 5182 (Part XXII) 2004
Ozone	µg/m ⁷	7.07	100.0 for 8 Hrs.	ISC Method of Air Dampiing & Analysis 3* Edition, Method 411 2016
Ammonia	µg/m ³	22.04	400.0	ISC Method of Air Sampling & Analysis 3" Edition, Method 401 2016
Benzene	µg/m ^a	< 1.0	5.0	IS 5162 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	15 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ¹	6,10	20.0	IS 5102 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	15 5182 (Part XVII) 1978
Fluoride	mg/m ²	< 0.010	Not Specified	4S 5102 (Part XIII) 1101
SO3	µg/m ³	< 8.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Mome B. Jacob
HCI	µg/m ^s	< 1.0	Not Specified	By Monia B. Jacob

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

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note:

1. The results relians only to the samples lester.

2. Test Report shall not be repeatuced except in full, without written approval of the laboratory

3. Samples will be pressreed for a period 15 days from the delivery of Test Report.

4. Test Results relate only to the contribut prevailing at the time of sampling.

5. Cuttomer constant register is available or laboratory

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INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

Doc.No : GLPL/OF/7.8/03

CHECKED BY

Test Report No.	GA/22/12/330 Te		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	1/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/202	2 To 27/12/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near IPA Gate					
Date of Sampling			19/12/20	19/12/2022			
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Hu	midity [%]		
[Hrs]	[Hrs]	Min.	Max	Min	Max		
11:20	24	24	32	41	70		

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PMIn	µg/m ^a	60.89	100.0	IS-5182 (Part XXIII) 2006
PM25	µg/m ³	33 68	60.0	USEPA FEM, 40 CFR Part 50, Appendix 4, 2014-2018
SO:	µg/m ³	28.36	80.0	15 5182 (Part 8) 2001
NO ₂	µg/m²	35.98	80.0	IS 5162 (Pain VI) 2006
CO	mg/m ³	1.20	2.0 for 8 Hrs.	15 5182 (Part X) 1999
Lead	µg/m ³	0.11	1.0	15 5102 (Part XXII) 2004
Ozone	µg/m ³	11.05	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 34 Edition. Method 411 2018
Ammonia	µg/m ³	19.42	400.0	ISC Method of Air Sampling & Analysis 3 ^{et} Edition, Method 401 2016
Benzerie	µg/m ^a	< 1.0	5.0	HS 5162 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	15 5182 (Part XII) 2004
Arsenic	ng/m ^a	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ²	11.14	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ^a	< 0.010	Not Specified	IS 5162 (Part XIII) 1991
SOs	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Monts B. Jacob
HCI	µg/m²	< 1.0	Not Specified	By Morris B Jacob

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

End

For GADARK LAB PVT, LTD,

ATTELL

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note:

1. The results reliate only to the numples tested

2. Test Report shall not be reproduced except in full, without written approval of the balancery.

3. Samples will be preserved for a paried 15 days from the deliving of Test Flagori.

4 Treal Revails mitate only to the conditions prevailing at the time of sampling

5. California complaint register in available at later play -

Recognised by Ministry of Environment, Forest and CC: Government of India, vide Gazette Notification No. 3221. dated 24th August 2021, valid upto 15th October 2023, ISO 9001 : 2015 Certified & ISO 45001 : 2018 Certified.



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

TEST REPORT

Dog.No : GLPL/QE/7.8/03

Test Report No.	GA/22/12/331 Test R		Report Date	27/12/2022
Customer Name and Address		RS AND PETROCHEMICA K-3, K-4, K-5 & K-6, MIDC T. – RAIGAD.		TION LTD.
P.O. No. / Date		Page No.	C 0	1 of 1
Sampling Done By	GLPL	Sample Received on	21	1/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/202	2 To 27/12/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING 1-

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
PMID	pg/m ³	62.37	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ²	32.46	60.0	USEPA PEM, 40 CFR Part 50, Appendia-L, 2014-2016
SO2	µg/m ²	30.44	80.0	IS S182 (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 5152 (Pairt X) 1999
Lead	µg/m ^b	0.14	1.0	15 5152 (Part XXII) 2004
Ozone	µg/m³	8,40	100.0 for 8 Hrs.	ISD Method of Air Sampling & Analysis 3" Edition, Method 413 2016
Ammonia	µg/m ²	20.71	400.0	ISC Method of Air Sampling & Analysis 3" Edition, Method 401 2016
Benzene	pg/m ²	< 1.0	5.0	15 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	15 5182 (Part XII) 2004
Arsenic	ng/m ²	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m²	9.95	20.0	15 \$182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	15 5102 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Port XIII) 1991
SO ₂	µg/m³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ¹	< 1.0	Not Specified	By Monte B. Jacob
HCI	µg/m ¹	< 1.0	Not Specified	By Maizis 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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

1. The recalls recall only to the samples mated.

Test Report shall onlide legislatured except in fail, without writes approval of the laboratory.
 Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Test Reputs only in the conditions prevailing at the trip of namping. 5. Cantorne complaint register is available at laboratory.

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TEST REPORT

Doc No: GLPL/OF/7.8/03

Test Report No.	GA/22/12/332		Report Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISE PLOT K-1, PART-1, K-2, TALUKA – PANVEL, DIS			TION LTD.
P.O. No. / Date		Page No.		1 of 1
Sampling Done By	GLPL	Sample Received on	2	1/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/202	2 To 27/12/2022

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near Acid Tank Farm Area					
Date of Sampling			19/12/20	022			
Time of Sampling	Duration of Sampling	Ambient Temperature ["C]		Relative Humidity [%			
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.		
12:05	24	24	32	-41	70		

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PMto	µg/m ³	63,71	100.0	IS 5182 (Part XXIII) 2006
PM2.5	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.	15 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 ^{er} Edition, Method 411 2016
Ammonia	µg/m ³	19.50	400.0	ISC Method of Air Sampling & Analysis 3rd Edition, Method 401 2010
Benzene	µg/m ³	< 1.0	5.0	15 5182 (Part XI) 2006
Benzo Pyrene	ng/m ⁵	< 0.1	1.0	15 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	15 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	15 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO3	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m³	< 1.0	Not Specified	By Morris B. Jacob
HCI	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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Note :

1. The vesults 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 volate only to the conditions prevailing at the time of sampling.

5. Costomer complaint register is available at laboratory.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/333 Test R		Report Date	27/12/2022
Customer Name and Address		RS AND PETROCHEMICA K-3, K-4, K-5 & K-6, MIDC 1 T. – RAIGAD.		TION LTD.
P.O. No. / Date		Page No.		1 of 1
Sampling Done By	GLPL	Sample Received on	21	1/12/2022
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	22/12/202	2 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 [%			
[blrs]	[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
PMio	Fm/gu	62.44	100.0	IS 5162 (Part XXIII) 2006
PM ₂₅	µg/m³	30.19	60.0	USEPA FEM, 40 CFR Part 50, Appendix L, 2014-2016
SO ₂	µg/m ³	32.37	80.0	15 5162 (Part 0) 2001
NOr	µg/m ²	39.41	80.0	IS 5182 (Part VI) 2006
CO	mg/m ²	1.24	2.0 for 8 Hrs.	15 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Pan XXII) 2004
Ozone	µg/m ²	5.74	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3* Edition, Method 411 2010
Ammonia	µg/m ²	16.67	400.0	ISC Method of Air Sampling & Analysia 3º Edition, Method 401 2016
Benzone	µg/m ²	< 1.0	5.0	35 5182 (Part XI) 2000
Benzo Pyrene	ng/m ²	< 0,1	1.0	15 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	10.23	20.0	IS 5152 (Part XXI) 2004
Hydrocarbon	µg/m³	< 1.0	Not Specified	15 5182 (Pan XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	18.5162 (Part XIII) 1991
SO3	μg/m ²	< 6.0	Not Specified	ASTM D-3225
Acid Mist	µg/m ³	< 1.0	Not Specified	By Moiris B. Jacob
HCI	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/23/01/291 Test		eport Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS COP PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA TALUKA – PANVEL, DIST. – RAIGAD.			TION LTD.
P.O. No. / Date		Page No.		1011
Sampling Done By	GLPL	Sample Received on	17	/01/2023
Sampling Plan	GLPL/QF/7.3/06 Analysis Perio		18/01/202	3 To 23/01/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near Methanol Gate 16/01/2023				
Date of Sampling						
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		mbient 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
PM2.5	µg/m ^a	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	15 5182 (Part VI) 2005
0.0	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/m³	9.55	100:0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3th Edition, Method 411 2016
Ammonia	µg/m ³	20.83	400.0	ISC Method of Air Sampling & Analysis 3rd 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 \$182 (Part XII):2004
Arsenic	ng/m³	< 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	(S 5182 (Part XIII) 1991
SO3	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³¹	< 1.0	Not Specified	By Morris B. Jacob
HCI	µg/m ^a	< 1.0	Not Specified	By Morris B. Jacob

