DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED

DFPCL-K1/EHS/Env/2020-21/25 27-Nov- 2020

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-2020 to September -2020**.

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	
	a.	Address of Concerned Project Chief Engineer (with pin code & Telephone/ telex/ fax numbers	Mr. Deepak Pande (Sr.GM-EHS), M/s Deepak Fertilisers & Petrochemicals Corporation Ltd. Plot No. K-1, MIDC Industrial area, Taloja, District Raigad – 410208, Maharashtra. Phone: - 022-50684221, 9920942161
	b.	Address of Executive Project: Engineer/Manager (with pincode/ Fax numbers)	Same as above
6		Salient features	
	a.	of the project	Annexure-A
	b.	of the environmental management plans	Annexure-B
7		Break up of the project area	
	a.	submergence area forest & non forest	NA, (MIDC Land)
	b.	Others	NA
8		Break up of the project affected Population with enumeration of Those losing houses/dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan	NA, (MIDC Land)
	a.	SC, ST/Adivasis	NA, (MIDC Land)
	b.	Others (Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey)	NA
9		Financial details.	
	a.	Project cost as originally planned and subsequent revised estimates and the year of price reference	153.7 Crores
	b	Allocation made for environmental management plans with item wise and year wise Break-up.	**Yes.** **Year 2019-20 for Plot K-1 to K-8.** 1)₹s. 5 lakhs forInstallation of Weather Monitoring Station 2)₹s. 41 lakhs for Plantation and Maintenance of Tree plantation 3)₹s. 40 lakhs for Adequacy study for ETP and APCD 4)₹s. 27 lakhs for ETP1 improvements 5)₹s. 8 lakhs for AMC for CEMS 6)₹s. 0.5 lakhs for AMC for AAQMS 7)₹s. 0.7 lakhs AMC for PM Analyzer 8)₹s. 1.5 lakhs for Spare for CFB CEMS Analyser 9)₹s. 13 lakhs for Spare of CEMS 10)₹s. 16 lakhs for Spare for AAQMS
	c.	Benefit cost ratio/Internal rate of Return and the year of assessment	-
	d.	Whether (c) includes the Cost of environmental management as shown in the above.	Yes
	e.	Actual expenditure incurred on the project so far.	-
	f.	Actual expenditure incurred on the environmental management plans so far	-
10		Forest land requirement	
	a.	The status of approval for diversion of forest land for non-forestry use	NA, (MIDC Land)
	b	The status of compensatory afforestation program in the light of actual field experience so far	NA, (MIDC Land)
11		The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information	NA, (MIDC Land)
12		Status of construction	
	a.	Date of commencement (Actual and/or planned)	Year 2005
	b.	Date of completion (Actual and/of planned)	Year 2006
13		Reasons for the delay if the Project is yet to start	NA
14		Dates of site visits	
	a.	The dates on which the project was monitored by the Regional Office on previous Occasions, if any	NA
	b.	Date of site visit for this monitoring report	NA
15		Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits)	NA

Executive Summary

1.0 Introduction

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

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

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

1.1 Need For The Project

- The IPA market in the country has immense potential and the consumption was estimated to be 62,000 MTPA in year 2002 – 2003 and the estimated consumption in the year 2005 would be 72,500 MTPA.

- IPA is extensively used by pharmaceutical companies, agrochemicals industry and also in manufacturing of inks and other components required for printing.

- The company will target the huge IPA market in India, which is at present 100 per cent dependent on imports as there are no domestic manufacturers.

- IPA consumption in the country is growing by around seven percent annually.

1.2 Need For EIA Studies

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

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

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

1.3 The Surroundings

The industrial area is well connected to the state and national road network The state highway SH-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.

$$CH_3CH=CH_2 + H_2O \xrightarrow{\text{Catalyst}} (CH_3)_2CHOH$$

2.1 Resources required

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

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

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

3.0 Baseline

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

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

3.1 Ambient Air Quality

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

- The 98th percentile of SPM levels are in the range of 58.2 TO 149.6 µg/m^3
- The 98th percentile of RPM levels are in the range of 20.2 to 50.1 µg/m^3
- The 98th percentile of SO_2 levels were in the range of 7.5 to 11.3 µg/m^3
- The 98th percentile of NO_X levels were in the range of 12.8 to 19.3 µg/m^3

The 24 hourly average values of SPM, RPM, SO_2 & NO_x were compared with the national ambient air quality standards and it was found that all the sampling stations recorded values lower than the applicable limit for residential areas.

3.2 Noise Environment

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

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

3.3 Water Quality

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

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

Ground water

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

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

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

Surface water

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

3.4 Soil Quality

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

The pH of the soil is an important property; plants cannot grow in low and high pH value soils. Most of the essential nutrients like N, P, K, Cl and SO_4 are available for plant at the neutral pH except for Fe, Mn and Al which are available at low pH range. The pH values in the study area are varying from 6.81 to 7.72 showing neutral only.

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

4.0 Identification Of Impacts

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

4.1 Construction Related Impacts

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

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

4.2 Operation Related Impacts

Air Environment

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

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

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

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

Stack and Emission Details

Stack No	Attached to	Height (m)	Dia. (m)	Velocity (m/s)	Volume NM^3/hr	Temp. ° K	SPM g/s	SO2 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 SO_2 in SW direction

Pollutant	Baseline Max. Value - ($\mu g/m^3$)	Predicted Max. contribution to GLC's -($\mu g/m^3$)	Predicted future AAQ concentration - ($\mu g/m^3$)
Particulate Matter	156	0.281	156.28
Sulphur dioxide (SO_2)	12	19.70	31.70

(24 hrly average)

Water Environment

The entire wastewater generated 667 m^3/day is treated in the existing effluent treatment plant before sending to Common CETP (used as dilution water) for further disposal. However, to meet the new demands, slight modifications are proposed in the existing ETP. The effluents after treatment will be routed to Taloja Common effluent Treatment plant Co-op Society ltd for final disposal. Hence impact on ground water quality is not envisaged.

Land Environment

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

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

EXECUTIVE SUMMARY

1. Introduction

The Deepak Group of Industries came in to existence during 1970's when Mr. C.K. Mehta set up Deepak Nitrite Ltd. In 1983, Deepak Fertilizers and Petrochemicals Corporation Limited (DFPCL) started commercial production of ammonia (in technical collaboration with Fish International Engineers (USA), using natural gas as feed stock. This marked the fulfillment of a need for lateral integration into the world of basic building block chemicals, premium fertilizers and petrochemicals. At that time, this was India's only merchant ammonia manufacturer. The International Finance Corporation initially supported this venture of Deepak group in the form of equity participation in DFPCL.

