

Date: 24-NOV-21

DFPCL-K1/EHS/Env/2021-22/13

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 **April-2021 to September -2021**.

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

CORPORATE OFFICE: Sai Hira, Survey No. 93, 25 / A1 and 25 / B1, CTS - 1130, Mundawa Ghorpadi Road, Mundawa, Pune - 411 036

Tel. : + 91 20 6645 8000 Web : www.dfpcl.com

CIN: L24121MH1979PLCO21360

			DATA SHEET
1		Project type: River - valley/ Mining / Thermal/ Industry / Nuclear/ Other (specify)	Industry
2		Name of the project	Iso Propyl Alcohol (IPA 70000 MTA) Project at MIDC, Taloja, Maharashtra by Deepak Fertilisers & Petrochemicals Corporation Limited
3		Clearance letter (s) /OM No. and Date	EC granted for Iso Propyl Alcohol vide file no. (J-11011/218/2004-IA II(I) dt 24.02.2006)
4		Location	
	a.	District (S)	Raigad
	b.	State (S)	Maharashtra
	c.	Latitude/longitude	19°04'11.3"N/73°08'04.1"E
5		Address for correspondence	
			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
		Address of Executive Project: Engineer/Manager (with pincode/ Fax numbers)	Same as above
6	-	Salient features	
	-	of the project	Annexure-A
<u> </u>		of the environmental management plans	Annexure-B
7		Break up of the project area	NA (MIDC Land)
		submergence area forest & non forest Others	NA, (MIDC Land) NA
8		Break up of the project affected Population with enumeration of Those losing houses/dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan	NA, (MIDC Land)
		SC, ST/Adivasis	NA, (MIDC Land)
		Others (Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey)	NA .
9	-	Financial details.	
		price reference	153.7 Crores
		Break-up.	Yes. Year 2021-22. 1. Rs. 39 lakhs for Plantation and Maintenance of Tree plantation 2. Rs. 60 lakhs for Green Belt development 3. Rs. 20 lakhs for plantation nearby village 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 AAQMS 8. Rs. 0.7 lakhs AMC for PM Analyzer 9. Rs. 01 lakhs for OCEMS Glens portal development
	c.	Benefit cost ratio/Internal rate of Return and the year of assessment	-
	d.	Whether (c) includes the Cost of environmental management as shown in the above.	Yes
		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)
10	_	Forest land requirement	
		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)
11		The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information Status of construction	NA, (MIDC Land)
112	-	Date of commencement (Actual and/or planned)	Year 2005
		Date of commencement (Actual and/or planned) Date of completion (Actual and/of planned)	Year 2006
13			NA
14		Dates of site visits	····
	a.		NA NA
		Date of site visit for this monitoring report	NA
15		Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits)	NA NA

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-LyondeD The facility will have a capacity to produce 70,000 tonnes of IPA at its Taloja unit in Raigad District of Maharashtra with a capital outlay of Rs 153.7 crores, meeting India's major requirement of the chemical. IPA is a key ingredient in sectors such as pharma, agrochemicals, organic chemicals, imaging (printing &inks), health care & paint industry.

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

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

1.1 Need For The Project

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

1.2 Need For EIA Studies

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

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

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

1.3 The Surroundings

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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.

Salient Features Of The Proposed Isopropyl Alcohol Plant at Taloja

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

2.0 Process Description

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

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

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

Catalyst

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

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

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

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

3.2 Noise Environment

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

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

3.3 Water Quality

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

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

Ground water

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

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

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

Surface water

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

3.4 Soil Quality

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

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

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

4.0 Identification Of Impacts

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

4.1 Construction Related Impacts

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

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

4.2 Operation Related Impacts

Air Environment

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

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

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

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

Stack and Emission Details

Stack	Attached	Height	Dia.	Velocity	Volume	Temp.	SPM	SO2
No	to	(m)	(m)	(m/s)	NM ³ /hr	۰K	g/s	g/s
1	Boiler 30TPH	63.5	1.4	15	51550	443	0.60	42

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

Predicted baseline values of SPM and SO₂ in SW direction

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

(24 hrly average)

Water Environment

The entire wastewater generated 667 m³/day is treated in the existing effluent treatment plant before sending to Common CETP (used as dilution water) for further disposal. However, to meet the new demands, slight modifications are proposed in the existing ETP. The effluents after treatment will be routed to Taloja Common effluent Treatment plant Co-op Society 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.

CHAPTER-V ENVIRONMENTAL MANAGEMENT PLAN

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

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

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

5.1 Environmental Management Plan

Preparation of Environmental Management Plan Js 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 spraying water on the unpaved roads and covering the trucks transporting the construction material with terpaulin or other covers and taking steps to minimize spillages during the transport and the handling of the material.

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

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

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

5.3 Post Construction Phase

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

The design basis for all process units will lay special emphasis on measures to 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 ambient air will increase slightly due to the emissions from the proposed boiler. The desired stack height of 63.5 m will be provided as per the

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

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

a) Point Source (Boiler) Emissions

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

Particulate matter, SO₂ and NOx are the major emissions from the plant. However as the fuel proposed to be used for boiler being furnace oil and purge gas Particulate matter envisaged is negligible, and for proper dispersion of SO₂ and 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.

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

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Table 5.1

Details of Stack height calculation for Boiler and DG

Details of Stack Heig	in calculation for boller and bo
Boiler	Specifications
Capacity	30TPH
Fuel Consumption	52 TPD furnace oil and 12 TPD Purge gas
Sulphur %	0.35% furnace oil
Sulphur dioxide content	52000*0,035*2/24 = 151.7 kg/hour
Stack height as per MoEF	14 (SO ₂ kg/hr) ⁰³
Stack Height H meters	14(151.7) ^{0.3} = 63.15 m
proposed stack height	63.5 m
Particulate malfer control system	Cyclone and programmable Logic Control – Supervisor Centrol and Data Acquisition System.(PLC-SCADA) based system.
DG set	
Capacity	75 KVA
Stack height as per MOEF	H=h+0.2 √KVA
Stack height H meters	Height of building +0.2√75 KVA = 1.73m or say 2 meters
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b) Non Point source (Fugitive) emissions

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

Table 5.2

Control measure proposed for controlling Fugitive emissions

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

5.3.2 Air Quality Monitoring

a) Stack Gas Monitoring

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

b) Ambient Air Quality Monitoring

The concentration of SPM, SO2 and 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

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The water requirement at maximum production would be 2785.2 m³/day, for all its purposes including process, floor and reactor washings, boiler, cooling tower, canteer/ domestic requirements. The total wastewater generated from the proposed project is 667 m³/day. The dotails of waste water generation are given in Table 5.3

Table 5.3 Wastewater Generation Details~ m³/day

S.No	Description	Effluent	Remarks
1	Domestic	1.2	STP
2	Cooling tower	249.6	ETP
3	DM Plant	57.6	ETP
4	Process, reactor wash, floor	317.328	ETP
	washes, etc	14.52	ETP
	Parameter Control	2.684	STP
5	Boiler	24	ETP
6	Export	0	-
	Total	666.912	

5.4.1 Effluent Treatment Plant Details

1. Details of Proposed IPA plant

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

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

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

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

2. Details of Existing Effluent Treatment Plant of Parent Organization

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

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

a) Phosphate removal

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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 lime. The overflow through gravity will go to clarifloculator for separation of calcium phosphate studge. The studge is sent to centrifuge and the centrate 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 get dissociated into ammonia gas and H* ions.

c) Ammonia stripping

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

The above treated 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 treated 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 treated water from state I denite bioreactor goes to clarifier I for separation of suspended biomass part of the biomass is recycled for stablization and excess sludge is sent to sludge drying beds.