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

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/01/292		eport Date	25/01/2023
Customer Name and Address		RS AND PETROCHEMICAL -3, K-4, K-5 & K-6, MIDC TA - RAIGAD.		TION LTD.
P.O. No. / Date		Page No.	1	1 of 1
Sampling Done By	GLPL	Sample Received on	17	//01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/01/202	3 To 23/01/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near IPA Gate				
Date of Sampling	Sampling		16/01/2023			
Time of Sampling	Duration of Sampling	Ambient Temperature [ºC]		on of Sampling Ambient Temperature [°C] Relative Hum		midity [%]
[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
PM10	µg/m ³	65.16	100.0	IS 5162 (Part XXIII) 2008
PM2.5	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) 2005
CO	mg/m ³ⁱ	1.17	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.12	1.0	18 5182 (Part XXII) 2004
Ozone	µg/m ³	12.21	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis D ^{el} Edition, Method 411 2016
Ammonia	µg/m³	17.71	400.0	ISC Method of Ar Samoling & Analysis 3 ^{el} Edition, Method 401 2015
Benzene	µg/m ³	< 1.0	5.0	IS 5162 (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 (Pan XXII) 2004
Nickel	ng/m ^a	13.52	20.0	IS 5162 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5162 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO3	µg/m ³	< 6:0	Not Specified	ASTIM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCI	μg/πt ^a	< 1.0	Not Specified	By Marris B. Jacob

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N.A.A.Q.S. - National Ambient Air Quality Standards

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/01/293		eport 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	1 of 1
Sampling Done By	GLPL	Sample Received on	17	7/01/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/01/202	3 To 23/01/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near WNA III Plant Area					
Date of Sampling	iampling		16/01/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature ["C]		Relative Hu	midity [%]		
[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
PMie	µg/m ³	60.43	100.0	15 5182 (Part XXIII) 2005
PM2.5	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	18.5182 (Part VI) 2008
CO	mg/m ³	1.14	2.0 for 8 Hrs.	4\$ 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 2* Edition, Method 411 2916
Ammonia	µg/m ³	15,96	400.0	ISC Method of Air Sampling & Analysis 3th Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 6182 (Part XI) 2006
Benzo Pyrene	rig/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
SO3	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Monis B. Jacob
HCI	µg/m ^a	< 1.0	Not Specified	By Morris B, Jacob

End

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

For GADARK LAB PVT. LTD.

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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/23/01/294 Test F		eport 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	1 of 1
Sampling Done By	GLPL	Sample Received on	17	//01/2023
Sampling Plan	GLPL/QF/7.3/06 Analysis Pr		18/01/202	3 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 HL	midity [%]		
[Hrs]	[Hrs]	Min	Max.	Min.	Max.		
14:00	24	17	31	45	-80		

ANALYSIS REPORT :-

Parameters	Unit	Results	"N.A.A.Q.S.	Sampling & Analysis Methods
PM10	µg/m ³	60.72	100.0	15 5182 (Part XXIII) 2008
PM2.5	µg/m ³	30.64	80.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	26.48	80.0	15 5182 (Port II) 2001
NO ₂	µg/m ³	36.11	80.0	15 5182 (Part VI) 2006
CO	mg/m ²	1.09	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.11	1.0	13 5182 (Part XXII) 2004
Ozone	µg/m ³	11.15	100.0 for 8 Hrs.	15C Melhod of Air Sampling & Analysis 3" Edition, Method 411 2016
Ammonia	µg/m ³	17.13	400.0	ISC Method of Air Sampling & Analysis 214 Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	15 5182 (Part XI) 2006
Benzo Pyrene	ng/m ¹	< 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
SOn	µg/m ³	< 6,0	Not Specified	AS1M D 3225
Acid Mist	µg/m ³	< 1.0	Not Specified	By Monts B. Jacob
HCI	µg/m³	< 1.0	Not Specified	By Morria B. Jacob

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"N.A.A.Q.S. - National Ambient Air Quality Standards

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/02/102 Tes		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 or	1 1(0/02/2023	
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/202	3 To 16/02/2023	

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near Methanol Gate					
Date of Sampling			09/02/20	023			
Time of Sampling	Duration of Sampling	Ambient Temperature ["C]		Relative Humidity [%]			
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.		
10:25	24	26	33	40	78		

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Mothods
PM10	µg/m ³	66.17	100.0	IS 5182 (Part XXIII) 2006
PM25	µg/m ³	34.29	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO2	µg/m ³	27.42	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ²	36.27	80.0	IS 5182 (Part VI) 2008
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/m³	9.55	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3rd Edition, Method 411 2014
Ammonia	µg/m ³	17.50	400.0	ISC Method of Air Sampling & Analysis 3" 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
Ansenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	13.89	20.0	15 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
SO3	µg/m ³	< 6.0	Not Specified	ASTM D.3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Moms B. Jacob
HCI	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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

1. The require relate only to the samples leaded.

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 Test Results relate only in the conditions prevailing at the time of sampling.

5. Castomer compliaint neglater is available at laboratory

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TEST REPORT

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

Test Report No.	GA/23/02/103		Report Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTILISE PLOT K-1, PART-1, K-2, K TALUKA – PANVEL, DIST	-3, K-4, K-5 & K-6, MIDC		TON LTD.
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	11/02/202	3 To 16/02/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near IPA Gate					
Date of Sampling			09/02/20)23			
Time of Sampling	Duration of Sampling	Ambient Temperature [*C]		Relative Humidity (%			
[Hirs]	[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
PMio	µg/m³	67.25	100.0	IS 5182 (Part XXIII) 2005
PM2.6	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	HS 5182 (Pairt II) 2003
NO ₂	µg/m ³	40.15	80.0	(S 5182 (Part VI) 2006
CO	mg/m ⁰	1.23	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0,13	1.0	15 5182 (Part XXII) 2004
Ozone	µg/m ³	10,09	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3rt Edition, Method 411 2016
Ammonia	µg/m ³	21.71	400.0	ISC Method of Air Sampling & Analysis 3 st Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	18 5162 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	18 61/02 (Part XII):2004
Ansenic	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/m³	< 1.0	Not Specified	15 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	15 5182 (Part XIII) 1991
SO3	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCI	µg/m ³	< 1.0	Not Specified	By Monis 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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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Test Report shall not be rependuced encost in Adl, willour writtee approval of the laboratory 3 Samples will be preserved for a period 15 days from the deliving of Fest Report.

Test Results retain only to the conditions provailing at the time of sampling.
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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/02/104		eport 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	also .	Page No.		1 of 1
Sampling Done By	GLPL	Sample Received on	10	/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/202	3 To 16/02/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near WNA III Plant Area					
Date of Sampling	ling		09/02/2023				
Time of Sampling	f Sampling Duration of Sampling		Ambient Temperature [*C]		umidity [%]		
[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 to:	µg/m ³	63.66	100.0	8005 (IIIXX nef) \$818 81
PM25	µg/m ³	32.57	60.0	USEPA FEM, 40 CFR Part 60, Appendia-L, 2014-2016
SO2	µg/m ³	31.55	0.08	15-5182 (Part 0) 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	15 5162 (Part XXII) 2004
Ozone	µg/m ³	11.68	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3" Edition, Method 411 2018
Ammonia	µg/m ³	19.38	400.0	ISC Method of Air Sampling & Analysis 3th 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	(S 5182 (Part XXII) 2004
Nickel	ng/m ³	10.09	20.0	15 5162 (Part XXII) 2004
Hydrocarbon	µg/m³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS \$182 (Part XII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris 8. Jacob
HCI	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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Note :

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3. Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Text Results relate only to the conditions prevailing at the time of sampling.