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

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

DFPCL has a chemical storage terminal at Jawaharlal Nehru Port Trust (JNPT) to provide support to its logistics management system and ensure a window to the world trade in chemicals. It is in the process of adding new storage facilities for Ammonia, Methanol and other products. The company also leases port storage capacities at Bombay Port Trust and Visakhapatnam. In year 2012-13, DFPCL clocked Turnover of Rs. 2500 Crore.

Now, DFPCL proposed the expansion of complex fertiliser unit from 3,24,000 MTPA of Single Grades of ANP to 6,00,000 MTPA of Multiple Grades NPK Fertilizers at its Taloja facilities in Notified Industrial Estate of MIDC, Maharashtra.

2. Project Description

The salient features of the proposed project are given in the **Table 1.**

Table 1: Salient Features of the Project

S.No.	Items	Details
1.	Name of Project	Expansion of NPK fertilizer manufacturing capacity with the purpose of manufacturing multiple grades of NPK
2.	Name of Organization	Deepak Fertilisers & Petrochemicals Corporation

S.No.	Items	Details
		Limited.
3.	Project Location & Land acquired	Plot no K1 to K5, MIDC, Taloja, Dist. Raigad. Being a Brown field expansion, no additional land acquisition is required
4.	Total DFPCL Plant Area	96 Acres (Plant Area) 16 Acres (Green cover)
5.	Area allotted for the proposed expansion	10000 m^2. No additional land requirement as plant shall be built in the area occupied by godowns presently.
6.	Nearby features	DFPCL complex is located in MIDC, Chemical Zone Nearest Highways : 5 Kms Railways : 3.5 Kms Airport : 45 Kms Port : Mumbai, 40 kms Nearest City : Panvel 15 Kms Nearest Forest – No Forest area Sensitive place – Nil Historical place - Nil
7.	Power requirement & source	DFPCL has its gas based power plant of 17.9 MW. 10 MW is taken from MSEDCL .Additional 5 MW requirement for proposed expansion shall be taken from MSEDCL. Approval for additional power is received from MSETCL.
8.	Power backup (DG Sets)	Construction phase: Power required for construction shall be supplied from internal power source. Operation phase : 500 KVA emergency back up DG for lighting purpose.
9.	ETP Facility	ETP Capacity : 5000 M^3/Day(Includes Industrial & Domestic) Quantity of effluent treated in ETP : 3800 M^3/Day
10.	End Product	Multiple grades of NPK fertilizer
11.	Annual Production (MT)	Present : 3,24,900 MTPA (NP) After Expansion : 6,00,000 MTPA (NPK)
12.	Proposed facilities	Main Process plant, new bagging plant Raw Material Storage and Handling facilities, Waste Water Recycle unit , 100 KV sub-station.
13.	Annual stream hours	6600 Hrs
14.	Manpower requirement	No additional manpower. Requirement shall be met from within existing manpower.
15.	Project Time schedule	126 Weeks
16.	Indicative Annual Reqmt. of Raw material	
	A. Ammonia	<= 150 MTPD
	B. Phosphoric acid	<= 325 MTPD

S.No.	Items	Details
	C. Clay (filler)	<= 150 MTPD
	D. Zinc sulphate	<= 15 MTPD
	E. Borax	<= 15MTPD
	F. MOP/K_2SO_4	<= 550MTPD
	G. Sulphuric acid	<= 10 MTPD
17.	Raw Water	Total water required 550 m^3/day. As part of this project DFPCL shall install water recycle unit to treat present effluent. Reject from this unit shall be used in the process. No additional fresh water requirement is envisaged for the complex due to this project.
18.	Project capital cost (Rs. Crores)	360.0
19.	Capital cost (Rs. Crores) for environmental protection measures	Approx 20.0 water recycle unit. Approx 20.0 process scrubbers.
20.	Proposed Air Pollution Control measures	A wet scrubber unit shall be integrated with main process to meet environment norms of dust & ammonia.
21.	Solid / hazardous waste management & waste	No process solid waste generation envisaged from the expansion project. Machine Lube oil waste shall be generated which is already consented. No increase in consented quantity envisaged.

A typical composition/specification of all the raw material required is listed as below:

Ammonia

State :	Liquid
NH_3 Content :	99+/- 0.5% w/w min
H_2O Content :	0.5 % w/w max
Oil Content :	10 ppm max

Phosphoric Acid

P_2O_5 :	52-54% Wt
H_2SO_4 (as SO_4) :	0.5 to 2.5%
CaO :	0.05 to 0.25 % wt
Al_2O_3 :	0.3 to 1.5% wt
Fe_2O_3	0.2 to 1.5% wt
R_2O_3 (Al_2O_3+Fe_2O_3) :	3.0% Max
F :	0.3 to 0.7 % wt
MgO :	0.4 to 1.2 % wt
Cl :	250 ppm

running North-South direction. The eastern horizon is marked by Sahyadri hills. In the western direction a steep slope dropping from 869 m at Raigad to 3 m above M.S.L.

3.2 Geology

The entire district is covered by basaltic lava flows known as "Deccan Traps". These Deccan Traps are capped by laterites. The Recent, Sub-Recent and Pleistocene laterites are observed within the study area.

3.3 Hydrology

The drainage system of the district may be divided in to three groups as follows:

Northern region	: Drained by river Panvel, Ulhas, Patalganga and Amba.
Central region	: Drained by Kundalika and Mandad
South region	: Savitri and its tributaries

The peculiarities of the drainage system of the district are that all rivers are Westerly following. A small river (Kasardi River), which is non-perennial in nature, flow along the Taloja Industrial Area and finally drains into the Arabian Sea.

3.4 Hydrogeology

The requirements of water for irrigation and the domestic purposes, are fulfilled by the groundwater. The groundwater occurs in weathered mantle, fractures and joints in Deccan trap. The depth of wells ranges between 3.50 to 8.50 m bgl. The surface water level in winter ranges between 1 to 3.50 m and in summer ranges between 4 to 8.00 m. Majority of the wells goes dry in the summer season due to poor productive aquifer. The yield of the wells tapping in the trap is poor to moderate. Wells are mainly used for seasonal crops. The depth of the wells ranges from 3.50 to 7.00 m bgl.