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

e) Polishing/aeration

The treated wastewater over flowing from denite clarifier is collected in polishing aeration tank which is provided with polishing diffuse agration 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 Treatment Facilities

S.No	Code No	Units
1	CTI	Collection /holding Tank, CT-I
2	RTI	Reaction Tank-I
3	CF 1	Clarifloculator
4 5	AS 1	Ammonia stripper Stage-I
5	AS II	Ammonta stripper Stage-II
6	RTIIA	Reaction Tank-IIA
7	RTIIB	Reaction tank -IIB
8	RTIII	Reaction Tank-III
9	DN I	Denitrification tank stage-I
10	CL1	Clarifier stage-I
11	DN II	Denitrification tank stage-
12	CL II	Clarifier stage-II
13	PT	Polishing tank

Table 5.5

Wastewater Characteristics - Before & After Treatment

S.	Parameters	Units		Before		After
No			Process, washes, etc	CT, Boiler, DM	Domestic & Process	Range
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	BOD	Mg/I	146	18	507	<100
4	COD	Mg/I	247	23	845	<250
5	Oil & Grease	Mg/I	<10	<5	<5	<10
6	TDS	Mg/I	697		831	<800
7	Amm. Nitrogen	Mg/I	94			<50
8	KJ Nitrogen	Mg/I	247		-	-
9	Phosphates	Mg/I	99		-	<1

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

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3) Domestic Sewage Treatment Plant

The sanitary sawage 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 agration tanks followed by clarifier. The existing sawage treatment plant consists of settling tanks, agration tanks, and clarifiers.

5.4.2 Monitoring of Waste Treatment

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

5.4.3 Storm Water Drainage

Based on the rainfall intensity of the proposed area, 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 efficiently drained off to without any water logging.

5.5 Noise level management

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

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

By selecting low noise prone equipment

M/s Despot Fertilisers & Perochemicals Corporation Ltd.

By isolating the noise prone unit from the working personnel's continuous

The administrative control would have a major role to monitor noise, take remedial

- The use of damping material such as thin rubber/lead sheet for wrapping
- 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
- Inlet and outlet mufflers should be provided which are easy to design and
- Ear plugs will be provided to workmen working near high noise generating
- Noise levels should be reduced by the use of absorbing material on roof
- Increase the distance between source and receiver by altering the relative orientation of the source and receiver. Noise level at the receiver end reduces in Inverse proportion to the square of the distance between the receiver and the source;
- Provision of separate cabins for workers/operators; and

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 The industrial compound should be thickly vegetated with species of rich canepy

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

5.6 Solid Waste Management

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

Table 5.6 Solid Waste Generation & Disposal

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

5.7 Green Belt Development

The purpose of a greenbelt around the plant site is to capture the fugitive emissions, attenuate the noise generated and improve the 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. Adequate attention will be paid to plantation of trees, their maintenance and protection. During commissioning of the project management is proposing to develop a greenbelt all along the boundary wall of plant, along the roads, and surroundings of the production block, boiler, ETP, etc.

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

5.7.1 Plant Species for Greenbelt

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

- A Fast growing type
- Should have a thick canopy cover.
- A Should be perennial green.
- Native origin

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Should have a large leaf area index.

5.7.2 Design of Green Belt

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

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

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

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

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Table 5.7 .
Plant Species Recommended For Reduction Of Noise Level

S. No	Scientific Name	Common Name
1	Azadirachta indica	Neem
2	Aegle mamelos	Bel
3	Calbezia trocera	Dhala sirisa
4	Carissa carandas	Karaunda
5	Peltophorum inerme	Perungandrai
6	Sarada Indica	Asoka
7	Syzyglum cumini	Zaman
8	Tamarindus indica	lm/i
9	Pongamia pinnata	Beng
10	Cassia slamia	Chakundi

Table 5.8

Plant Species Recommended For Protection Against Gases And Particulates

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

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Table 5.8 Suggested Plant Species For Green Belt Development

S. No	Scientific name	Common Name
	Large Plants	
1	Cedrreia loona	Mahanim
2	Dalbergia sissoo	Shisham
3	Azadirachta indica	Neem
4	Defonix regia	Gul mohr
5	Millingtonia hortensis	Aksh nim
6	Miomosops elengi	Maulseri
7	Peltophorum inerme	Perungondrai
8	Samania saman	Debdari
9	Thespisia populnea	Paras papal
VII. 100	Medium Plants	
1	Cassia siamia	Kassod
2	Dillenia indica	Chalta
3	Mathuca indica	Mahua
4	Casuriana equisetifolia	Jungali Suru
5	Pongamia pinnata	Beng
G	Tabulia spasiosa	-
7	Ticoma stans	
8	Terminalia catappa	Jangli badam
9	Thevetia peruviana	Pile kamer
10	Lucgena leucocophala	Subabul
	Small Plants	
1	Averehoa carabbota	Carabola
2	Nallotus philippensis	Sundur
3	Artaboteys odoratissimus	Madanmast
4	Caesalpinia pulcherima	Gulotora
5	Callistemon lanceolatus	Bottle brush
6	Caryota urens	Mari
7	Cestrum dirunum	Din-Ka Raja
8 .	Nelia azedarch	

Table 5.10 Suggested Plant Species For Road Side Plantation

S. No	Scientific Name	Common Namo	
1	Azadirachta indica	Neem	
2	Pongamia pinnata	Beng	
3	Saraca Indica	Ashoka	
4	Defonix regia	Gut mohr	
5	Peltophorum inerme	Copper pod tree	
G	Samania saman	Rain tree	
7	Cassia nudosa	Pink cassia	
8	Bassia latifolia	Mahuva	
9	Bahunia variegate		

5.8 Industrial Safety, health & Hygiene:

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

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

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

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

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Environmental Laboratory Equipment . -5.9

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

Table 5.11 List of Equipment of Environmental Laboratory

Nan	ne of the Equipment
We	ather Monitoring Station
a) C Ten	Inline Automatic gaseous stack monitoring kit for SO_2 , NO_2 , O_2 , Flue gas volume operature etc.b) On line dust monitor
RD	Samplers
Port	table Flue Gas Combustion Analyser
Bon	nb Calorimeter for analyzing sulfur content, calorific value etc.
	nic Absorption Spectrophatometer
Mer	cury analyzer
Pori	lable Noise level meter (Dosimeter)
Por	table Waste Water Analysis Kit
BO	Incubator & COD Digester with colorimeter
Elec	dronic Balance
Col	orimeter
Cor	ductivity Meter
Diff	erent micron sleves (set)
Dis	solved Oxygen Meter – Portable type
Ele	ctronic colony counter
Flas	sk Shaker
Hot	Air Oven
Lab	oratory Water Distillation and demineralization unit

5.10 Post Project Environmental Management

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

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

The department is the nodal agency to co-ordinate and provides necessary services on environmental issues during operation of the project. This environmental group is responsible for implementation of environmental management plan, interaction with the environmental regulatory agencies, reviewing draft policy and planning. This department interacts with 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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Environmental Management Cell