5. Customer complaint register is available at laboratory.

Recognised by Ministry of Environment, Forest and CC, Government of India, vide Gazette Notification No. 3221, dated 24th August 2021, valid upto 15th October 2023. ISO 9001 : 2015 Certified & ISO 45001 : 2018 Certified.

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TEST REPORT

Doc.No : GLPL/OF/7.8/03

Test Report No.	GA/23/02/105		Report Date	16/02/2023
Customer Name and Address		RS AND PETROCHEMICA K-3, K-4, K-5 & K-6, MIDC T RAIGAD.		TION LTD.
P.O. No. / Date		Page No.		1 of 1
Sampling Done By	GLPL	Sample Received on	10	0/02/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	11/02/202	3 To 16/02/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near Acid Tank Farm Area					
Date of Sampling			09/02/20	023			
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	15 5182 (Part XXIII) 2006
PM _{2.6}	µg/m ³	31.00	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2018
SO2	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/m³	1.14	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 5162 (Part XXII) 2004
Ozone	µg/m ³	11.68	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3rd Edition, Method 411 2018
Ammonia	µg/m ^a	22.00	400.0	55C Method of Air Sampling & Analysis 3" Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	1S 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 ^b	13.14	20.0	IS 5162 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	15 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO3	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCI	µg/m ³	< 1.0	Not Specified	By Month 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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

1. The results relate only in the samples tested.

2. Test Report shall not be reproduced except in full, without written approval of the lateratory.

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. Contomer complaint register is available at laboratory.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/DF/0335	leport Date	15/03/2023	
Customer Name and Address		RS AND PETROCHEMICA K-3, K-4, K-5 & K-6, MIDC T T. – RAIGAD.		TION LTD.
P.O. No. / Date		Page No.		1 of 1
Sampling Done By	GLPL	Sample Received on	05	2/03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/202	3 To 15/03/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near Methanol Gate					
Date of Sampling	ing		06/03/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [ºC]		Relative Humidity [%			
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.		
11:10	24	26	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
PM2.5	µg/m ³	31.83	60.0	USEPA FEM, 40 CFR Part 50, Appendia-L, 2014-2016
SO2	µg/m ³	30.19	80.0	15 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.	15 5182 (Part X) 1999
Lead	µg/m ^a	0.14	1.0	15:5102 (Part XXII) 2004
Ozone	µg/m ^a	12.21	100.0 for 8 Hrs.	ISO Method of Air Sampling & Analysis 3" Edition, Method 411 2018
Ammonia	µg/m ^a	20.75	400.0	ISC Method of Air Sampling & Analysis 3* Edition, Method 401 2016
Benzene	pg/m ^o	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	15 5162 (Part 301):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	15 5182 (Part XIII) 1991
SOa	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Montis B. Jacob
HCI	² m/gu	< 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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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3. Samples will be preserved for a period 16 days from the delivery of Text 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/DF/0336/23 Test		Report Date	15/03/2023
Customer Name and Address	M/S. DEEPAK FERTILISE PLOT K-1, PART-1, K-2, K TALUKA – PANVEL, DIST	-3, K-4, K-5 & K-6, MIDC 1		TION LTD.
P.O. No. / Date	and the	Page No.		1 of 1
Sampling Done By	GLPL	Sample Received on	09	03/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/202	3 To 15/03/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near IPA Gate					
Date of Sampling			06/03/20	023			
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
PM10	µg/m ³	65.98	100.0	15 5162 (Part XXIII) 2006
PM ₂₅	µg/m ³	36.21	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ^a	32.55	80.0	45 5182 (Part II) 2001
NO ₂	µg/m ^a	43.89	80.0	15 5182 (Part VI) 2006
CO	mg/m ³	1.20	2.0 for 8 Hrs.	15 5162 (Part X) 1999
Lead	µg/m ³	0.14	1.0	15 5182 (Part XXII) 2004
Ozone	µg/m ³	12.74	100.0 for 8 Hrs.	ISC Method of Air Swripling & Analysis 3" Edition, Method 411 2010
Ammonia	µg/m ³	25.96	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401-2016
Benzene	µg/m ²	< 1.0	5.0	18 5182 (Part XI) 2006
Benzo Pyrene	ng/m ^a	< 0.1	1.0	(IS 8182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5162 (Part XXII) 2004
Nickel	ng/m ³	11.42	20.0	1S 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	15 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS \$182 (Port XIII) 1991
SO3	pg/m ³	< 6.0	Not Specified	ASTM D 3225
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCI	µg/m ^a	< 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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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Test Results rotate any to the conditions prevailing at the time of sampling.
 Customer complaint register is available at laboratory.

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TEST REPORT

Doc No : GLPL/OF/7.8/03

Test Report No.	GA/DF/0337/23		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	10/03/202	3 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	Duration of Sampling	Ambient Tem	Ambient Temperature [*C]		Relative Humidity [%	
[Hrs]	[Hrs]	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
PM2.5	µg/m ³	34.29	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2018
SO ₂	µg/m ³	28.65	80.0	48 5182 (Part II) 2001
NO ₂	µg/m ³	37.51	80,0	IS 5182 (Part VI) 2006
CO	mg/m ⁰	1.21	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.16	1.0	15 5182 (Part XXII) 2004
Ozone	µg/m ³	10.09	100.0 for 8 Hrs.	ISC Method of Air Sempling & Analysis 3 st Edition, Method 411 2016
Ammonia	h8/wg	18.79	400.0	ISC Method of Air Sampling & Analysis 3rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	15 5182 (Part XI) 2005
Benzo Pyrene	ng/m ³	< 0.1	1.0	(\$ 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
SO3	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCI	µg/m ³	< 1.0	Not Specified	Ely 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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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2. Test Report shall not be reproduced except in full, without written approval of the laboratory.

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4. Test Results relate only to the conditions prevaiiing at the time of samping.

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/DF/0338/23		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	05	//03/2023		
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/202	3 To 15/03/2023		

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near Acid Tank Farm Area				
Date of Sampling				06/03/2023		
Time of Sampling	Duration of Sampling	Ambient Temperature [*C]		Relative Humidity [%		
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.	
14:10	24	26	36	35	65	

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM10	µg/m ³	65.62	100.0	IS 5162 (Part XXIII) 2006
PM2.5	µg/m ^a	33.98	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016.
SO ₂	µg/m ³	27.74	80.0	15 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 ^{ti}	0.11	1.0	15 5182 (Part XXII) 2004
Ozone	µg/m ³	13.27	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 st Edition, Method 411 2016
Ammonia	µg/m ³	20.83	400.0	ISC Method of Air Sampling & Analysis 3rd Edition, Method 401 2016
Benzene	µg/m ^a	< 1.0	5.0	85 5182 (Part XI) 2006
Benzo Pyrene	ng/m ⁰	< 0.1	1.0	IS 5162 (Port XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ^a	12.28	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	15 \$182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	15 5182 (Part XIR) 1991
SO3	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCI	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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

This vasialis relate only to the surregion tested.
 Tast 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. Castomer complaint register is available of lationatory.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/DF/0339/23 Test		leport 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	1/03/2023			
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	10/03/202	3 To 15/03/2023			

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location		Near Main Gate (K-6)				
ate of Sampling		08/03/2023				
Time of Sampling	mpling Duration of Sampling Ambient Temperatu		perature [°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
PM10	µg/m ³	67.21	100.0	IS 5102 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.69	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO2	µg/m ³	29.83	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	41.23	80.0	IS 5192 (Part VI) 2006
CO	mg/m ³	1.21	2.0 for 8 Hrs.	15 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 51/02 (Part XXII) 2004
Ozone	µg/m ³	11.49	100.0 for 8 Hrs.	ISC Method of Air Eampling & Analysis 3" Esition, Method 411 2016
Ammonia	µg/m ³	21.71	400.0	ISC Method of Air Sampling & Analysis 3 th Edition, Method 401 2018
Benzene	µg/m ³	< 1.0	5.0	15 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	15 5182 (Furt XIV) 2004
Arsenio	ng/m ³	< 0.4	6.0	15 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 \$182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 6102 (Part XIII) 1991
SOa	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCI	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.