3.5 Soil Quality

The texture of the soil was found to be sandy clay and loam respectively. The pH of the soil samples was in the range of 6.8 to 7.4, which show that the soil is near neutral in nature. The available Sodium, Calcium and Potassium, varied from 20 to 836 mg/g, 98 to 257 mg/g and 11 to 87 mg/g respectively, which signify that the soil has significant nutrient value. The Sodium Adsorption Ratio (SAR) is less than 5.6 for all the soil samples, hence, the soil is non-saline in nature.

3.6 Land Use Land Cover

The land use land cover map for the study area was prepared by processing LANDSAT TM satellite imagery with 30 × 30 m resolution, March 2013

The Study Area is covered by 38.5% of built-up in which industries are in majority. Next to built-up area, agricultural land and shrub land which covers 20.1% and 7.5% of area respectively. The study area consist of 8.2% water bodies and it includes

major rivers like Kasardi River and Taloje river and it drains out to Arabian Sea. Overall 14.4 % of barren land is present in the study area; it also includes bare exposed rock in mountainous area. The elevated hilly area consists of 11.3% of Forest.

3.7 Water Quality

The Surface Water Monitoring was conducted for studying the various parameters in three different locations within the study area, namely Kasardi River, Valap Gaon and New Panvel. The pH range varies from 7.0 to 7.2 and all other parameters are well within the limits. Hence, the water is devoid of any pollution.

The ground water quality monitoring was carried out to study the various physic-chemical characteristics of water in six different locations within the study area, namely Pale Bhudrug, Valap Gaon, Taloje Majkur, New Panvel, Existing Plant and Temboda Village. The pH range varies from 6.5 to 7.7 and TDS value varies from 253 to 360 mg/l. All parameters were found to be within the drinking water standards (IS 10500-1991). Hence, the ground water is not polluted.

3.8 Climate of Taloja

The climate of Taloja is typical of that on the west coast of India, with plentiful and regular seasonable rainfall, oppressive weather in the hot months and high humidifies throughout the year. The summer season from March to May is followed by the south-west monsoon season from June to September. October and November form the post-monsoon or the retreating monsoon season. The period from January to March is the cold season. The weather of Raigad is influenced by the proximity to seaside.

The analysis of the average wind pattern (during winter season January to March 2013) shows predominant winds blowing from SW and SE. The calm wind (wind speed < 0.5 m/s) conditions prevailed for 2.23 % of the total time.

3.9 Ambient Air Quality

Six sampling stations were chosen for monitoring of ambient air quality within the study area. These were within 10 km from proposed expansion locations. Three of the locations were situated in the predominant wind direction (South West and South East) as per the Windrose.

The air quality parameters like PM10, PM2.5, SO2, NOX, CO, NH3, VOC and HC are monitored out of which PM10, PM2.5, SO2, NOX, CO and NH3 are listed in the NAAQ standard 2009 and are found to be within the permissible limits of prescribed standards. The 24-hourly average PM10 level varied between 39.05 µg/m3 to 48.25 µg/m3. The 24-hourly average PM2.5 level varied between 7.81 µg/m3 to 9.65 µg/m3. The mean of 24-hourly average values of SO2 over the study area was varying between 3.1 µg/m3 to 4.15 µg/m3. The mean of 24-hourly NOx level over the entire study area was varying between 18.85 µg/m3 to 22.85 µg/m3. Air samples for Carbon

Monoxide, Volatile Organic Carbon and Ammonia were collected from six different sites within the study area and details result is given in the report.

3.10 Noise

Ambient noise monitoring was conducted to assess the background noise levels in the study area. Six locations within the study were selected for the measurement of ambient noise levels. Noise monitoring was carried out on a 24-hour basis to assess the baseline noise-levels and to evaluate the impact.

The values of noise level, which are recorded lies between 50.32-70.04 dB (A) at day time and 39.75-58.94 (A) at night time. The noise level in the daytime as well as in night time were found to be within the permissible limit although the noise levels at N1, N2 are slightly high in the day & night time because of the industrial activities taking place in the area. The day equivalent and night equivalent values observed for all the locations are within the noise standards specified by CPCB.

3.11 Biological Environment

The list of flora and fauna present in the project area are given in **Table 2** and **3**.

Table 2: Comprehensive List of Plant Species

S. No.	Scientific Name	Local Name
Tree		
1.	*Azadirachta indica*	Neem
2.	*Neolamarckia cadamba*	Kadam
3.	*Cocos nucifera*	Narial
4.	*Santalum album*	Chandan
5.	*Terminalia arjuna*	Arjun
6.	*Polyalthia pendula*	Ashoka
7.	*Tectona grandis*	Sagun
8.	*Terminalia catappa*	Badam
9.	*Ficus religiosa*	Peepal
10.	*Mangifera indica*	Aam
11.	*Syzygium cumini*	Jamun
12.	*Tectona grandis*	Sagun
13.	*Artocarpus heterophyllus*	Jackfruit
14.	*Acacia arabica*	Babul
15.	*Zizyphus jujuba*	Ber
16.	*Psidium sp.*	Guava
17.	*Acacia arabica*	Bakul
21.	*Aegle marmelos*	Bel
22.	*Acacia catechu*	Khair
Shrubs		
1.	*Sida cordifolia*	Bala
2	*Macaranga peltata*	Macaranga

Environment Clearance for IPA (J-11011/218/2004-IA II(I) dated 24.02.2006), MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110 003.		
SN	**Specific Conditions**	**Status of compliance as on 30/09/2020**
i)	The gaseous emissions (SO_2, NOx, NH_3 & HCl) and particulate matter from various process units shall confirm to the standards prescribed by authority from time to time. At no time the emission levels shall go beyond the stipulated standards. The Stack height shall be as per CPCB guidelines. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.Further, the company shall interlock the production system with the pollution control devices.	There is no process stack in IPA emitting any gaseous emissions (SOx, NOx, NH3, HCl & 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)	AAQ monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentrations are anticipated in consultation with the MPCB.	Three continuous monitoring AAQM stations are installed and connected to MPCB portal and operated continuously.
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 600 m3/day thus meeting requirements of recycling 500 m3/day and 100 m3/day Treated effluent. Treated effluent of 100 m3/day is 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)**