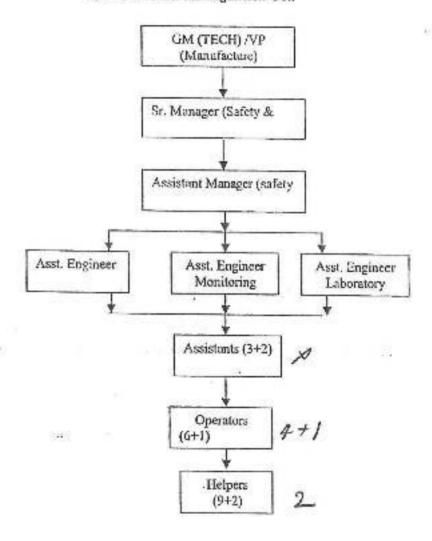


Figure 5.3 Environmental Management Cell

SN	Specific Conditions	Status of compliance as on 30/09/2021
514	Specific conditions	Status of compliance as on 30/03/2021
	The gaseous emissions (SO ₂ , NOx, NH ₃ & HCI) and particulate matter from various process units shall confirm to the standards prescribed by authority from time to time. At no time the emission levels shall go beyond the stipulated standards. The Stack height shall be as per CPCB guidelines. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Further, the company shall interlock the production system with the pollution control devices.	There is no process stack in IPA emitting any gaseous emissions (SOx, NOx, NH3, HCI & SPM). However monitoring of other plants stacks is being done by third party. Online Continuous Emission Monitoring System installed on individual process and utilities stacks. The stacks meet height requirement as per CPCB guidelines. All care is taken to keep the pollution control devices operational. (Annexure - 1)
ii)	Amient Air Quality monitoring stations shall be set up in the downwind	Three continuous monitoring AAQM stations are installed and connected to MPCB por
	direction as well as where maximum ground level concentrations are anticipated in consultation with the MPCB.	and operated continuously.
iii)	Fugitive emissions in the work zone environment, product and raw material storage area shall be regularly monitored. The emissions shall be controlled and confirm to the limits prescribed by CPCB.	In IPA plant fugitive emissions are hydrocarbon and 11 detectors are installed at critical locations.
iv)	Total water requirement should not exceed 2800 m3/day as per permission accorded by MIDC vide letters dated 03.03.04 and 07.07.05. Further, efforts shall be made for further conservation of water and utilization of waste water.	Water requirement doesn't exceed. We have developed better method of utilization of the RO by processing MIDC RW, this has reduced inlet effluent to ETP by more than 60 m3/day. Treated effluent of 100 m3/day is also utilized in the NPK process. As a part of water conservation waste water of the plants is utilized to reduce fresh water consumption.
v)	The effluent generation shall not exceed 667 m3/day. All the effluent shall be treated in the augmented ETP and shall be monitored for the pH, SS, TDS, O & G, BOD, COD, Phosphates & ammoniacal Nitrogen & other relevant parameters. All the treated effluent shall be sent to CETP at Taloja for further treatment. The domestic effluent shall be treated in the existing Sewage Treatment Plant.	Effluent generation is maintained within the stipulated norms. In IPA plant itself the COD water stream treated in organic recovery column to reduce the COD before sending it to ETP. In addition to monitoring of all the ETP parameters (pH, TSS, TDS, O & G, BOD, COD, Phosphates & ammoniacal Nitrogen & other relevant parameters) through sampling internally and third party, OCEMS is installed for monitoring of ETP parameters (pH, TSS,BOD, COD, NH4 N, NO3N, Fluorides and Flow) Treated effluent is sent to CETP Taloja. Domestic effluent is used at ETP bioreactor. (Annexure - 2)
vi)	The company shall undertake following Waste Minimization measures: * Metering and control of quantities of active ingredients to minimize waste * Reuse of by-products from the process as raw materials or as raw material substitute in other processes. * Use of automated filling to minimize spillage * Use of close feed system into batch reactor * Venting equipment through vapour recovery system * Use of high pressure hoses for equipment cleaning to reduce waste water generation	*No active ingredient involved in IPA *Propane and Di Isopropyl Ether are the by products from IPA plant and these are sold to customers. *All the tankers are filled through the closed automated system to avoid the spillage. *Our IPA plant is a continuous process and closed filled system is provided to reactor. *As such there is no venting equipment however critical vents are connected to flare system. *High pressure are used to clean the equipments during shutdowns.
-	The solid waste generated in the form ETP sludge shall be stored in HDPE lined secured landfill at the site. Spent catalyst and used oil shall be sold to authorized re-processer.	After inhouse study and after characterstic analysis of the ETP sludge by thrid party, it was revealed that the ETP sludge can be used as filler in our fertilzier. Hence we send ETP sludge to CHWTSDF facility only when there is need to send it, like plant is under shutdown. We have received approved CTO for reuse of ETP sludge in NPK plant as a filler. Spent catalyst and used oil are sold to authorized re-processor.
·	The project authorities shall strictly comply with the rules and guidelines under MSIHC Rules, 1989 as amended in October, 1994 and January 2000 and HWMH Rules, 2003 as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	All related provisions of MSIHCR-1989 and HWMHR-2003, with their amendments are complied with. Authorization through CTO, valid till 31/03/2026, is obtained from MPCB for collection
ix)	Company shall develop surface/roof top rain water harvesting structures to harvest runoff water for recharge of ground water.	Rain water harvesting system is provided at WNA 3 plant.
x) 	Green belt shall be provided in at least 25% of the plant area to mitigate the effects of fugitive emission all around the plant. Development of green belt shall be as per CPCB guidelines.	· ·
xi)		Medical examination of all the workers is done once in a six month as per the factories act and records are maintained.

SN	General Conditions	Status of compliance as on 30/09/2021
· ·	Project authorities shall strictly adhere to the stipulations made by the MPCB	Complied.
	At no time the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be put out of operation and shall not be restarted until the desired efficiency has been achieved.	Same as specific condition No. 1.
	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance, a fresh reference shall be made to the ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied
	acoustic hoods, silencers, enclosures, etc. on all sources of noise generation.	(Annexure - 3)
-	The Project Proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.	Environment protection measures and recommendations given in EIA are complied with.
	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry-out the Environmental Management and Monitoring functions.	A separate Environmental Management Cell equipped with required facilities is set up.
	The Project authorities shall earmark separate funds of Rs 25.80 lakhs to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Noted
-	The Company shall undertake welfare measures and community development measures for the local people in the vicinity of project area.	CSR activities are carried out through Ishanya Foundation Trust, set up by the company for rural development, women empowerment, health & education. (Annexure - 4)
	be monitored by the Ministry's Regional Office at Bhopal / MPCB / CPCB. A	Six monthly compliance reports are being sent to Regional Office of MOEF/MPCB/CPCB. Last report was sent on 31 st May 2021. Copy of the same posted on the company's website.
	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
	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

List of Annexures Submitted					
Annexure. No. Content					
1	Stack Monitoring Reports				
2	Treated water analysis report				
3	Ambient Noise Monitoring Reports				
4	CSR Report				

Annexure 1: Stack Monitoring Reports



		12011	LI OILI		
Custome		ilisers And Petroche			
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Custome	er Reference: P.O. no. 1100005	5118, Dated 07.01.2	021		
Sample 1	Type : Process Gas (Sta	ack)	Sampling Do	ne By : Netel (Inc	dia) Limited
Stack Co	onnected to : Boiler-B		Stack Diamet		
Date of S	Sampling : 28.07.2021		Analysis Date		21 — 02.08.2021
Sample F	Received : 30.07.2021		Date of Repo		
Sampling	g Location : Boiler-B		Sample Code	: NIL/ST/0	7/21/067
Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	105	°C		IS 11255 (Part 3)
2	Velocity of Gas	6.40	m/sec		IS 11255 (Part 3)
3	Volumetric Flow Rate	32043	Nm³/hr		IS 11255 (Part 3)
4	Sulphur Dioxide	4.4	mg/Nm³		IS 11255 (Part 2)
		1.7	ppm		
	The state of the s	3.384	kg/day		
5	Oxides of Nitrogen	122.8	mg/Nm³	350	IS 11255 (Part 7)
		65.3	ppm	<u></u>	
		94.437	kg/day		
6	Carbon Monoxide	6.7	mg/Nm³		USEPA - 10A
		5.9	ppm		
		5.153	kg/day		

Note: 1. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.

2. This Test Report refers only to the sample tested.

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

Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

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Technical Manager





CIN: U74999MH2003PLC142228



Custome		ertilisers And Petroche			
Custome	r Address : Taloja Plant P	lot K-1, MIDC Industria	l Area, P.O. Ta	lloja Dist. Raigad 410	0208 Maharashtra
Custome	r Reference: P.O. no. 1100	005118, Dated 07.01.2	021		
Sample T	ype : Process Gas	Stack)	Sampling Do	ne By : Netel (Inc	dia) Limited
Stack Co	nnected to : HRSG-1		Stack Diamet	ter : 1500 mm	1
	ampling : 28.07.2021		Analysis Dat		21 — 02.08.2021
	Received : 30.07.2021		Date of Repo	-	
Sampling	Location : HRSG-1		Sample Code	: NIL/ST/0	7/21/068
Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	103	°C		IS 11255 (Part 3)
2	Velocity of Gas	10.79	m/sec	A STATE OF THE STA	IS 11255 (Part 3)
3	Volumetric Flow Rate	54281	Nm³/hr	<u> </u>	IS 11255 (Part 3)
4	Sulphur Dioxide	5.9	mg/Nm³	<u> </u>	IS 11255 (Part 2)
		2.3	ppm	<u></u>	
		7.686	kg/day		
5	Oxides of Nitrogen	15.2	mg/Nm³		IS 11255 (Part 7)
		8.1	ppm	50	
		19.802	kg/day		
6	Carbon Monoxide	19.4	mg/Nm³		USEPA - 10A
		16.9	ppm		
		25.273	kg/day		