CEDILICE

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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 Container complaint register is available at laboratory.

Recognised by Ministry of Environment, Forest and CC, Government of India, vide Gazette Notification No. 3221,

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dated 24th August 2021, valid upto 15th October 2023. ISO 9001 : 2015 Certified & ISO 45001 : 2018 Certified.

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, Taloja, 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.

The Ministry of Environment and Forests has examined your application. It is 2.0 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 Taloja, Maharashtra. 33,000 MTPA propane will be generated as by product. The project will be located in the industrial area of Taloja 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 Taloja. 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 reprocessors. 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.

The Ministry of Environment and Forests hereby accords environmental clearance 3.0. 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 (SO₂, NO_x, NH₃ & HCI) 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.
- 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 m³/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 m³/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 HDPElined secured landfill at the site. Spent catalyst and used oil shall be sold to authorized reprocessors.
- vili) 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 <u>http://envfor.nic.in</u>. 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.
- 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.

Muto 24/2/06

(Dr. P.B. RASTOGI) Additional Director



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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/3	34 Test Rej	port Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K TALUKA – PANVEL, I	ORATION LTD.		
P.O. No. / Date	-	Page No.	ļ.	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 :-

GT 05 Area
19/12/2022
13:45
2
24
32
41
78

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ^a	860.0	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m³	0.027	5.0	IS 5182 (Part II) 2012
NOx	mg/m³	0.037	6.0	IS 5182 (Part VI) 2005
со	mg/m ^a	0.83	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/12/3	335 Test Re	port Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K TALUKA – PANVEL, I		DRATION LTD.	
P.O. No. / Date	344)	Page No.		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
SOz	mg/m ³	0.030	5.0	IS 5182 (Part II) 2012
NOx	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.

Generales

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 Re	eport Date	27/12/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION 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 ^a	0.074	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ^a	0.024	5.0	IS 5182 (Part II) 2012
NOx	mg/m³	0.033	6.0	IS 5182 (Part VI) 2006
со	mg/m ²	0.68	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/OF/7.8/03

Test Report No.	GA/23/02/1	06 Test Rej	port Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K TALUKA – PANVEL, I		ORATION LTD.	
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 ^a	0.027	5.0	IS 5182 (Part II) 2012
NOx	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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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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TEST REPORT

Doc.No: GLPL/OF/7.8/03

Test Report No.	GA/23/02/107		eport Date	16/02/2023
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K TALUKA – PANVEL, I		DRATION LTD.	
P.O. No. / Date		Page No.	1	of 1
Sampling Done By	GLPL	Sample Received on	10/0	2/2023
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 [ºC] [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 ^a	0.068	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ^a	0.033	5.0	IS 5182 (Part II) 2012
NOx	mg/m ³	0.044	6.0	IS 5182 (Part VI) 2006
co	mg/m³	0.68	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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TEST REPORT

Dot:No : GLPL/QF/7.8/03

Test Report No.	GA/23/02/	108 Test Re	eport Date	16/02/2023	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION 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	- Ann	Page No.	1	of 1	
Sampling Done By	GLPL	Sample Received on	eived 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 [ºC] [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
NOx	mg/m ^a	0.041	6.0	IS 5182 (Part VI) 2006
CO	mg/m ²	0.78	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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 lattoratory.

3. Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Test Results relate only to the conditions provailing 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/23/01/2	95 Test Rej	port Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K- TALUKA – PANVEL, I	DRATION LTD.		
P.O. No. / Date	Page No.			1 of 1
Sampling Done By	GLPL	Sample Received on	n 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
NOx	mg/m ⁹	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.

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AUTHORISED SIGNATORY [KAILAS V. CHITALKAR]

Note :

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5. Customer complaint register is available at laboratory.

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TEST REPORT

Dog.No : GLPL/QF/7.8/03

Test Report No.	GA/23/01/2	296 Test Re	eport Date	25/01/2023	
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION 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.		l 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 [ºC] [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
NOx	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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AUTHORISED SIGNATORY [KAILAS V. CHITALKAR]

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- 5. Customer complaint register is available at laboralory.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/01/2	297 Test Re	port Date	25/01/2023
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K TALUKA – PANVEL, I		DRATION LTD.	
P.O. No. / Date	-	Page No.		of 1
Sampling Done By	GLPL	Sample Received on	n 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
NOx	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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Note :

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3. Samples will be preserved for a period 15 mays from the delivery of Test Report.

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5. Customer complaint register is available at taboratory

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/11/2	12 Test Rej	port Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMIC PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALUKA – PANVEL, DIST. – RAIGAD.			ORATION LTD.
P.O. No. / Date	-	- Page No.		l 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 :-

GT 05 Area
14/11/2022
13:15
2
22
31
43
82

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m³	0.083	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m³	0.030	5.0	IS 5182 (Part II) 2012
NOx	mg/m ³	0.038	6.0	IS 5182 (Part VI) 2006
CO	mg/m ^a	0.90	55.0	IS 5182 (Part X) 1999

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For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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TEST REPORT

Eoc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/11/213 Tes		eport Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMIC PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDO TALUKA – PANVEL, DIST. – RAIGAD.			DRATION LTD.
P.O. No. / Date	- +++	Page No.		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
NOx	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

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For GADARK LAB PVT, LTD,

Seapula

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/11/214 To		eport Date	21/11/2022
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K TALUKA – PANVEL, I		DRATION LTD.	
P.O. No. / Date	Page No.		1	of 1
Sampling Done By	GLPL	Sample Received on	15/	1/2022
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/m²	0.026	5.0	IS 5182 (Part II) 2012
NOx	mg/m²	0.035	6.0	IS 5182 (Part VI) 2006
co	mg/m³	0.73	55.0	IS 5182 (Part X) 1999

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For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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TEST REPORT

Doc.No: GLPL/QF/7.8/03

Test Report No.	GA/22/10/202 Test Rep		port Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION L PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST RAIGAD.			DRATION LTD.
P.O. No. / Date		Page No.	1	of 1
Sampling Done By	GLPL	Sample Received on	13/1	0/2022
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/m³	0.072	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.034	5.0	IS 5182 (Part II) 2012
NOx	mg/m ³	0.040	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.

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TEST REPORT

Doc.No : GLPL/OF/7.8/03

Test Report No.	GA/22/10/2	01 Test Rej	port Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K- TALUKA - PANVEL, I		DRATION LTD.	
P.O. No. / Date		Page No.		of 1
Sampling Done By	GLPL	Sample Received on	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 ^o	0.032	5.0	IS 5182 (Part II) 2012
NOs	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

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For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/OF/7.8/03

Test Report No.	GA/22/10/2	203 Test Re	port Date	19/10/2022
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K TALUKA – PANVEL, I		DRATION LTD.	
P.O. No. / Date	Page No.		1	of 1
Sampling Done By	GLPL	Sample Received on	13/1	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]	84

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.083	10.0	(S 5182 (Part IV) 1999
SO ₂	mg/m ³	0.027	5.0	IS 5182 (Part II) 2012
NOx	mg/m³	0.035	6.0	IS 5182 (Part VI) 2005
CO	mg/m ³	0.73	55.0	IS 5182 (Part X) 1999

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For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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5. Cleatomer complaint register is available at laboratory.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/22/09/3	25 Test Rep	oort Date	27/09/2022
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K- TALUKA – PANVEL, I		DRATION LTD.	
P.O. No. / Date	Page No.		1	of 1
Sampling Done By	GLPL	Sample Received on	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 [PC] [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,	mg/m³	0.033	6.0	IS 5182 (Part VI) 2005
co	mg/m ³	0.84	55.0	1S 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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TEST REPORT

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

Test Report No.	GA/22/09/326 Test I		port Date	27/09/2022
Customer Name and Address	M/S. DEEPAK FERTIL PLOT K-1, PART-1, K TALUKA – PANVEL, K		DRATION LTD.	
P.O. No. / Date	Page No.		1	of 1
Sampling Done By	GLPL Sample Received on		21/0	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 ²	0.066	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.031	5.0	IS 5182 (Part II) 2012
NOx	mg/m ³	0.035	6.0	IS 5182 (Part VI) 2006
co	mg/m ^a	0.75	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

Seconda

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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 defivery of Test Report.