SN	Specific Conditions	Status of compliance as on 30/09/2020
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.
vii)	The solid waste generated in the form ETP sludge shall be stored in HDPE lined secured landfill at the site. Spent catalyst and used oil shall be sold to authorized re-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.
viii)	The project authorities shall strictly comply with the rules and guidelines under MSIHC Rules, 1989 as amended in October, 1994 and January 2000 and HWMH Rules, 2003 as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	All related provisions of MSIHCR-1989 and HWMHR-2003, with their amendments are complied with. Authorization through CTO, valid till 31/03/2021, is obtained from MPCB for collection, treatment, storage and disposal of hazardous waste.
ix)	Company shall develop surface/roof top rain water harvesting structures to harvest runoff water for recharge of ground water.	Rain water harvesting system is provided at WNA 3 & 4 plants.
x)	Green belt shall be provided in at least 25% of the plant area to mitigate the effects of fugitive emission all around the plant. Development of green belt shall be as per CPCB guidelines.	Complied with. Around 31 % of plot area is developed as Green belt. Addtional MIDC plot next to our premises is being aquired from MIDC to develop green belt which will meet the requirment of 33% green blet. In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhavdi Village, near Dombivali, ~ 12-15 kms away from our site.
xi)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories act.	Medical examination of all the workers is done once in a six month as per the factories act and records are maintained.
SN	**General Conditions**	**Status of compliance as on 30/09/2020**
i)	Project authorities shall strictly adhere to the stipulations made by the MPCB	Complied.
ii)	At no time the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be put out of operation and shall not be restarted until the desired efficiency has been achieved.	Same as specific condition No. 1.

SN	General Conditions	Status of compliance as on 30/09/2020
iii)	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance, a fresh reference shall be made to the ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied
iv)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EP Act, 1986, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Acoustic enclosures have been provided to DG sets. Periodic noise monitoring is done by MOEF approved 3rd party laboratory at eight different locations and noise level is within the standards prescribed under EP Act,1986, Rules, 1989. **(Annexure - 3)**
v)	The Project Proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.	Environment protection measures and recommendations given in EIA are complied with.
vi)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry-out the Environmental Management and Monitoring functions.	A separate Environmental Management Cell equipped with required facilities is set up.
vii)	The Project authorities shall earmark separate funds of Rs 25.80 lakhs to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Noted
viii)	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**)

SN	General Conditions	Status of compliance as on 30/09/2020
ix)	The implementation of the project vis-a-vis environmental action plan shall be monitored by the Ministry's Regional Office at Bhopal / MPCB / CPCB. A Six monthly compliance status report shall be submitted to monitoring agencies.	Six monthly compliance reports are being sent to Regional Office of MOEF/MPCB/CPCB. Last report was sent on 29th May 2020. Copy of the same posted on the company's web-site.
x)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the letters are available with the MPCB and may also be seen at website of the Ministry at http:// envfor.nic.in. This shall be advertised within seven days from date of issue of the clearance letter at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and the copy of the same shall be forwarded to ministry's regional office at Bhopal.	Complied with
xi)	The project authorities shall inform the Regional Office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied with
xii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xiii)	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted
xiv)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Environment (Protection) Act, 1986, Hazardous Wates (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted

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

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
12.06.2020	13.06.2020	13.06.2020	16.06.2020	16.06.2020

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: WNA - 1 Process	**Stack Diameter**	: 953 mm
Sampling Location	: WNA - 1 Stack	**Sample Code**	: NIL/ST/06/20/001

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	61.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.03	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	4632	---
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm^3	3	184.0	---
			ppm	---	331.1	---
			kg/day	---	20.455	---
			kg/ton of WNA	---	0.0766	3
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	18.60	---
			ppm	---	12.93	---
			kg/hr	---	0.0599	3

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
12.06.2020	13.06.2020	13.06.2020	16.06.2020	16.06.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: WNA - 2 Process	Stack Diameter	: 953 mm
Sampling Location	: WNA - 2 Stack	Sample Code	: NIL/ST/06/20/002

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	60.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.07	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	4738	---
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm^3	3	193.0	---
			ppm	---	347.3	---
			kg/day	---	21.946	---
			kg/ton of WNA	---	0.0746	3
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	22.00	---
			ppm	---	15.30	---
			kg/hr	---	0.0725	3

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
12.06.2020	13.06.2020	13.06.2020	16.06.2020	16.06.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: WNA - 4 Process	Stack Diameter	: 953 mm
Sampling Location	: WNA - 4 Stack	Sample Code	: NIL/ST/06/20/003

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	130.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.16	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	4085	---
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm^3	3	210.0	---
			ppm	---	377.9	---
			kg/day	---	20.588	---
			kg/ton of WNA	---	0.0458	3
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	16.80	---
			ppm	---	11.68	---
			kg/hr	---	0.0477	3

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Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
12.06.2020	13.06.2020	13.06.2020	16.06.2020	16.06.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: CNA-1 Process	Stack Diameter	: 75 mm
Sampling Location	: CNA-1	Sample Code	: NIL/ST/06/20/004

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	49.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.03	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	29.76	---
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm^3	3	23.3	---
			ppm	---	41.9	50
			kg/day	---	0.017	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	29.10	---
			ppm	---	20.23	---
			kg/hr	---	0.0006	3

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Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
12.06.2020	13.06.2020	13.06.2020	16.06.2020	16.06.2020

Sample Type	: Flue Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: GT-5	Stack Diameter	: 1500 mm
Sampling Location	: HRSG 5	Sample Code	: NIL/ST/06/20/005

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	130	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	10.86	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	50838	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	BDL	---
			ppm	---	BDL	---
			kg/day	---	BDL	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	45.0	---
			ppm	---	23.9	50
			kg/day	---	54.91	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	2.6	---
			ppm	---	2.3	---
			kg/day	---	3.17	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
12.06.2020	13.06.2020	13.06.2020	16.06.2020	16.06.2020

Sample Type	: Flue Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: GT-1	Stack Diameter	: 1500 mm
Sampling Location	: HRSG 1	Sample Code	: NIL/ST/06/20/006

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	138	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	10.27	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	47147	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	BDL	---
			ppm	---	BDL	---
			kg/day	---	BDL	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	8.8	---
			ppm	---	4.7	50
			kg/day	---	9.96	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	1.4	---
			ppm	---	1.2	---
			kg/day	---	1.58	---

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Surekha Jamdar
Dy. Technical Manager

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Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
12.06.2020	13.06.2020	13.06.2020	16.06.2020	16.06.2020

Sample Type	: Flue Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: Boiler	Stack Diameter	: 1830 mm
Sampling Location	: Boiler D	Sample Code	: NIL/ST/06/20/007