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

Technical Manager





CIN: U74999MH2003PLC142228



Custome		rtilisers And Petroche			
		t K-1, MIDC Industria		loja Dist. Raigad 41	0208 Maharashtra
Custome	r Reference: P.O. no. 110000)5118, Dated 07.01.2	.021		
Sample T	ype : Process Gas (S	tack)	Sampling Do		dia) Limited
Stack Co	nnected to : HRSG-2		Stack Diamet		NA.
Date of S	campling : 28.07.2021		Analysis Date		021 — 02.08.2021
Sample F	Received : 30.07.2021		Date of Repo		
Sampling	g Location : HRSG-2		Sample Code	: NIL/ST/(07/21/069
Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	109	°C		IS 11255 (Part 3)
2	Velocity of Gas	10.65	m/sec	La BARTATA	IS 11255 (Part 3)
3	Volumetric Flow Rate	52735	Nm³/hr		IS 11255 (Part 3)
4	Sulphur Dioxide	6.1	mg/Nm³	-	IS 11255 (Part 2)
		2.3	ppm		
	1 3	7.720	kg/day		
5	Oxides of Nitrogen	10.8	mg/Nm³		IS 11255 (Part 7)
		5.7	ppm	50	
		13.669	kg/day		
6	Carbon Monoxide	24.1	mg/Nm³		USEPA – 10A
		21.0	ppm		
		30.502	kg/day		

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

Technical Manager

End of Report







			VEI OIVI		
	er Name : M/s. Deepak Fertil	isers And Petroche	emicals Corpora	ation Limited.	
Custome	er Address : Taloja Plant Plot K	(-1, MIDC Industria	l Area, P.O. Tal	loja Dist. Raigad 410	0208 Maharashtra
Custome	er Reference: P.O. no. 1100005	118, Dated 07.01.2	.021		
Sample 1	Type : Process Gas (Stac	ck)	Sampling Do	ne By : Netel (In	dia) Limited
Stack Co	onnected to : HRSG-5		Stack Diamet	er : 1500 mn	ı
Date of S	Sampling : 28.07.2021		Analysis Date	e : 30.07.20	21 — 02.08.2021
Sample F	Received : 30.07.2021		Date of Repo		7.57.51
Sampling	g Location : HRSG-5		Sample Code	: NIL/ST/C	7/21/070
Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	129	°C		IS 11255 (Part 3)
2	Velocity of Gas	11.06	m/sec		IS 11255 (Part 3)
3	Volumetric Flow Rate	52041	Nm³/hr		IS 11255 (Part 3)
4	Sulphur Dioxide	6.6	mg/Nm³	<u>-</u>	IS 11255 (Part 2)
		2.5	ppm	<u>-</u>	
		8.243	kg/day	<u></u>	
5	Oxides of Nitrogen	8.6	mg/Nm³		IS 11255 (Part 7)
		4.6	ppm	50	
		10.741	kg/day	<u></u>	
6	Carbon Monoxide	12.6	mg/Nm³		USEPA - 10A
		11.0	ppm		
		15.737	kg/day	<u>-</u>	

Note: 1. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.

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Verified by:

Issued by:

Surekha Jamdar

Dy. Technical Manager

Shraddha Kere

Technical Manager





CIN: U74999MH2003PLC142228



Custome	r Name : M/s. Deepak Fertil	isers And Petrocl	nemicals Corpor	ation Limited.	
Custome	r Address : Taloja Plant Plot k	(-1, MIDC Industr	ial Area, P.O. Ta	loja Dist. Raigad 41	0208 Maharashtra
Custome	r Reference: P.O. no. 1100005	118, Dated 07.01	2021		
Sample T	ype : Flue Gas (Stack)		Sampling Do	ne By : Netel (In	dia) Limited
Stack Co	nnected to : HRSG No. 5		Stack Diame	ter : 1500 mr	n
Date of S	ampling : 16.04.2021		Analysis Dat	e : 19.04.20	21 — 22.04.2021
Sample F	Received : 19.04.2021		Date of Repo	orting : 23.04.20	021
Sampling	Location: HRSG No. 5		Sample Code	e : NIL/ST/0	04/21/016
Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	104	°C		IS 11255 (Part 3)
2	Velocity of Gas	11.04	m/sec		IS 11255 (Part 3)
3	Volumetric Flow Rate	55238	Nm³/hr		IS 11255 (Part 3)
4	Sulphur Dioxide	5.9	mg/Nm³	+	IS 11255 (Part 2)
		2.3	ppm	§ 1	
		7.822	kg/day		
5	Oxides of Nitrogen	8.3	mg/Nm³		IS 11255 (Part 7)
		4.4	ppm	50	
		11.003	kg/day		
6	Carbon Monoxide	10.5	mg/Nm³	Ī	USEPA - 10A
		9.2	ppm		
		13.920	kg/day	h	

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

Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

Technical Manager

End of Report



CIN: U74999MH2003PLC142228

Office & Laboratory: W-408, Rabale MIDC, TTC Industrial Area, Navi Mumbai - 400 701.

Phone: 72080976 92 / 93 / 94 / 95 • Website: www.netel-india.com • E-mail: ems@netel-india.com

Registered office: Liberty Building, 3rd Floor, Sir Vithaldas Thackersey Marg, (New Marine Lines), Mumbai - 400 020.





TEST REPORT

			ILUI	IXLI OIXI		
Custome	r Name : M/s. Deep	ak Fertili	sers And Petroc	hemicals Corpora	tion Limited.	
Custome	r Address : Taloja Pla	nt Plot K-	-1, MIDC Industr	ial Area, P.O. Tal	oja Dist. Raigad 410)208 Maharashtra
Custome	r Reference: P.O. no. 1	1000051	18, Dated 07.01	.2021		- A
Sample Type : Process Gas (Stack)			Sampling Dor	e By : Netel (Inc	dia) Limited	
Stack Co	nnected to : WNA - 3			Stack Diamete	er : 953 mm	
Date of S	ampling : 11.06.202	1		Analysis Date	: 14.06.20	21 — 17.06.2021
Sample F	Received : 14.06.202	1		Date of Repor	ting : 18.06.20	21
Sampling	Location: WNA - 3			Sample Code	: NIL/ST/0	6/21/050
Sr. No.	Parameter		Result	Unit	Consent Limit	Method
1	Temperature		132	°C		IS 11255 (Part 3)
2	Velocity of Gas		2.25	m/sec		IS 11255 (Part 3)
3	Volumetric Flow Rate		4245	Nm³/hr		IS 11255 (Part 3)
4	Oxides of Nitrogen		141	mg/Nm³	J	IS 11255 (Part 6)
			253.7	ppm		
			14.365	kg/day		
			0.0506	kg/ton of WNA	3	
5	Ammonia		15.7	mg/Nm³		IS 11255 (Part 6)
			22.6	ppm		
			0.0666	kg/hr		

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2. This Test Report refers only to the sample tested.

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

Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

Technical Manager







TEST REPORT

Custome	r Name : M/s. Deepak Fertil	isers And Petroch	nemicals Corpora	tion Limited.		
Custome	r Address : Taloja Plant Plot K	(-1, MIDC Industri	al Area, P.O. Talo	oja Dist. Raigad 410	0208 Maharashtra	
Custome	r Reference: P.O. no. 1100005	118, Dated 07.01.	2021			
Sample Type : Process Gas (Stack)			Sampling Dor	ne By : Netel (In	dia) Limited	
Stack Co	nnected to : WNA - 3	i	Stack Diameter : 953 mm			
Date of S	ampling : 05.05.2021		Analysis Date	021 — 10.05.2021		
	Received : 07.05.2021)	Date of Repor	ting : 11.05.20)21	
Sampling	Location: WNA-3		Sample Code	: NIL/ST/0	05/21/025	
Sr. No.	Parameter	Result	Unit	Consent Limit	Method	
1	Temperature	132	°C		IS 11255 (Part 3)	
2	Velocity of Gas	2.14	m/sec		IS 11255 (Part 3)	
3	Volumetric Flow Rate	4032	Nm³/hr		IS 11255 (Part 3)	
4	Oxides of Nitrogen	120	mg/Nm³		IS 11255 (Part 6)	
		216.0	ppm			
	40 110	11.612	kg/day			
		0.0424	kg/ton of WNA	3		
5	Ammonia	21.2	mg/Nm³		IS 11255 (Part 6)	
		30.5	ppm	50	22	
		0.0855	kg/hr			