4. Test Results relate only to the conditions prevaiiing at the time of sampling

5. Customer complaint register is available at laboratory.

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OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhrali (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/22/09/	eport Date	27/09/2022	
Customer Name and Address		JSERS AND PETROCHEM -2, K-3, K-4, K-5 & K-6, MI DIST. – RAIGAD.		DRATION LTD.
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 2		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 ^{tt}	0.029	5.0	IS 5162 (Part II) 2012
NOx	mg/m²	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.

Seconda

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note:

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2. Test Report shall not be reproduced except in fail, 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 reate only to the conditions prevaiing at the time of sampling.

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ANNEXURE: Environmental Monitoring

1. Effluent Monitoring Details

	Environment Monitoring FY 2022-23														
I. Effluent (By MOEF&CC approved Lab) :															
				22-						22-	Dec-		Feb-	23-	
Parameters/Months	Limit	UOM	Apr-22	May	Jun-22	22-Jul	Aug-22	22-Sep	Oct-22	Nov	22	Jan-23	23	Mar	Average
	6.5 To		7.82	7.9	7.50	7.5	8.15	7.43	8.35	8.03	7.31	7.22	7.54	7.74	7.71
рН	8.5				7.56										
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															
Р	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	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	- 50	mg/m	17.20	10.40	10.0	14.50	10.2	J.Z	50.04	23.24	22.4	20.04	27.04	52.1	21.74
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		ECHNOLOGIES LIMITEI (PART-1), K-1 (PART-2) . 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 14/10/2022To 19/	
Sample Description	ETP Treated Water S	Sample, 1 lit in plastic bott	le

ANALYSIS REPORTS:

Units	Test Result	Specification Range as per MPCB Limits	Methods
	8.35	6.5 To 8.5	APHA 4500 H⁺
mg/ltr	25	250	APHA 5220 B
mg/ltr	8.0	100	IS 3025 (Part 44) : 1993
mg/ltr	10	100	APHA 2540 D
mg/ltr	1328	2100	APHA 2540 C
mg/ltr	< 0.1	10	APHA 5520 B
Mg/ltr	1.18	5	APHA 4500 P – D
mg/ltr	38.64	50	APHA 4500 NH ₃ A
mg/ltr	0.88	4	APHA 4500 NH ₃ C
mg/ltr	6.16	20	APHA 4500 NO3 B
mg/ltr	< 0.001	10	APHA 4500 F
mg/ltr	44.8	75	APHA 4500 Norg B
	mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr Mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr	Result 8.35 mg/ltr 25 mg/ltr 8.0 mg/ltr 10 mg/ltr 1328 mg/ltr 1328 mg/ltr 1328 mg/ltr 1328 mg/ltr 1.18 mg/ltr 38.64 mg/ltr 0.88 mg/ltr 6.16 mg/ltr <0.001	Result Range as per MPCB Limits 8.35 6.5 To 8.5 mg/ltr 25 250 mg/ltr 8.0 100 mg/ltr 10 100 mg/ltr 1328 2100 mg/ltr 1.18 5 mg/ltr 38.64 50 mg/ltr 0.88 4 mg/ltr 6.16 20 mg/ltr <0.001

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/22/2932	Report Date	19/10/2022
Customer Name and Address		ECHNOLOGIES LIMITEI (PART-1), K-1 (PART-2) . 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	
Sample Description	ETP Treated Water S	Sample, 1 lit in plastic bott	e

ANALYSIS REPORTS:

mg/ltr			
	Nil	-	APHA 4500 CI B
mg/ltr	BDL	-	APHA 3111 B & C
mg/ltr	BDL	-	APHA 3500 Cr B
mg/ltr	BDL	-	APHA 3500 V
mg/ltr	BDL	-	APHA 3112 B
mg/ltr	BDL	-	APHA 3112 B
mg/ltr	BDL		APHA 3112 B
mg/ltr	BDL	-	APHA 3112 B
mg/ltr	BDL		APHA 3112 B
mg/ltr	BDL	÷	APHA 3112 B
mg/ltr	BDL	-	APHA 3112 B
mg/ltr	BDL	-	APHA 5530 D
mg/ltr	BDL	÷	APHA 4500 E
mg/ltr	BDL	÷	APHA 4500 P
° C	27	÷	APHA 2550
	mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr mg/ltr	mg/ltrBDL	mg/ltrBDL-0 C27-

End_

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

GW/O/22/3611	Report Date	26/12/2022
PLOT NOS. K-1, K-1 (F	PART-1), K-1 (PART-2), M	/IIDC TALOJA,
2100013414 / 03-09-20	22	
GW/O/22/3611	Page No.	1 of 2
GLPL/QF/7.3/06	Sampling Method	APHA 1060
GLPL on 21/12/2022	Sample Received on	22/12/2022
GLPL	Analysis Period 22/12/2022 To 26	
ETP Treated Water Sar	nple, 1 lit in plastic bottle	
	M/S SMARTCHEM TEO PLOT NOS. K-1, K-1 (F TAL. PANVEL, DIST. F 2100013414 / 03-09-20 GW/O/22/3611 GLPL/QF/7.3/06 GLPL on 21/12/2022 GLPL	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), M TAL. PANVEL, DIST. RAIGAD.2100013414 / 03-09-2022GW/O/22/3611Page No.GLPL/QF/7.3/06Sampling MethodGLPL on 21/12/2022

ng/ltr ng/ltr ng/ltr ng/ltr	7.31 54 19 16	6.5 To 8.5 250 100	APHA 4500 H ⁺ APHA 5220 B IS 3025 (Part 44) : 1993
ng/ltr ng/ltr ng/ltr	19 16	100	
ng/ltr ng/ltr	16		IS 3025 (Part 11) · 1003
ng/ltr			10 JUZJ (1 all 44). 1995
		100	APHA 2540 D
ng/ltr	1870	2100	APHA 2540 C
ng/ltr	<0.1	10	APHA 5520 B
/lg/ltr	0.18	5	APHA 4500 P – D
ng/ltr	22.40	50	APHA 4500 NH ₃ A
ng/ltr	0.24	4	APHA 4500 NH ₃ C
ng/ltr	16.80	20	APHA 4500 NO3 B
ng/ltr	BDL	10	APHA 4500 F-
ng/ltr	39.20	75	APHA 4500 Norg B
ng/ltr	BDL	4	APHA 4500 E
ng/ltr	BDL		APHA 4500 CI B
ng/ltr	BDL		APHA 3111 B & C
ng/ltr	BDL	-	APHA 3500 Cr B
ng/ltr	BDL	-	APHA 3500 V
ng/ltr	BDL	-	APHA 3112 B
ng/ltr	BDL		APHA 4500 E
	ng/ltr ng/ltr ng/ltr ng/ltr ng/ltr ng/ltr ng/ltr	ng/ltr BDL ng/ltr BDL ng/ltr BDL ng/ltr BDL ng/ltr BDL ng/ltr BDL	ng/ltr BDL - ng/ltr BDL -

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE] Note:

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 Customer complaint register is available at laboratory.