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	108	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	5.04	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	37169	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	BDL	---
			ppm	---	BDL	---
			kg/day	---	BDL	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	44.0	---
			ppm	---	23.4	50
			kg/day	---	39.25	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	6.6	---
			ppm	---	5.8	---
			kg/day	---	5.89	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
15.06.2020	16.06.2020	16.06.2020	19.06.2020	19.06.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: GP Vent	Stack Diameter	: 640 mm
Sampling Location	: GP Vent	Sample Code	: NIL/ST/06/20/008

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	87.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	1.87	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	1783	---
4	Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	8.9	100
			kg/day	---	0.381	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	9.5	---
			ppm	---	13.64	50
			kg/hr	---	0.0169	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
15.06.2020	16.06.2020	16.06.2020	19.06.2020	19.06.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: LDAN Prilling Tower	Stack Diameter	: 1632 mm
Sampling Location	: LDAN Prilling Tower	Sample Code	: NIL/ST/06/20/015

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	41.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	1.99	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	14147	---
4	Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	8.0	100
			kg/day	---	2.716	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	9.5	---
			ppm	---	13.64	50
			kg/hr	---	0.1344	---

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Dy. Technical Manager

Issued by:

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Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	:	M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	:	Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	:	Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
15.06.2020	16.06.2020	16.06.2020	19.06.2020	19.06.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: Scrubber	Stack Diameter	: 1500 mm
Sampling Location	: LDAN Scrubber	Sample Code	: NIL/ST/06/20/009

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	80.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.27	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	12126	---
4	Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	8.1	100
			kg/day	---	2.357	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	5.8	---
			ppm	---	8.33	50
			kg/hr	---	0.0703	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
15.06.2020	16.06.2020	16.06.2020	19.06.2020	19.06.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: ANP Prilling Tower	Stack Diameter	: 1655 mm
Sampling Location	: ANP Prilling Tower	Sample Code	: NIL/ST/06/20/010

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	44.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	29.2	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	210233	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	18.6	150
			kg/day	---	93.848	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	8.70	---
			ppm	---	12.51	50
			kg/hr	---	2.6300	---
6	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	0.18	25
			ppm	---	0.23	---
			kg/day	---	0.9082	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
15.06.2020	16.06.2020	16.06.2020	19.06.2020	19.06.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: ANP Vaccum Pumps	Stack Diameter	: 200 mm
Sampling Location	: ANP Vaccum Pumps	Sample Code	: NIL/ST/06/20/012

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	49.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.2	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	231	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	8.4	150
			kg/day	---	0.047	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	7.90	---
			ppm	---	11.36	50
			kg/hr	---	0.0026	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	BDL	25
			ppm	---	BDL	---
			kg/day	---	BDL	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	:	M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	:	Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	:	Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
15.06.2020	16.06.2020	16.06.2020	19.06.2020	19.06.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: ANP Cyclone Separator	Stack Diameter	: 1500 mm
Sampling Location	: ANP Cyclone Separator	Sample Code	: NIL/ST/06/20/013

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**57.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**11.3**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**64439**	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**26.7**	150
			kg/day	---	**41.293**	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**20.10**	---
			ppm	---	**28.91**	50
			kg/hr	---	**1.8629**	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	**BDL**	25
			ppm	---	**BDL**	---
			kg/day	---	**BDL**	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
17.06.2020	18.06.2020	18.06.2020	22.06.2020	22.06.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: NPK Train-1 Process	Stack Diameter	: 2772 mm
Sampling Location	: NPK Train-1	Sample Code	: NIL/ST/06/20/017

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	55.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	11.1	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	217871	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	17.4	150
			kg/day	---	90.983	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	14.30	---
			ppm	---	20.57	50
			kg/hr	---	4.4816	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	0.59	25
			ppm	---	0.76	---
			kg/day	---	3.0851	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
17.06.2020	18.06.2020	18.06.2020	22.06.2020	22.06.2020

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: Reformer	**Stack Diameter**	: 1373 mm
Sampling Location	: Ammonia Primary Reformer	**Sample Code**	: NIL/ST/06/20/018

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	174	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	9.87	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	34910.39	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	5.4	---
			ppm	---	2.0	---
			kg/day	---	4.52	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	9.4	---
			ppm	---	5.0	50
			kg/day	---	7.88	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	6.5	---
			ppm	---	5.7	---
			kg/day	---	5.45	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
17.06.2020	18.06.2020	18.06.2020	22.06.2020	22.06.2020

Sample Type	: Flue Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: Boiler	**Stack Diameter**	: 1500 mm
Sampling Location	: CES-A Engine Exhaust Boiler	**Sample Code**	: NIL/ST/06/20/019

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	172	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	9.37	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	39734.35	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	4.7	---
			ppm	---	1.7	---
			kg/day	---	4.48	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	8.6	---
			ppm	---	4.6	50
			kg/day	---	8.20	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	8.2	---
			ppm	---	7.2	---
			kg/day	---	7.82	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
17.06.2020	18.06.2020	18.06.2020	22.06.2020	22.06.2020

Sample Type	: Flue Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: Boiler	Stack Diameter	: 1500 mm
Sampling Location	: CES-B Engine Exhaust Boiler	Sample Code	: NIL/ST/06/20/020

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	180	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	8.76	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	36496.38	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	4.4	---
			ppm	---	1.6	---
			kg/day	---	3.85	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	12.4	---
			ppm	---	6.6	50
			kg/day	---	10.86	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	16.6	---
			ppm	---	14.5	---
			kg/day	---	14.54	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
29.07.2020	30.07.2020	30.07.2020	03.08.2020	03.08.2020

Sample Type	: Process (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: NPK Train-1	Stack Diameter	: 2772 mm
Sampling Location	: NPK Train-1	Sample Code	: NIL/ST/07/20/022

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	57.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	11.4	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	223000	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	20.3	150
			kg/day	---	108.646	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	15.10	---
			ppm	---	21.72	50
			kg/hr	---	4.8436	---
6	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	BDL	25
			ppm	---	BDL	---
			kg/day	---	BDL	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
29.07.2020	30.07.2020	30.07.2020	03.08.2020	03.08.2020

Sample Type	: Process (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: NPK Train-2	Stack Diameter	: 2772 mm
Sampling Location	: NPK Train-2	Sample Code	: NIL/ST/07/20/023

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	56.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	11.9	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	232665	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	18.4	150
			kg/day	---	102.745	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	14.60	---
			ppm	---	21.00	50
			kg/hr	---	4.8860	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	BDL	25
			ppm	---	BDL	---
			kg/day	---	BDL	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
19.08.2020	20.08.2020	20.08.2020	24.08.2020	25.08.2020