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

Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

Technical Manager







Annexure 2: Treated Water Analysis Reports



TEST REPORT

				and the second s	And the state of t
Custon	ner Name : M/s. Deepak Fertili	sers And Petroc	hemicals Corpo	ration Limited.	
Custon	ner Address : Taloja Plant Plot K	-1, MIDC Industr	ial Area, P.O. T	aloja Dist. Raigad 410)208 Maharashtra
Custon	ner Reference: P.O. no. 11000051	18, Dated 07.01	.2021		
MoEFC	C Validity : 16 October 2024		NABL Valid	ity: 19 March 2	022
Sample Type : Treated Waste Water			Sampling D	one By: Netel (India	ı) Limited
Sample	Packaging: Plastic Bottle		Sample Qua	antity : 2 Litres	
Date of	Sampling : 14.04.2021		Analysis Da	te : 16.04.2021	— 19.04.2021
Sample	Received : 16.04.2021		Date of Rep	orting : 20.04.2021	
Sampli	ng Location: Treated Effluent (ETI	P)	Sample Cod	de : NIL/W/04/2	1/075
Sr. No.	Parameters	Result	Unit	Consent Limits	Method
1	рН	7.61		6.5 - 8.5	APHA 4500(H+)-B
2	Total Dissolved Solids	1922	mg/lit	2100	APHA 2350-C&D
3	Total Suspended Solids	54	mg/lit	100	IS 3025 (Part 17)
4	COD	94	mg/lit	250	APHA 5220-B
5	BOD	27	mg/lit	100	IS 3025 (Part 44)
6	Residual Free Chlorine	BDL	mg/lit	1	IS 3025 (Part 26)
7	Fluoride	0.9	mg/lit	1.5	APHA 4500(F)-D
8	Nitrate Nitrogen	13.8	mg/lit	20	APHA 4500(NO ₃)-B
9	Phosphate	4.7	mg/lit	5	APHA 4500(P)-C
10	Free Ammonical Nitrogen	1.27	mg/lit	2	IS 3025 (Part 34)
11	Ammonical Nitrogen	41	mg/lit	50	IS 3025 (Part 34)
12	Arsenic	BDL	mg/lit	0.2	APHA 3111-B
13	Cyanide	BDL	mg/lit	0.2	IS 3025 (Part 27)
14	Vanadium	BDL	mg/lit	0.2	APHA 3111-D
15	Total Chromium (as Cr)	BDL	mg/lit	2	APHA 3111-B
16	Hexavalent Chromium (Cr6+)	BDL	mg/lit	0.1	APHA 3500-C
17	Oil & Grease	0.4	mg/lit	10	APHA 5520-B

Note: 1. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.

2. This Test Report refers only to the sample tested.

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

Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere **Technical Manager**





TEST REPORT

		1 201	ILLI OILI		
Custom	er Name : M/s. Deepak Fertili	sers And Petroo	chemicals Corpo	oration Limited.	
Custom	er Address : Taloja Plant Plot K	-1, MIDC Indust	rial Area, P.O.	Taloja Dist. Raigad 41	0208 Maharashtra
Custom	er Reference: P.O. no. 11000051	18, Dated 07.01	1.2021		
MoEFCC Validity : 16 October 2024			NABL Valid	ity : 19 March 2	022
Sample Type : Treated Waste Water			Sampling D	one By: Netel (India	a) Limited
	Packaging: Plastic Bottle		<u> </u>	antity : 2 Litres	.,
	Sampling : 07.05.2021		Analysis Da		— 13.05.2021
	Received : 10.05.2021		-	orting : 14.05.2021	110 100 100 100 100 100 100 100 100 100
	ng Location: Treated Effluent (ETF	²)	Sample Cod		
Sr. No.	Parameters	Result	Unit	Consent Limits	Method
1	рН	6.7		6.5 - 8.5	APHA 4500(H+)-B
2	Total Dissolved Solids	1148	mg/lit	2100	APHA 2350-C&D
3	Total Suspended Solids	40	mg/lit	100	IS 3025 (Part 17)
4	COD	46	mg/lit	250	APHA 5220-B
5	BOD	25	mg/lit	100	IS 3025 (Part 44)
6	Residual Free Chlorine	<0.1	mg/lit	1	IS 3025 (Part 26)
7	Fluoride	0.6	mg/lit	1.5	APHA 4500(F)-D
8	Nitrate Nitrogen	13.6	mg/lit	20	APHA 4500(NO ₃)-B
9	Phosphate	4.8	mg/lit	5	APHA 4500(P)-C
10	Free Ammonical Nitrogen	0.39	mg/lit	2	IS 3025 (Part 34)
11	Ammonical Nitrogen	37.5	mg/lit	50	IS 3025 (Part 34)
12	Arsenic	BDL	mg/lit	0.2	APHA 3111-B
13	Cyanide	BDL	mg/lit	0.2	IS 3025 (Part 27)
14	Vanadium	BDL	mg/lit	0.2	APHA 3111-D
15	Total Chromium (as Cr)	BDL	mg/lit	2	APHA 3111-B
16	Hexavalent Chromium (Cr6+)	BDL	mg/lit	0.1	APHA 3500-C
17	Oil & Grease	0.3	mg/lit	10	APHA 5520-B

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

Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere Technical Manager





		TEST	REPORT		
Customer Name : M/	's. Deepak Fertilis	sers And Petroc	hemicals Corpo	ration Limited.	
Customer Address : Ta	iloja Plant Plot K-	1, MIDC Industr	ial Area, P.O. T	aloja Dist. Raigad 410	208 Maharashtra
Customer Reference : P.	O. no. 11000051	18, Dated 07.01	.2021		
MoEFCC Validity : 16 C	October 2024		NABL Validi	ty : 19 March 2	022
Sample Type : Trea	ited Waste Water		Sampling D	one By: Netel (India) Limited
Sample Packaging: Plas	tic Bottle		Sample Qua	intity : 2 Litres	
Date of Sampling : 11.0			Analysis Da	te : 14.06.2021	— 17.06.2021
Sample Received : 14.0	6.2021		Date of Rep	orting : 18.06.2021	
Sampling Location: Trea		P) 1	Sample Cod		1/057
Sr. No. Parame	eters	Result	Unit	Consent Limits	Method
1 pH		7.87	-	6.0 - 8.5	APHA 4500(H+)-B
2 Total Dissolved Sol	lids	1295	mg/lit	2100	APHA 2350-C&D
3 Total Suspended S	olids	78	mg/lit	100	IS 3025 (Part 17)
4 COD	1	101	mg/lit	250	APHA 5220-B
5 BOD		36	mg/lit	100	IS 3025 (Part 44)
6 Residual Free Chlo	orine	BDL	mg/lit	1	IS 3025 (Part 26)
7 Fluoride		0.8	mg/lit	1.5	APHA 4500(F)-D
8 Nitrate Nitrogen		13.4	mg/lit	20	APHA 4500(NO ₃)-B
9 Phosphate		3.7	mg/lit	5	APHA 4500(P)-C
10 Free Ammonical Ni	itrogen	1.83	mg/lit	4	IS 3025 (Part 34)
11 Ammonical Nitroge	n	46	mg/lit	50	IS 3025 (Part 34)
12 Arsenic	***	BDL	mg/lit	0.2	APHA 3111-B
13 Cyanide		BDL	mg/lit	0.2	IS 3025 (Part 27)
14 Vanadium	2	BDL	mg/lit	0.2	APHA 3111-D
15 Total Chromium (a	s Cr)	BDL	mg/lit	2	APHA 3111-B
16 Hexavalent Chrom	ium (Cr ⁶⁺)	BDL	mg/lit	0.1	APHA 3500-C
17 Oil & Grease	1	0.4	mg/lit	10	APHA 5520-B

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

A Neterwala Group Company

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere **Technical Manager**

End of Report

CIN: U74999MH2003PLC142228







TEST REPORT

: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited. **Customer Name** Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra Customer Reference ; P.O. no. 1100005118, Dated 07.01.2021 MoEFCC Validity : 16 October 2024 NABL Validity : 19 March 2022 Sampling Done By: Netel (India) Limited : Treated Waste Water Sample Type Sample Packaging: Plastic Bottle Sample Quantity : 2 Litres Date of Sampling: 30.07.2021 Analysis Date : 02.08.2021 — 05.08.2021 Sample Received: 02.08.2021 Date of Reporting: 06.08.2021 Sample Code : NIL/W/07/21/167 Sampling Location: Treated Effluent (ETP) Sr. No. **Parameters** Result Unit **Consent Limits** Method 6.73 6.5 - 8.5 APHA 4500(H+)-B На APHA 2350-C&D 2 Total Dissolved Solids 1298 mg/lit 2100 Total Suspended Solids 76 100 mg/lit IS 3025 (Part 17) 250 APHA 5220-B 4 COD 32 mg/lit 5 BOD 13 100 IS 3025 (Part 44) mg/lit 1 IS 3025 (Part 26) 6 Residual Free Chlorine BDL mg/lit 7 Fluoride 0.9 mg/lit 1.5 APHA 4500(F)-D Nitrate Nirogen 20 APHA 4500(NO₃)-B 8 16.3 mg/lit 9 Phosphate 4.4 5 APHA 4500(P)-C mg/lit Free Ammonical Nitrogen 1.64 2 IS 3025 (Part 34) 10 mg/lit 11 Ammonical Nitrogen 34.3 mg/lit 50 IS 3025 (Part 34) 12 Arsenic BDL mg/lit 0.2 APHA 3111-B 13 Cyanide BDL 0.2 IS 3025 (Part 27) mg/lit 14 Vanadium BDL 0.2 APHA 3111-D mg/lit 2 15 Total Chromium (as Cr) BDL mg/lit APHA 3111-B Hexavalent Chromium (Cr6+) BDL 16 mg/lit 0.1 APHA 3500-C

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2. This Test Report refers only to the sample tested.