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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		CHNOLOGIES LIMITED, PART-1), K-1 (PART-2), M RAIGAD.	MIDC TALOJA,	
Letter Ref/Date	2100013414 / 03-09-20	22		
Lab Reference No.	GW/O/22/3611	2/3611 Page No. 1 of 2		
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060	
Sampling Done By	GLPL on 21/12/2022	2 Sample Received on 22/12/2022		
Sample Submitted by	GLPL	Analysis Period 22/12/2022 To 26/12		
Sample Description	ETP Treated Water Sar	mple, 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	12	APHA 3112 B
Zinc	mg/ltr	BDL	C=1	APHA 3112 B
Phenol	mg/ltr	BDL	-	IS 3025 Part 43
Phosphate	mg/ltr	BDL	1	APHA 4500 P - D

End_

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE] Note:

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/0/23/0	194	Report Date		23/01/2023	
Customer Name and Address	PLOT NOS	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	210001341	4 / 03-09-2	022			
Lab Reference No.	GW/0/23/0	194	Page No	D.	1 of 2	
Sampling Plan	GLPL/QF/7	.3/06	Samplin	g Method	APHA 1060	
Sampling Done By	GLPL on 1	8/01/2023	Sample	Received on	19/01/2023	
Sample Submitted by	GLPL		Analysis	s Period	19/01/2023 To 23/01/2023	
Sample Description	ETP Treate	d Water Sa		n plastic bottle		
NALYSIS REPORTS:						
Parameters		Units	Test Result	Specification Range as per MPCB Limits	Methods	
pН			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	s P	Mg/ltr	0.20	5	APHA 4500 P – D	
Ammonical Nitrogen as		mg/ltr	28.84	50	APHA 4500 NH ₃ A	
Free Ammonical Nitroge	en as N	mg/ltr	0.26	4	APHA 4500 NH ₃ C	
Nitrate Nitrogen as N		mg/ltr	7.28	20	APHA 4500 NO3 B	
Fluoride as F		mg/ltr	BDL	10	APHA 4500 F-	
Total Kjeldhal Nitrogen	(TKN) as N	mg/ltr	36.12	75	APHA 4500 Norg B	
Cyanide as CN		mg/ltr	BDL	-	APHA 4500 E	
Total Residual Chlorine	as Cl ₂	mg/ltr	BDL	-	APHA 4500 CI B	
Total Chromium as Cr		mg/ltr	BDL	the set of a	APHA 3111 B & C	
Hexavalent Chromium a	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	

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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	TEST	FREPORT	Doc. No: GLPL/QF/7.8/0
Test Report No.	GW/O/23/0194	Report Date	23/01/2023
Customer Name and Address		CHNOLOGIES LIMITED, PART-1), K-1 (PART-2), M RAIGAD.	MIDC TALOJA,
Letter Ref/Date	2100013414 / 03-09-20	22	
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 Sar	mple, 1 lit in plastic bottle	
NAL YSIS REPORTS			

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
Temperature	0°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	1	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.

NB

AUTHORISED SIGNATORY [SANTOSH V. ZULPE] Note:

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GADARK LAB PVT. LI

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/0/23/0	194	Report Date		23/01/2023	
Customer Name and Address	PLOT NOS	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	210001341	4 / 03-09-2	022			
Lab Reference No.	GW/0/23/0	194	Page No	D.	1 of 2	
Sampling Plan	GLPL/QF/7	.3/06	Samplin	g Method	APHA 1060	
Sampling Done By	GLPL on 1	8/01/2023	Sample	Received on	19/01/2023	
Sample Submitted by	GLPL		Analysis	s Period	19/01/2023 To 23/01/2023	
Sample Description	ETP Treate	d Water Sa		n plastic bottle		
NALYSIS REPORTS:						
Parameters		Units	Test Result	Specification Range as per MPCB Limits	Methods	
pН			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	s P	Mg/ltr	0.20	5	APHA 4500 P – D	
Ammonical Nitrogen as		mg/ltr	28.84	50	APHA 4500 NH ₃ A	
Free Ammonical Nitroge	en as N	mg/ltr	0.26	4	APHA 4500 NH ₃ C	
Nitrate Nitrogen as N		mg/ltr	7.28	20	APHA 4500 NO3 B	
Fluoride as F		mg/ltr	BDL	10	APHA 4500 F-	
Total Kjeldhal Nitrogen	(TKN) as N	mg/ltr	36.12	75	APHA 4500 Norg B	
Cyanide as CN		mg/ltr	BDL	-	APHA 4500 E	
Total Residual Chlorine	as Cl ₂	mg/ltr	BDL	-	APHA 4500 CI B	
Total Chromium as Cr		mg/ltr	BDL	the set of a	APHA 3111 B & C	
Hexavalent Chromium a	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	

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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	TEST	FREPORT	Doc. No: GLPL/QF/7.8/0
Test Report No.	GW/O/23/0194	Report Date	23/01/2023
Customer Name and Address		CHNOLOGIES LIMITED, PART-1), K-1 (PART-2), M RAIGAD.	MIDC TALOJA,
Letter Ref/Date	2100013414 / 03-09-20	22	
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 Sar	mple, 1 lit in plastic bottle	
NAL YSIS REPORTS			

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
Temperature	0°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	1	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.

NB

AUTHORISED SIGNATORY [SANTOSH V. ZULPE] Note:

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/0/22/3	273	Repo	ort Date	22/11/2022	
Customer Name and Address	M/S SMAR PLOT NOS TAL. PANV	. K-1, K-1	IDC TALOJA,			
Letter Ref/Date	210001341	2100013414 / 03-09-2022				
Lab Reference No.	GW/0/22/3	273	Page No).	1 of 2	
Sampling Plan	GLPL/QF/7	.3/06	Samplin	g Method	APHA 1060	
Sampling Done By	GLPL on 16	6/11/2022		Received on	17/11/2022	
Sample Submitted by	GLPL		Analysis		17/11/2022 To 22/11/2022	
Sample Description	ETP Treate	d Water Sa		n plastic bottle		
NALYSIS REPORTS:			in pro, i nun	. Plastic bottlo		
Parameters		Units	Test Result	Specification Range as per MPCB Limits	Methods	
pН			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	6	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 a	s P	Mg/ltr	0.16	5	APHA 4500 P – D	
Ammonical Nitrogen as	N	mg/ltr	23.24	50	APHA 4500 NH3 A	
Free Ammonical Nitrog	en as N	mg/ltr	0.20	4	APHA 4500 NH ₃ C	
Nitrate Nitrogen as N		mg/ltr	8.12	20	APHA 4500 NO3 B	
Fluoride as F		mg/ltr	BDL	10	APHA 4500 F-	
Total Kjeldhal Nitrogen	(TKN) as N	mg/ltr	31.36	75	APHA 4500 Norg B	
Cyanide as CN		mg/ltr	BDL	-	APHA 4500 E	
Total Residual Chlorine	as Cl ₂	mg/ltr	BDL		APHA 4500 CI 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	

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE] Note:

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/0/22/3273	Report Date	22/11/2022
Customer Name and Address		CHNOLOGIES LIMITED, PART-1), K-1 (PART-2), RAIGAD.	
Letter Ref/Date	2100013414 / 03-09-20)22	
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 Sa	mple, 1 lit in plastic bottle	

ANALYSIS REPORTS:

Parameters	Units	Units Test Result		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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE] Note:

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/0/23/0	O/23/0452 Report Date		17/02/2023			
Customer Name and Address	M/S SMAR PLOT NOS TAL. PANV	. K-1, K-1	IDC TALOJA,				
Letter Ref/Date	210001341	2100013414 / 03-09-2022					
Lab Reference No.	GW/0/23/0	452	Page No).	1 of 2		
Sampling Plan	GLPL/QF/7	.3/06	Samplin	g Method	APHA 1060		
Sampling Done By	GLPL on 13	3/02/2023		Received on	14/02/2023		
Sample Submitted by	GLPL		Analysis		14/02/2023 To 17/02/2023		
Sample Description	ETP Treate	d Water Sa		n plastic bottle			
ANALYSIS REPORTS:				- protected working			
Parameters		Units	Test Result	Specification Range as per MPCB Limits	Methods		
рН			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	5	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 a	s P	Mg/ltr	0.18	5	APHA 4500 P – D		
Ammonical Nitrogen as		mg/ltr	27.54	50	APHA 4500 NH ₃ A		
Free Ammonical Nitrog	en as N	mg/ltr	0.24	4	APHA 4500 NH ₃ C		
Nitrate Nitrogen as N		mg/ltr	8.10	20	APHA 4500 NO3 B		
Fluoride as F		mg/ltr	BDL	10	APHA 4500 F-		
Total Kjeldhal Nitrogen	(TKN) as N	mg/ltr	32.14	75	APHA 4500 Norg B		
Cyanide as CN		mg/ltr	BDL		APHA 4500 E		
Total Residual Chlorine	as Cl ₂	mg/ltr	BDL	-	APHA 4500 CI 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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TEST REPORT