Sample Type	: Flue Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: Boiler	**Stack Diameter**	: 1500 mm
Sampling Location	: Boiler A/B	**Sample Code**	: NIL/ST/08/20/022

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	112	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	5.53	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	27151	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	3.9	---
			ppm	---	1.4	---
			kg/day	---	2.54	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	28.9	---
			ppm	---	15.4	50
			kg/day	---	18.83	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	7.0	---
			ppm	---	6.1	---
			kg/day	---	4.56	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

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Netel (India) Limited

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
19.08.2020	20.08.2020	20.08.2020	24.08.2020	25.08.2020

Sample Type	: Flue Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: GT-2	**Stack Diameter**	: 1500 mm
Sampling Location	: HRSG 2	**Sample Code**	: NIL/ST/08/20/023

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	108	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	10.46	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	51862	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	6.7	---
			ppm	---	2.4	---
			kg/day	---	8.34	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	8.0	---
			ppm	---	4.3	50
			kg/day	---	9.96	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	7.5	---
			ppm	---	6.5	---
			kg/day	---	9.34	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
19.08.2020	20.08.2020	20.08.2020	24.08.2020	25.08.2020

Sample Type	: Flue Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: GT-5	Stack Diameter	: 1500 mm
Sampling Location	: HRSG 5	Sample Code	: NIL/ST/08/20/024

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	105	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	9.99	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	49931	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	6.9	---
			ppm	---	2.5	---
			kg/day	---	8.27	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	8.0	---
			ppm	---	4.3	50
			kg/day	---	9.59	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	10.4	---
			ppm	---	9.1	---
			kg/day	---	12.46	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

W-408, Rabale MIDC,
TTC Industrial Area,
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CIN : U74999MH2003PLC142228

Regd. office : Liberty Building, 3rd Floor, Sir Vithaldas Thackersey Marg, (New Marine Lines), Mumbai - 400 020. Tel. : 22066231 / 61

Netel (India) Limited

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
21.08.2020	24.08.2020	24.08.2020	27.08.2020	28.08.2020

Sample Type	: Flue Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: Reformer	**Stack Diameter**	: 1373 mm
Sampling Location	: Ammonia Primary Reformer	**Sample Code**	: NIL/ST/08/20/025

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	168	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	9.20	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	33026.91	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	5.2	---
			ppm	---	1.9	---
			kg/day	---	4.12	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	7.1	---
			ppm	---	3.8	50
			kg/day	---	5.63	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	9.3	---
			ppm	---	8.1	---
			kg/day	---	7.37	---

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Shraddha Kere
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End of Report

Netel (India) Limited

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
21.08.2020	24.08.2020	24.08.2020	27.08.2020	28.08.2020

Sample Type	: Flue Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: Boiler	Stack Diameter	: 1500 mm
Sampling Location	: CES-A Engine Exhaust Boiler	Sample Code	: NIL/ST/08/20/026

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	176	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	8.51	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	35817.95	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	3.6	---
			ppm	---	1.3	---
			kg/day	---	3.09	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	7.9	---
			ppm	---	4.2	50
			kg/day	---	6.79	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	6.9	---
			ppm	---	6.0	---
			kg/day	---	5.93	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

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Netel (India) Limited

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
21.08.2020	24.08.2020	24.08.2020	27.08.2020	28.08.2020

Sample Type	: Flue Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: Boiler	**Stack Diameter**	: 1500 mm
Sampling Location	: CES-B Engine Exhaust Boiler	**Sample Code**	: NIL/ST/08/20/027

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	179	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	8.67	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	36249.18	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	3.5	---
			ppm	---	1.3	---
			kg/day	---	3.04	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	13.1	---
			ppm	---	7.0	50
			kg/day	---	11.40	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	19.5	---
			ppm	---	17.0	---
			kg/day	---	16.96	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
11.09.2020	12.09.2020	12.09.2020	15.09.2020	15.09.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: WNA - 2 Process	Stack Diameter	: 953 mm
Sampling Location	: WNA - 2 Stack	Sample Code	: NIL/ST/09/20/006

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	63	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.21	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	5026	---
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm^3	3	191	---
			ppm	---	343.7	---
			kg/day	---	23.039	---
			kg/ton of WNA	---	0.0817	3
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	18.70	---
			ppm	---	13.00	---
			kg/hr	---	0.0653	3

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
11.09.2020	12.09.2020	12.09.2020	15.09.2020	15.09.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: WNA - 3 Process	Stack Diameter	: 953 mm
Sampling Location	: WNA - 3 Stack	Sample Code	: NIL/ST/09/20/007

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	131	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.25	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	4256	---
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm^3	3	172	---
			ppm	---	309.5	---
			kg/day	---	17.569	---
			kg/ton of WNA	---	0.0660	3
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	19.30	---
			ppm	---	13.42	---
			kg/hr	---	0.0571	3

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
11.09.2020	12.09.2020	12.09.2020	15.09.2020	15.09.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: WNA - 4 Process	Stack Diameter	: 953 mm
Sampling Location	: WNA - 4 Stack	Sample Code	: NIL/ST/09/20/008

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	128	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.31	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	4402	---
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm^3	3	235	---
			ppm	---	422.9	---
			kg/day	---	24.827	---
			kg/ton of WNA	---	0.0577	3
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	26.30	---
			ppm	---	18.29	---
			kg/hr	---	0.0805	3

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
11.09.2020	12.09.2020	12.09.2020	15.09.2020	15.09.2020

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: CNA-1 Process	**Stack Diameter**	: 75 mm
Sampling Location	: CNA-1	**Sample Code**	: NIL/ST/09/20/009

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**47**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**2.08**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**30.77**	---
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm^3	3	**32.3**	---
			ppm	---	**58.1**	50
			kg/day	---	**0.024**	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**34.60**	---
			ppm	---	**24.06**	---
			kg/hr	---	**0.0007**	3

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
11.09.2020	12.09.2020	12.09.2020	15.09.2020	15.09.2020

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: ANP Deducting Unit (Cyclone Separator)	**Stack Diameter**	: 1500 mm
Sampling Location	: ANP Deducting Unit (Cyclone Separator)	**Sample Code**	: NIL/ST/09/20/004

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**54.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**10.3**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**59883**	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**24.3**	150
			kg/day	---	**34.924**	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**17.40**	---
			ppm	---	**25.03**	50
			kg/hr	---	**1.4989**	---
6	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	**8.70**	25
			ppm	---	**11.20**	---
			kg/day	---	**12.5036**	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	:	M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	:	Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	:	Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
11.09.2020	12.09.2020	12.09.2020	15.09.2020	15.09.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: ANP Vaccum Pumps	Stack Diameter	: 200 mm
Sampling Location	: ANP Vaccum Pumps	Sample Code	: NIL/ST/09/20/005