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

mg/lit

Verified by:

Oil & Grease

Issued by:

APHA 5520-B

Surekha Jamdar

Dy. Technical Manager

Shraddha Kere **Technical Manager**

10

End of Report



17



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/O/21/2212	T.C. Date:	06/09/2021				
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED. PLOT K – 1, MIDC INDUSRTIAL AREA, TALOJA, A. V. 410 208, DIST. – RAIGAD.						
Letter Ref/Date	2100009371 / 24-08-2021						
Lab Reference No.	GW/O/21/2212	Page No.	1 of 1				
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060				
Sampling Done By	GLPL on 31/08/2021	Sample Received on	01/09/2021				
Sample Submitted by	ample Submitted by GLPL Analysis Pe		01/09/2021 To 06/09/2021				
Sample Description	escription ETP Treated Water Sample, 1 lit in plastic bottle						

ANALYSIS REPORTS:

	Result	Specification Range as per MPCB Limits	Methods
	7.74	6.5 To 8.5	APHA 4500 H ⁺
mg/ltr	49	250	APHA 5220 B
mg/ltr	13	100	IS 3025 (Part 44) : 1993
mg/ltr	37	100	APHA 2540 D
mg/ltr	1832	2100	APHA 2540 C
mg/ltr	0.1	10	APHA 5520 B
Mg/ltr	0.04	5	APHA 4500 P – D
mg/ltr	17.4	50	APHA 4500 NH ₃ A
mg/ltr	0.06	4	APHA 4500 NH ₃ C
mg/ltr	11.2	20	APHA 4500 NO₃ B
mg/ltr	< 0.001	. 10	APHA 4500 F
mg/ltr	28.8	75	APHA 4500 Norg B
	mg/ltr	mg/ltr 49 mg/ltr 13 mg/ltr 37 mg/ltr 1832 mg/ltr 0.1 Mg/ltr 0.04 mg/ltr 17.4 mg/ltr 0.06 mg/ltr 11.2 mg/ltr < 0.001	7.74 6.5 To 8.5 mg/ltr 49 250 mg/ltr 13 100 mg/ltr 37 100 mg/ltr 1832 2100 mg/ltr 0.1 10 Mg/ltr 0.04 5 mg/ltr 17.4 50 mg/ltr 11.2 20 mg/ltr < 0.001 .10 mg/ltr 28.8 75

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

CHECKED BY

Note:

- 1. Results relate only to the sample/s tested, only in case of samples submitted by customer & not drawn by GLPL.
- 2. Test certificate shall not be reproduced except in full, without written approval of the laboratory.
- 3. Samples will be preserved for a period 15 days from the delivery of Test Certificate.
- 4. Customer complaint register is available at laboratory.



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST CERTIFICATE

Doc. No: GLPL/QF/7.8/01

Test Certificate No.	GW/O/21/2516	T.C. Date:	06/10/2021				
Customer Name and Address	M/s. SMARTCHEM TECHNOLOGIES LIMITED. PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.						
Letter Ref/Date	2100009371 / 24-08-2021						
Lab Reference No.	GW/O/21/2516	Page No.	1 of 1				
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060				
Sampling Done By	GLPL on 30/09/2021	Sample Received on	01/10/2021				
Sample Submitted by	GLPL	Analysis Period	01/10/2021 To 06/10/2021				
Sample Description ETP Treated Water Sample, 1 lit in plastic bottle							

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
рН		7.65	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	52	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	14	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	31	100	APHA 2540 D
TDS	mg/ltr	1520	2100	APHA 2540 C
Oil & Grease	mg/ltr	0.1	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	0.06	5	APHA 4500 P – D
Ammonical Nitrogen as N	mg/ltr	15.2	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.08	4	APHA 4500 NH₃ C
Nitrate Nitrogen as N	mg/ltr	10.6	20	APHA 4500 NO₃ B
Fluoride as F	mg/ltr	< 0.001	10	APHA 4500 F
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	30.5	75	APHA 4500 Norg B
		End		

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Secular

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Note:

- 1. Results relate only to the sample/s tested, only in case of samples submitted by customer & not drawn by GLPL.
- 2. Test certificate shall not be reproduced except in full, without written approval of the laboratory.
- 3. Samples will be preserved for a period 15 days from the delivery of Test Certificate.
- 4. Customer complaint register is available at laboratory.

Annexure 3: Ambient Noise Monitoring Reports



Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.

Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra

Customer Reference: P.O. no. 1100005118, Dated 07.01.2021

Instrument Model: Lutron SL-4033-SD (Class 1)Instrument Serial No. : Q640774Date of Sampling: 14.04.2021Date of Calibration: 25.09.2020Date of Reporting: 17.04.2021Next Calibration Due : 24.09.2021

•	0						
			Leq (dBA)				
Sr. No.	Location	Day	MPCB Limit	Night 65.5 53.7 68.4 52.7 65.1 73.7 59.4	MPCB Limit		
1	Main Gate	66.6	75	65.5	70		
2	NPK Gate No. 4	53.6	75	53.7	70		
3	NPK Raw Material Storage Area	70.1	75	68.4	70		
4	NPK Production Unit	54.2	75	52.7	70		
5	Near IPA Gate	65.3	75	65.1	70		
6	Near CFB Cooling Tower	73.8	75	73.7	70		
7	Ammonia Unloading	59.3	75	59.4	70		
8	K-6 Plot (Near Main Gate)	69.0	75	68.7	70		

Note:

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- 2. This Test Report refers only to the sample tested.
- 3. The Complaint Register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by:

Issued by:

Surekha Jamdar

Dy. Technical Manager

Shraddha Kere

Technical Manager





	INOIOL LL ALL INI				
Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Re	eference: P.O. no. 1100005118, Dated 07.0	1.2021			
Instrument Model : Lutron SL-4033-SD (Class 1) Instrument Serial No.: Q640774					
Date of Sam	pling : 05.05.2021	Date of Calibrat	tion : 25.09.2	2020	
Date of Repo	orting : 08.05.2021	Next Calibration	n Due: 24.09.2	2021	
			Leq (c	IBA)	
Sr. No.	Location	Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	66.0	75	66.4	70
2	NPK Gate No. 4	56.2	75	54.4	70
3	NPK Raw Material Storage Area	69.9	75	68.8	70
4	NPK Production Unit	59.2	75	57.8	70
5	Near IPA Gate	66.1	75	65.4	70
6	Near CFB Cooling Tower	69.5	75	67.7	70
7	Ammonia Unloading	60.9	75	59.9	70
8	K-6 Plot (Near Main Gate)	70.9	75	69.8	70

Note:

- 1. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.
- 2. This Test Report refers only to the sample tested.
- 3. The Complaint Register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by:

Issued by:

Surekha Jamdar

Dy. Technical Manager

Shraddha Kere

Technical Manager







Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited. **Customer Address**

: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra

Customer Reference: P.O. no. 1100005118, Dated 07.01.2021

Instrument Model : Lutron SL-4033-SD (Class 1) Instrument Serial No.: Q640774 Date of Calibration Date of Sampling : 09.06.2021 : 25.09.2020 Date of Reporting Next Calibration Due: 24.09.2021 : 12.06.2021

		Leq (dBA)				
Sr. No.	Location	Day	MPCB Limit	Night 67.0 53.0 67.3 54.7 65.2 65.8 58.7	MPCB Limit	
1	Main Gate	68.3	75	67.0	70	
2	NPK Gate No. 4	53.4	75	53.0	70	
3	NPK Raw Material Storage Area	69.0	75	67.3	70	
4	NPK Production Unit	56.2	75	54.7	70	
5	Near IPA Gate	65.9	75	65.2	70	
6	Near CFB Cooling Tower	72.1	75	65.8	70	
7	Ammonia Unloading	58.7	75	58.7	70	
8	K-6 Plot (Near Main Gate)	69.0	75	67.3	70	

Note:

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2. This Test Report refers only to the sample tested.