Doc. No: GLPL/QF/7.8/01

GW/O/23/0452	Report Date	17/02/2023		
M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.				
2100013414 / 03-09-2022				
GW/O/23/0452	Page No.	2 of 2		
GLPL/QF/7.3/06	Sampling Method	APHA 1060		
GLPL on 13/02/2023	Sample Received on	14/02/2023		
GLPL	Analysis Period	14/02/2023 To 17/02/2023		
ETP Treated Water Sa	mple, 1 lit in plastic bottle			
	PLOT NOS. K-1, K-1 (TAL. PANVEL, DIST. I 2100013414 / 03-09-20 GW/O/23/0452 GLPL/QF/7.3/06 GLPL on 13/02/2023 GLPL	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), I TAL. PANVEL, DIST. RAIGAD.2100013414 / 03-09-2022GW/O/23/0452Page No.GLPL/QF/7.3/06Sampling MethodGLPL on 13/02/2023Sample Received onGLPLAnalysis PeriodETP Treated Water Sample, 1 lit in plastic bottle		

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
Temperature	0 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] Note:

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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 / 03-09-20	022		
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 Sa	mple, 1 lit in plastic bott	le	

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as	Methods
· · · · · · · · · · · · · · · · · · ·			per MPCB Limits	
рН		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 NH3 C
Nitrate Nitrogen as N	mg/ltr	2.18	20	APHA 4500 NO3 B
Fluoride as F	mg/ltr	BDL	10	APHA 4500 F
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	11.42	75	APHA 4500 Norg 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	0C	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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TEST REPORT

::: 2 :::

GADARK LAB PVT. LTD.

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 Cl2	mg/ltr	Nil	-	APHA 4500 CI 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.

& dpe

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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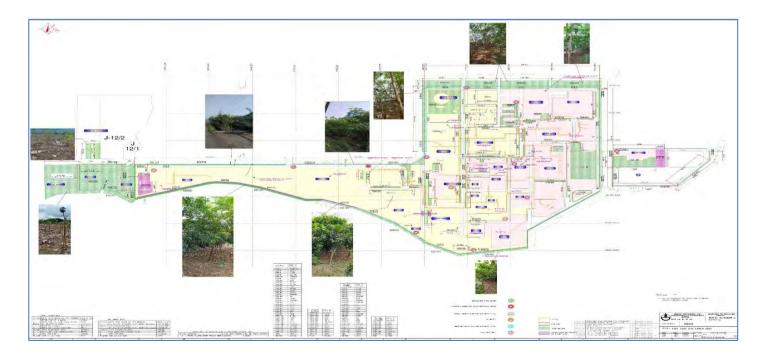
3. Samples will be preserved for a period 15 days from the delivery of Test Report.

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 develoed 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.

Detai	ils 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



PHOTGRAPHS OF GREEN BELT



4.Green belt inside the factory premises



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

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





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 (Plantatio Rs. 0.33 Cr, MaintenanceRs. 1.49 Cr). The project agreement is valid from 27th June,2017 to 26th June,2024. It is located at Dhavdi village.



15



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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		RS AND PETROCHEMICALS CORI -3, K-4, K-5 & K-6, MIDC TALOJA, - RAIGAD.	PORATION LTD.
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

		NOISE LEV	/EL dB (A)
Sr. No.	LOCATION	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
80	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.

Securitu

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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3. Test Results relate only to the conditions prevailing at the time of sampling.

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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 A PLOT K-1, PART-1, K-2, K-3, K TALUKA – PANVEL, DIST. – R		RATION LTD.
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.	Sampling Location	Time of Measurement	Average Noise Level Measurement in dB(A)
No.	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.

Perperter

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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INDUSTRIAL ANALYSTS & CONSULTANTS

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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/7.8/04

Test Report No.	GA/22/11/215	Test Report Date	21/11/2022
Customer Name and Address		RS AND PETROCHEMICALS COR -3, K-4, K-5 & K-6, MIDC TALOJA, - 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.		NOISE LEV	VEL dB (A)
	LOCATION	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
80	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.

Seconder

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note :

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TEST REPORT

Doc No : GLPL/QF/7.8/04

GA/22/12/337	Test Report Date	27/12/2022
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.		
	Page No.	1 of 1
GLPL/QF/7.3/06	Measurement Done By	GLPL
	M/S. DEEPAK FERTILISE PLOT K-1, PART-1, K-2, K TALUKA – PANVEL, DIST	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS COR PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD. ––– Page No.

AMBIENT NOISE LEVEL MEASUREMENT :

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

Sr. L No.		NOISE LEVEL dB (A)	
	LOCATION	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.

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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	

0.		NOISE LEVEL dB (A)	
Sr. No.		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.

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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	

e	LOCATION	NOISE LEY	NOISE LEVEL dB (A)	
Sr. No.		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.

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AUTHORISED SIGNATORY [KAILAS V. CHITALKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/04

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GA/DF/0343/23	Test Report Date	15/03/2023
M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LT PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
	Page No.	1 of 1
GLPL/QF/7.3/06	Measurement Done By	GLPL
	M/S. DEEPAK FERTILISER PLOT K-1, PART-1, K-2, K TALUKA – PANVEL, DIST	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS COR PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD. – Page No.

AMBIENT NOISE LEVEL MEASUREMENT :

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

		NOISE LE	VEL dB (A)
Sr. No,	LOCATION	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.

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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:

- O 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.
- O To undertake vocational skill and soft skill development initiatives enabling sustained and respectable employment opportunities for leading a self-reliant life
- O 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
- O 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
- O 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
- O To provide a much-needed crisis support for unexpected calamities and disasters
- O 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	
ramers 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 opthomatry Students	
•Tailoring Training	
•Soft skill training	
Aarogyam Project	
•Mobile Medicle Unit	
•Eve camp	
Infratructure Development for Health facility/ Health Centres	
•Pathalogy lab	
Gyanam Project	
Infrastructure development for School	
Digitization of School Classrooms	
•Create Facility	
Livelihood Inhancement Through Enterprenurship Development (LE	IED)
•Yellow Ribbon NGO & Artisan Fair	
•Muskan	
 Support for Income Generation Activity 	
Community Development And Social Welfare Project	

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

			Number of Bene	eficiaries C	overed
S.N.	Name of Project	Major Activities	Rural (Taloja/ Dahej/ Srikakulam)	Urban (Pune)	Total
1	DDP	Support for Crossbreed Cow, Artificial Insemination, Pregnancy Diagnosis, Vaccination, Fodder Development, Training	292	O	292
2	WADI	Mango Plantation, Vegetable Cultivation, water resource Devt. & Conveyance, Nursery Development, training,	410	đ	410
.00	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	Q	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	ō	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.
- O Development of eroded wasteland through soil and water conservation.
- O Water resource development and water conveyance
- Cultivation of suitable improved intercrops both for food and for cash incomes wherever possible during the initial stage
- O 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.
- O 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

S. N.	Activity	Unit	Achiev ement	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)	No. of	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 Aspira nts	132	Provided vegetable seed to 132 Wad aspirants. All aspirants completed seed sowing.
В	Development of Model /Trial Plot			Concerning and a second statements
1	Trial Fruit Plot: Pineeapple-850, Rose berry-10, Fig-17; Cashew- 60, Avocado- 10, Apple Graft-35	Nos. Piots	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 tota 6527 no's grafts are survived, 830 solo 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 sapling 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 a Mohadar Village, cultures from this ban will be used for vegetable and fruits plots
С	Water Resource Development, Conveyance & Effective Water Usage other than wadi Aspirants	Nos	26	Support given for WRD equipment as pe need of farmers (HDPE pipe, Electri Motor, Diesel Engine, Petrol Engine)
D	Capacity Building			
1	External Exposure of Wadi & Nursery aspirants	Nos	3	22 nos. of participants joined Exposure a Lachakhadi BAIF Gujrat and Harsul area o Nasik district (M-22).
	External Exposure volunteers	Nos.	2	16 nos. of volunteers joined Exposure visi at Krushithon Exhibition Nasik (M-16).
2	Farmers internal exposure visits towards established wadi/Nursery (progressive farmer)	Nos	10	124 participants joined this study tou within field to learn best was management practices (M-94, F-30).
	Staff Exposure	Nos.	1	learn best management practices of agriculture and High-Density Planting of