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	45.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.1	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	219	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	9.2	150
			kg/day	---	0.048	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	6.90	---
			ppm	---	9.92	50
			kg/hr	---	0.0022	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	6.30	25
			ppm	---	8.11	---
			kg/day	---	0.0331	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
11.09.2020	12.09.2020	12.09.2020	15.09.2020	15.09.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: Scrubber	Stack Diameter	: 1500 mm
Sampling Location	: LDAN Venturi Scrubber	Sample Code	: NIL/ST/09/20/002

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**82.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**2.31**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**12319**	---
4	Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**7.0**	100
			kg/day	---	**2.070**	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**6.4**	---
			ppm	---	**9.19**	50
			kg/hr	---	**0.0788**	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
11.09.2020	12.09.2020	12.09.2020	15.09.2020	15.09.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: GP Vent	Stack Diameter	: 640 mm
Sampling Location	: GP Vent	Sample Code	: NIL/ST/09/20/003

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**84.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**1.84**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**1776**	---
4	Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**11.6**	100
			kg/day	---	**0.494**	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**9.9**	---
			ppm	---	**14.21**	50
			kg/hr	---	**0.0176**	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

STACK MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
10.09.2020	11.09.2020	11.09.2020	14.09.2020	14.09.2020

Sample Type	: Flue Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: GT-1	Stack Diameter	: 1500 mm
Sampling Location	: HRSG 1	Sample Code	: NIL/ST/09/20/001

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	101	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	10.73	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	54125	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	0.0	---
			ppm	---	0.0	---
			kg/day	---	0.0	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	14.2	350
			ppm	---	7.5	---
			kg/day	---	18.45	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	41.1	---
			ppm	---	35.9	---
			kg/day	---	53.39	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Annexure 2: Treated Water Analysis Reports

WATER MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
10.06.2020	12.06.2020	12.06.2020	15.06.2020	16.06.2020

Sample Type	: Water	**Sampling done by**	: Netel (India) Limited
Sample Container	: Plastic can	**Sample Quantity**	: 2 Litres
Sampling Location	: Treated Effluent (ETP)	**Sample Code**	: NIL/W/06/20/004

Sr. No.	Test Parameter	Method	Unit	MDL*	Result	Consent Limits
1	pH	IS 3025 (Part 11)	–	0.5 - 13.5	**8.03**	6.0 - 8.5
2	Total Dissolved Solids	IS 3025 (Part 16)	mg/lit	5	**1305**	2100
3	Total Suspended Solids	IS 3025 (Part 17)	mg/lit	5	**33**	100
4	COD	IS 3025 (Part 58)	mg/lit	10	**60**	250
5	BOD	IS 3025 (Part 44)	mg/lit	4	**17**	100
6	Residual Free Chlorine	IS 3025 (Part 26)	mg/lit	0.1	**<0.1**	1
7	Fluoride	APHA 4500-F-D	mg/lit	0.02	**0.1**	1.5
8	Nitrate Nitrogen	IS 3025 (Part 34)	mg/lit	0.05	**9.6**	20
9	Phosphate	APHA 4500-P-C	mg/lit	1	**3.91**	5
10	Free Ammonical Nitrogen	IS 3025 (Part 34)	mg/lit	0.5	**0.92**	4
11	Ammonical Nitrogen	IS 3025 (Part 34)	mg/lit	0.1	**39.3**	50
12	Arsenic	APHA 3114-C	mg/lit	0.005	**BDL**	0.2
13	Cyanide	APHA 4500-CN-E	mg/lit	0.01	**BDL**	0.2
14	Vanadium	APHA 3111-B	mg/lit	0.2	**BDL**	0.2
15	Total Chromium (as Cr)	APHA 3111-B	mg/lit	0.01	**BDL**	2
16	Hexavalent Chromium (Cr^{6+})	APHA 3500-Cr-B	mg/lit	0.1	**BDL**	0.1
17	Oil & Grease	APHA 5520-B	mg/lit	0.2	**BDL**	10

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

WATER MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
29.07.2020	01.08.2020	01.08.2020	04.08.2020	05.08.2020

Sample Type	: Water	**Sampling done by**	: Netel (India) Limited
Sample Container	: Plastic can	**Sample Quantity**	: 2 Litres
Sampling Location	: Treated Effluent (ETP)	**Sample Code**	: NIL/W/07/20/091

Sr. No.	Test Parameter	Method	Unit	MDL*	Result	Consent Limits
1	pH	IS 3025 (Part 11)	–	0.5 - 13.5	7.28	6.0 - 8.5
2	Total Dissolved Solids	IS 3025 (Part 16)	mg/lit	5	1638	2100
3	Total Suspended Solids	IS 3025 (Part 17)	mg/lit	5	62	100
4	COD	IS 3025 (Part 58)	mg/lit	10	90	250
5	BOD	IS 3025 (Part 44)	mg/lit	4	38	100
6	Residual Free Chlorine	IS 3025 (Part 26)	mg/lit	0.1	BDL	1
7	Fluoride	APHA 4500-F-D	mg/lit	0.02	0.1	1.5
8	Nitrate Nitrogen	IS 3025 (Part 34)	mg/lit	0.05	3.2	20
9	Phosphate	APHA 4500-P-C	mg/lit	1	4.2	5
10	Free Ammonical Nitrogen	IS 3025 (Part 34)	mg/lit	0.5	1.2	4
11	Ammonical Nitrogen	IS 3025 (Part 34)	mg/lit	0.1	39.0	50
12	Arsenic	APHA 3114-C	mg/lit	0.005	BDL	0.2
13	Cyanide	APHA 4500-CN-E	mg/lit	0.01	BDL	0.2
14	Vanadium	APHA 3111-B	mg/lit	0.2	BDL	0.2
15	Total Chromium (as Cr)	APHA 3111-B	mg/lit	0.01	BDL	2
16	Hexavalent Chromium (Cr^{6+})	APHA 3500-Cr-B	mg/lit	0.1	BDL	0.1
17	Oil & Grease	APHA 5520-B	mg/lit	0.2	BDL	10

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

WATER MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
19.08.2020	20.08.2020	20.08.2020	24.08.2020	25.08.2020

Sample Type	: Water	**Sampling done by**	: Netel (India) Limited
Sample Container	: Plastic can	**Sample Quantity**	: 2 Litres
Sampling Location	: Treated Effluent (ETP)	**Sample Code**	: NIL/W/08/20/108