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

Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

Technical Manager

End of Report



CIN: U74999MH2003PLC142228

Registered office: Liberty Building, 3rd Floor, Sir Vithaldas Thackersey Marg, (New Marine Lines), Mumbai - 400 020.



	NOISE LEVEL MONITORING REPORT					
Customer Na	Customer Name : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.					
Customer Ad	Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra					
Customer Re	ference: P.O. no. 1100005118, Dated 07.01	.2021				
Instrument M	odel : Lutron SL-4033-SD (Class 1)	Instrument Seria	al No.: Q6407	74		
Date of Samp	oling : 30.07.2021	Date of Calibrat	ion : 25.09.2	2020		
Date of Repo	rting : 02.08.2021	Next Calibration	Due: 24.09.2	2021		
			Leq (dBA)			
Sr. No.	Location	Day	MPCB Limit	Night	MPCB Limit	
1	Main Gate	67.0	75	65.7	70	
2	NPK Gate No. 4	53.0	75	51.6	70	
3	NPK Raw Material Storage Area	69.3	75	68.8	70	
4	NPK Production Unit	59.9	75	60.4	70	
5	Near IPA Gate	64.7	75	63.6	70	
6	Near CFB Cooling Tower	69.6	75	64.9	70	
7	Ammonia Unloading	60.7	75	60.1	70	
8	K-6 Plot (Near Main Gate)	67.8	75	67.6	70	

Note:

- 1. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.
- 2. This Test Report refers only to the sample tested.
- 3. The Complaint Register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by: Issued by:

Surekha Jamdar

Dy. Technical Manager

Shraddha Kere Technical Manager





GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST CERTIFICATE

Doc.No: GLPL/QF/7.8/04

Test Certificate No.	GA/21/08/341	T. C. Da	o8/09/2021
Customer Name and Address	M/S. DEEPAK FERTILISERS PLOT K-1, PART-1, K-2, K-3 TALUKA – PANVEL, DIST. –	K-4, K-5 & K-6, MIDC TAL	
P.O. No. / Date .	1100007464 / 24-08-21	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done E	By GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

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

0		NOISE LEV	EL dB (A)
Sr. No.	LOCATION	DAY TIME 11:50 HRS.	NIGHT TIME 22:45 HRS.
01	Near Methanol Gate Area	63.6	58.6
02	Near IPA gate Area	73.6	68.2
03	Near WNA III Area	74.5	69.1
04	NGT – II Area	74.0	69.3
05	Near Utility Area	74.2	69.6
06	Near Time Office Area	61.0	57.4
07	Near Store Area	58.2	56.5
08	Near Acid Tank Area	68.8	58.0
	M.P.C.B. LIMITS	75.0	70.0

End

For GADARK LAB PVT. LTD.

Blite

AUTHORISED SIGNATORY [KAILAS V. CHITALKAR]

Note:

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

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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST CERTIFICATE

Doc.No: GLPL/QF/7.8/04

Test Certificate No.	GA/21/09/472 T. C. Date 06/			06/10/2021
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.			ORATION LTD.
P.O. No. / Date .	1100007464 / 24-08-21	Pag	e No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measureme	ent Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	27/09/2021
Test Method	GLPL/SOP/AA/17:2014

Sr.	(V)) o \	NOISE LEVEL dB (A	
No.	LOCATION	DAY TIME 12:05 HRS.	NIGHT TIME 22:40 HRS.
01	Near Methanol Gate Area	61.3	57.0
02	Near IPA gate Area	72.9	64.9
03	Near WNA III Area	73.8	68.2
04	Near GT – II Area	73.9	68.7
05	Near Utility Area	74.0	68.0
06	Near Time Office Area	61.6	58.2
07	Near Store Area	57.4	55.4
08	Near Acid Tank Area	69.2	57.5
	M.P.C.B. LIMITS	75.0	70.0

End

For GADARK LAB PVT. LTD.

Fleeh

AUTHORISED SIGNATORY [KAILAS V. CHITALKAR]

Note:

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

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Annexure 4: CSR Report





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

VISION

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

MISSION

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

- To identify the potential of and gaps in the economic and social support systems, so as to help develop a sustained, self-reliant society with special emphasis on the youth, women & marginal farmers
- To undertake vocational skill and soft skill development initiatives enabling sustained and respectable employment opportunities for leading a self-reliant life
- To facilitate income generation programs of individuals / groups through alignment of skill development with self-employment opportunities
- To provide marketing and financial support to help enhance sustained income generation initiatives
- 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 being implemented in 47 villages and 19 hamlets and urban area of Pune.

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

Wadi Development Horticulture Plantation (Mango) Promotion of Vegetables crops Promotion of Floriculture Health • Farmers Capacity Building **Dairy Development** Cattle Induction Door-step health services for cattle Artificial Insemination Fodder Development Vaccination • Farmers Capacity Building Vocational Skill Development Programme Diploma in opthomatry Tailoring Health and Education • Mobile Clinic Catarct Operations Activities During COVID19

Wadi Project

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

- To provide secondary sustainable source of income
- To increase the asset base of the tribals & other

Livelihood Enhancement Through Entrepreneurship Development

• Support for Tools and Equipment for Entrepreneurship

- To empower of women through economic and social development
- To improve the health status of the community

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

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

Objectives are highlighted below:

- O Mobilisation of community through project promotional meetings and exposure. O Selection of beneficiaries and land
- O 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
- Capacity building of staff and beneficiaries
- **O** 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
 - \bullet General Health Check-up camps for Women and children ${\bf O}$ Women Empowerment:
 - Training to existing women's groups
 - Wadi on women's name
 - Exposure Major Achievements:

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



Distribution of mango graft



Distribution of Plant Nutrients



Distribution of Plant Protection



Distribution of Vegetable seed



Demonstration of Plant Nutrition application and after care of Mango Plants













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

Project: Wadi Project Vegetable Plot

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

Raigad

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

Land: 1 Acer



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

Dairy Development Project

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

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





Vocational Skill Development:

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

- O Life Skills and Values
- O Spoken English
- Exposure visits



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

Major Achievements:

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

Aarogyam and Dnyanum project:

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



Sr. N.	Major Activity	Achievement
Aa	rogyam Project	
	Mobile Clinic	
A	Doorstep Health Services with free medicine	6197
A	Health Awareness	0197
	Referral Services	
В	Cataract Surgery	21
C	Activities During Outbreak of Pandemic COCID-19	
01	Donation of Ambulance	03 nos.
02	Installation of PSA Medical Oxygen Plant	03 nos.
03	Donation of Oxygen Concentrator	25 nos.
04	Distribution of COVID Kit at Rahiyad Village Dehej	500 Families
05	Distribution of COVID Kit at Nearby Villages of Taloja Plant	2800 Families
06	Distribution of 1000 lit hand to various Govt. Offices.	110lit
Gy	anam Project	
2	Support for Science Lab. Equipment, Printer to Chindran High School.	01
3	Digital Class	10





Livelihood Enhancement through Entrepreneurship Development (LEED)

Sr. No.	Major Activities	Plan	Achi.	Remarks	
Suppo	rt to Individuals towards	Enhanci	ng Entr	epreneurship	
1	upport to Individuals towards nhancing Entrepreneurship 10 10 Aspirant identified and purchase order has bee to the vendor for procurement of material for 13th as				
		FA there			
			PA		
4					
		1 10/	ALC: UNKNOWN		

दीपक फर्टिलायझर्सकडून मनपाला ॲम्बुलन्स

आमदार बाळाराम पाटील यांच्या उपस्थितीत लोकार्पण

ाराजन्त टाइम्स । पन्नेता । रोकः परिताण्यमं आणि त्याप्यती संग्रह अलगारी रेकान मर्वदेवन परिताण्यापीत युग्या रिशोक ४ अणिन रोका परिताण वर्षनी युग्या रिशोक ४ अणिन रोका परिताण अस्ती, सोका त्रापक मन्द्रार संग्राचे पेट रेग्यान आसी, सोका त्रापक मन्द्रार संग्राचे बहु देश्यति जाता, काकण तासक माद्रार प्रधान महारक्ष विधान चरिपरेत प्रतिनिधित्व करायाँ, आगदा बाळापा गाटील केच्या प्रमुख व्यक्तिमतीत रम्पवातिकेचे शोकर्णन मंगर क्षाले, वानेकी दोनक परिलाण्डामं ने मुद्राकत प्रकान