Page



Dairy Development Project (Taloja-MHS)

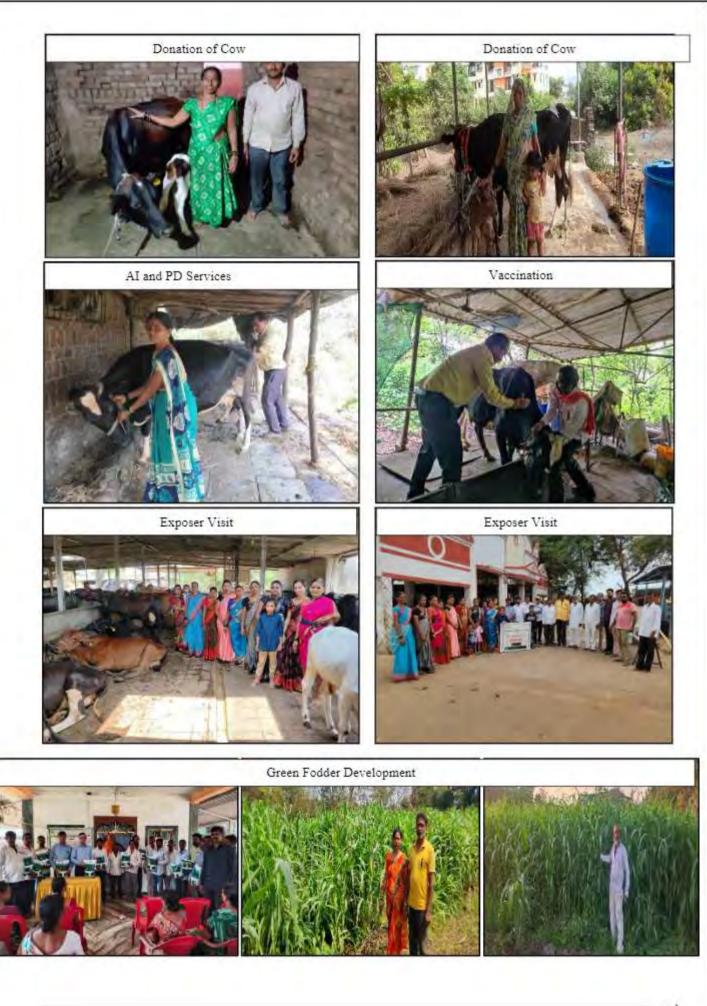
Dairy is an important subsidiary source of income for small/marginal and agricultural laborers in rural areas. The manure from animals provides good source of organic matter to improve soil fertility and crop yield. The surplus fodder and agricultural by products are gainfully utilized for feeding the 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.



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	0.01	100	Support has been given to 72 Participants.
5	Artificial Insemination	No. of Al	1004	PD-957/929 (CPD-412; Empty-82; Repeat-435 & Pending-28=929) CPD Rate: 44.34% Calving: Male-141 & Female: 183
В	Capacity Building	<i>v</i>		
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 Waghol and Uralikanchan BAIF campus Pune.
	Internal Exposure	Nos.	3	Conducted Exposure visit at Ideal Dairy Farm within the project. Total participants joined these exposures.
С	Fodder Development			
1	Napier Grass	No. of	20	Developed 20 Plots
2	Azolla	Plots	10	Developed 10 Demo



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.

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 2.55 Lakk Rupees for Second Year.
2	Tailoring Course Pale Kh. Centre	Nos of Aspirants	55	 51 Aspirants Completed Course 16 Aspirants Drop Out 04 aspirant's ongoing course
в	Pune urban			
1	Various job-oriented courses	Nos of Aspirants	524	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. Soft skills training includes Spoken English Personality Development and Yoga sessions Talks on Health awareness, Financia Literacy & Environmental awareness. As pe requirement experts were invited to train the aspirants to improve their soft skills.



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 Taloja MIDC through preventive health care services. This hollstic 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



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

Major Achievements:

Sr. N.	Activity	Unit	Achi	Remarks
A.	Taloja			
1	Mobile Clinic	Nos. Patients	15771	Doorstep health services provided to 15771 patients through mobile clinic from 21+ villages in and around Taloja MIDC.
2	Eye Check Up Camp	Nos	4	 Patients Screened: 1025 386 were diagnosed with cataract & 220 cataract operations were performed. 306 patients with vision error, provided spectacles.
ł.	Cataract Surgery	Nos	232	232 Patients Cataract surgeries have been done.
ij	Spectacle Distribution	Nos	320	Spectacle distributed to 320 patients.
Ìγ	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	Nós	1750	Distribution Seasonal Kitchen Garden Seed Kit to 1750 Aspirants. (12 Types of Vegetable seed in one Kit)
5	Support of Computer, printer & invertor with Battery to PHU Valap	Nos	1	Donated One Set Computer, printer & invertor 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.

В	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 Anganwadi-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			Contraction of the second
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

Cataract Operate



School Student Eye Check-up



Computer Distribution to Valap PHU

Eye Camp





Spectacle Distribution

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 DFPCL 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
Α	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 RZF 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
В	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 Rahiyac secondary school
5	Rahiyad Secondary and Higher secondary school Teacher for class 11th & 12th commerce	Months	06	



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

Sr. N.	Activity	Unit	HY- Achi	Remarks
А	Taloja			
1	Support to Individuals towards Enhancing Entrepreneurship	Nos	58	Provided various types of tools and equipment for strengthening their existing businesses.
В	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

Major Achievements:



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 ac ng 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.
В	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.



Page

CSR expenditure details for the Financial Year 2022-2023

SN	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		1,91,82,714.0 0	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

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Media And Coverage Taloja

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Raigad Nagari 19 Oct 22

ईशान्य फाउंडेजन व लक्ष्मी चॅरिटेवल रस्ट पनवेल यांच्या वतीने नेत्र तपासमी शिबीर संपन्न



Dainik Mahasagar 17 Oct 22





दिपक फहिलावडाने आणि ईशान्य

पनउंडेशन मार्पत 'आरोग्य अनुआगृती' कार्यक्रम संघन





दिपक फर्टिलायझर्स कंपनीच्या ईशान्य फाउंडेशन कडन वळवलीतील अंगणवाडी नुतनीकरण



पनवेल लोकरत्न प्रतिनिधी

दीपक फर्टिलायझर्सच्या ईम्रान्य फाउंडेमन या संस्थेच्या माध्यमातन वळवलीतील अंगणवाडीच्या दोन खोल्यांचे नुतनीकरण केलेल्या वास्तुचे लोकापण सोहळा मंगळवार दि, १९, अग्रेक्टोबर रोजी सकाळी १९ बाजता कंपनीचे वरिष्ठ महाव्यवस्थापक संतराम चलवाड

व पंचायत समिती माजी सभापती काशिनाथ पार्टील बांच्या हस्ते फीत कापून करण्यात आले.बाबेळी प्रमख उपस्थिती नगरसेविका प्रत्योती प्राप्ते,महाव्यवस्थापफ- सिव्हिल सी मनीष पंडित, एवहीपी सिव्हिल राहल वैद्य,

वरिष्ठ व्यवस्थापक- संदिप काकडे, प्रकल्प व्यवस्थापक- इंग्राज्या फाउंडेशन योगेश पारील. यांचे स्वागत प्रकाश महात्रे व माजी सरपंच, हाळा कमिटी ग्रामस्था आर्टीन करून फरण्यात आले

तसेच ग्रामस्थांकडून व अंगणवाडी फडून दीपक फरीलायझा कंपनी व ईशान्य फाउंडेशन या संस्थेचे आधार पत्र देउल आधार मानले यावेळी प्रकाम महात्रे वांचे ग्रामस्थांकडन या कार्यासाठी स्वागत करण्यात आले

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स काक्स लाहे लाकाक प्र साम्या पहिला प्रतिकृत बार्वसालेन उली। की एवं anter is untilla surve faile avenue असे होते जा, मामले-वेरेना संसारण्ड-सीम्प्रजा DEPCL. WHIT HOR-कर्मन साम्यान-क्रमी व देव की बावियान वर्ण FOTHER RE LITERAL MERCER कर्त रोगे.