पानवा दाक परितायकां ने पुरावस वेका क्षेत्रम परारागापतिकेता रूप्यादिक प्रदान क्षेत्रपावदात आगारा पानदेत यांनी कंपनी व्यवस्थापति आगार पानदेत ने प्रणाति की रूप्याद्यापति आगार पानदेत ने प्रणाति की कांग्रेस विधान्या प्रदुषीय पाने दुसरी कांग्रेस विधान्या प्रत्योग पाने दुसरी कांग्रेस विधान



फॉल्लाव्हार्स ज्या एव आर हेड वयश्री काटकर प्राणाच्या की आगल्या कंपनीने याचूर्वी प्रचेत कान्यन होत. अनुक नगरा रंगामुब प्रमिन्द्री पार्च्यामी नेवार पर अगर रेड वर्षकी कारकर अनुक नगरा रंगामुब प्रमिन्द्री पार्च्यामी कार्यामा प्रमाने की दौरक परितापदार्थ आणि एक्समा प्रमाने की दौरक परितापदार्थ आणि रंगान्य करोजन पार्च नेवार मामापारिकारा प्रमानकार पार्च्याम् देव कार्याम केले आहे. अनुकार अन्य कंपमानी बार्च पार्चने आहे.

अनुसार अन्य स्थानाथा कर्षा भावता आत् । सीम्प्राध्या क्षेत्राचे महानाथारिकेस्य महान्य व्यवस्था हरवा हरवा हरवा अन्य स्थानीय बता अस्त्राम महानाथारिकेस्या नेपन्नी कोनाया है पाइना दशकर तमेच प्रेपक महितायाओं मोदीचे हार्योव भावता आहे त्यांचे अस्पाद करून व्यवस्थारिकायों आयों गोव्यदित स्थितिक हुन् सहस्रमें केरणाता है जाना फारादारी हैं हर्षा केर्स क्षेत्रे होते. महामारी ज्या अस्तायहामा मार्कामारी

कावरी आहरण विभाग केंद्र असल्या कारणने दुर्गम प्रामेण विभागत आमच्या किल्या दशकाने सगरिकांन अल्या मीलागी रणकेंगा प्रदान केंत्री. रोज्य परिलायक्षातं च्या माध्यमासून कोरोना विधाण् प्रतिबंध वासाडी आगती कार्यताच्या वाटा विश्वान प्रतिबंध वासाडी आगती कार्यताच्या होतो व वेचून पूढे देखील राह् अन्य मला विश्वान आहे.

डीएफपीसीएलतर्फे महासाथीचा मुकाबला करण्यासाठी साह्य सुरूच



डीएफपीसीएल तर्फे पनवेल महानगरपालिकेला रुग्णवाहिका तर झोपडपट्टी भागांत धान्य पाकिटांचे वितरण

चन्नेता, दि.११ (वार्त्रात): एन्यादील कोग्रेस संवर्ध विक्री विस्ताप्त अर्थान ती कोग्रेस्सी पांचल क्षित्री तार विस्ताप्त कार्याच्या कार्यास त्याच्या स्वर्धक अर्थाच्या वार्यास्त्री कार्यास्त्री कर्याच्या कार्यास्त्री कर्याच्या क्षेत्री कर्याच्या कर्याच्या क्षेत्र कर्याच्या क्षेत्र करियास्त्र क्षेत्र क्षेत्रीय क्ष्रियास्त्र क्ष्रियास्त्र क्ष्रियास्त्र क्ष्रियास्त्र क्ष्रियास्त्र क्ष्रियास्त्र क्ष्रियास्त्र क्ष्रियास्त्र क्ष्रीयस्त्र विष्णवस्त्र स्त्रीयस्त्र क्ष्रीयस्त्र क्ष्रीयस्त्र क्ष्रीयस्त्र क्ष्रीयस्त्र क्ष्रीयस्त्र क्ष्रीयस्त्र क्ष्रीयस्त्र क्ष्रीयस्त्र क्ष्रीयस्त्र क्ष्रियस्ति क्ष्रियस्ति क्ष्रियस्त्र क्ष्रीयस्त्र क्ष्रियस्त्र क्ष्रीयस्त्र क्ष्रीयस्त्र क्ष्रीयस्त्र क्ष्रीयस्ति क्ष्रियस्त्र क्ष्रीयस्ति क्ष्रियस्त्र क्ष्रियस्ति क्ष्र

हैं कोरी समार्थ वेंब्याव उद्योजन कर पहुंच को ने बंदर वेंब्यावी उच्याद उपयानकी विकीत प्रीकृत प्रमुख बंदर वेंब्यावी उच्याद उपयानकी विकीत प्रीकृत प्रमुख ब्यायवीक समार्थ की प्रमुख ब्यायवीक समार्थ की प्रमुख बंदि उपयान प्रमुख की जाता भी अपने करिया की प्रमुख बंदि उपयान भी अपने करिया की प्रमुख की उपयान भी अपने करिया की प्रमुख की प्रमुख भी अपने करिया की प्रमुख बंदि अपने की प्रमुख की प्रमुख बंदि अपने की प्रमुख बंदि की प्रमुख बंदि अपने की प्रमुख बंदि अ



दीपक फर्टिलाइजर्स एंड पेट्रोकेमिकल्स FPCL renews its ongoing support in the fight against the pandemic to essential tiems to underprivileged



नवी मुंबई। दीपक फर्टिलाइजर्स एंड पेट्रोकेमिकल्स कॉपोरेंशन लिमिटेड भारत में रसायनों एवं उर्वरकों का उत्पादन करने वाली विश्वसनीय कंपनियों में से एक है। औद्योगिक रसायनों,

फसलों के लिए पोषक-तत्वों के उत्पादन और खनन रसावनों के निर्माण में बड़े पैमाने पर मौजूदगी दर्ज करने वाली यह कंपनी कृषि, फार्मास्यूटिकल्स, खनन, बुनियादी ढांचे, स्वास्थ्य और स्वच्छता जैसे अर्थव्यवस्था के महत्वपूर्ण क्षेत्रों में अपना सहयोग दे रही है। कोविड-19 के खिलाफ देश के संघर्ष में निरंतर अपना वोगदान दे रहा है। कंपनी इस महामारी के विनाशकारी प्रभाव को कम करने के लिए ईशान्या फाउंडेशन ग्र सीएसआर की दिशा में काम करने वाली अपनी एजेंसी के माध्यम से सरकार और संबंधित एजेंसियों के साथ कंधे से कंधा मिलाकर काम कर रही है। ऐसे कठिन समय में समुदाव की मदद करने और नागरिक प्राधिकरणों की सहायता करने के अपने निरंतर प्रवासों के तहत, कंपनी ने हाल ही में पनवेल नगर निगम को एक एम्बुलेंस दान किया है, जो आपातकालीन चिकित्सा उपकरणों से लैस है। हस्तांतरण समारोह के दौरान कुछ गणमान्य व्यक्तियों की उपस्थिति में यह वाहन गणेश देशमुख, आयुक्त, पनवेल नगर निगम को सौंपा गया। इस अवसर पर अपने विचार व्यक्त करते हुए DFPCL के युनिट हेंड, राधेश्याम सिंह ने कहा, एक जिम्मेदार कॉपोरेंट नागरिक होने के नाते, हमने रोजगार, शिक्षा एवं स्वास्थ्य के क्षेत्रों में विभिन्न नागरिक होने के नात, हमन राजगार, शिक्षा एव स्वास्थ्य ज कुना निर्माण के कार्यक्र कि employe ton description of the second of the superscription of the second of the superscription of the second of the superscription of the second of the seco इस घड़ी में निगम की स्वास्थ्य सेवाओं को मजबूती प्रदान करेगा।





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2	IA/MH/IND/20035/2006	1126202164937753IPAHalfYearlyECComplianceApril2021-September2021.pdf	Compliance report summitted for the period of April to September 2021	26/11/2021	X



Compliance Letter/Report

"Pro Active and Responsive facilitation by Interactive, Virtuous and Environmental Singlewindow Hub"

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