Sr. No.	Test Parameter	Method	Unit	MDL*	Result	Consent Limits
1	pH	IS 3025 (Part 11)	–	0.5 - 13.5	**6.75**	6.0 - 8.5
2	Total Dissolved Solids	IS 3025 (Part 16)	mg/lit	5	**2149**	2100
3	Total Suspended Solids	IS 3025 (Part 17)	mg/lit	5	**55**	100
4	COD	IS 3025 (Part 58)	mg/lit	10	**132**	250
5	BOD	IS 3025 (Part 44)	mg/lit	4	**41**	100
6	Residual Free Chlorine	IS 3025 (Part 26)	mg/lit	0.1	**<0.1**	1
7	Fluoride	APHA 4500-F-D	mg/lit	0.02	**1.0**	1.5
8	Nitrate Nitrogen	IS 3025 (Part 34)	mg/lit	0.5	**<0.5**	20
9	Phosphate	APHA 4500-P-C	mg/lit	1	**6.4**	5
10	Free Ammonical Nitrogen	IS 3025 (Part 34)	mg/lit	0.5	**<0.5**	4
11	Ammonical Nitrogen	IS 3025 (Part 34)	mg/lit	0.1	**15.9**	50
12	Arsenic	APHA 3114-C	mg/lit	0.005	**<0.005**	0.2
13	Cyanide	APHA 4500-CN-E	mg/lit	0.01	**<0.01**	0.2
14	Vanadium	APHA 3111-B	mg/lit	0.2	**<0.2**	0.2
15	Total Chromium (as Cr)	APHA 3111-B	mg/lit	0.01	**<0.01**	2
16	Hexavalent Chromium (Cr^{6+})	APHA 3500-Cr-B	mg/lit	0.1	**<0.1**	0.1
17	Oil & Grease	APHA 5520-B	mg/lit	0.2	**1**	10

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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Regd. office : Liberty Building, 3rd Floor, Sir Vithaldas Thackersey Marg, (New Marine Lines), Mumbai - 400 020. Tel. : 22066231 / 61

WATER MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
11.09.2020	14.09.2020	14.09.2020	17.09.2020	17.09.2020

Sample Type	: Water	Sampling done by	: Netel (India) Limited
Sample Container	: Plastic can	Sample Quantity	: 2 Litres
Sampling Location	: Treated Effluent (ETP)	Sample Code	: NIL/W/09/20/058

Sr. No.	Test Parameter	Method	Unit	MDL*	Result	Consent Limits
1	pH	IS 3025 (Part 11)	–	0.5 - 13.5	**7.07**	6.0 - 8.5
2	Total Dissolved Solids	IS 3025 (Part 16)	mg/lit	5	**1799**	2100
3	Total Suspended Solids	IS 3025 (Part 17)	mg/lit	5	**43**	100
4	COD	IS 3025 (Part 58)	mg/lit	10	**30**	250
5	BOD	IS 3025 (Part 44)	mg/lit	5	**10.3**	100
6	Residual Free Chlorine	IS 3025 (Part 26)	mg/lit	0.1	**<0.1**	1
7	Fluoride	APHA 4500-F-D	mg/lit	0.02	**0.2**	1.5
8	Nitrate Nitrogen	IS 3025 (Part 34)	mg/lit	0.5	**16.2**	20
9	Phosphate	APHA 4500-P-C	mg/lit	1	**4.1**	5
10	Free Ammonical Nitrogen	IS 3025 (Part 34)	mg/lit	0.5	**0.16**	4
11	Ammonical Nitrogen	IS 3025 (Part 34)	mg/lit	0.1	**30.1**	50
12	Arsenic	APHA 3114-C	mg/lit	0.005	**BDL**	0.2
13	Cyanide	APHA 4500-CN-E	mg/lit	0.01	**BDL**	0.2
14	Vanadium	APHA 3111-B	mg/lit	0.2	**BDL**	0.2
15	Total Chromium (as Cr)	APHA 3111-B	mg/lit	0.01	**BDL**	2
16	Hexavalent Chromium (Cr^{6+})	APHA 3500-Cr-B	mg/lit	0.1	**BDL**	0.1
17	Oil & Grease	APHA 5520-B	mg/lit	0.2	**0.2**	10

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Annexure 3: Ambient Noise Monitoring Reports

NOISE LEVEL MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customers Reference	: Work Order no. 4800055893, Dated 24.07.2019

Instrument Model	: Lutron SL-4033-SD (Class 1)	**Instrument Serial No.**	: Q640792
Date of Sampling	: 11.06.2020	**Date of Calibration**	: 27.09.2019
Date of Reporting	: 15.06.2020	**Next Calibration Due**	: 28.09.2020

Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	**68.1**	75	**66.4**	70
2	NPK Gate No. 4	**53.5**	75	**53.8**	70
3	NPK Raw Material Storage Area	**67.4**	75	**65.6**	70
4	NPK Production Unit	**56.7**	75	**56.5**	70
5	Near IPA Gate	**64.1**	75	**63.8**	70
6	Near CFB Cooling Tower	**70.5**	75	**68.5**	70
7	Ammonia Unloading	**59.8**	75	**59.4**	70
8	K-6 Plot (Near Main Gate)	**70.1**	75	**69.2**	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

NOISE LEVEL MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customers Reference	: Work Order no. 4800055893, Dated 24.07.2019

Instrument Model	: Lutron SL-4033-SD (Class 1)	**Instrument Serial No.**	: Q640792
Date of Sampling	: 31.07.2020	**Date of Calibration**	: 27.09.2019
Date of Reporting	: 03.08.2020	**Next Calibration Due**	: 28.09.2020

Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	**68.4**	75	**67.1**	70
2	NPK Gate No. 4	**56.7**	75	**56.9**	70
3	NPK Raw Material Storage Area	**69.7**	75	**69.7**	70
4	NPK Production Unit	**57.3**	75	**57.1**	70
5	Near IPA Gate	**64.0**	75	**62.5**	70
6	Near CFB Cooling Tower	**70.5**	75	**69.7**	70
7	Ammonia Unloading	**60.3**	75	**59.6**	70
8	K-6 Plot (Near Main Gate)	**67.7**	75	**66.1**	70

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

NOISE LEVEL MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customers Reference	: Work Order no. 4800055893, Dated 24.07.2019

Instrument Model	: Lutron SL-4033-SD (Class 1)	**Instrument Serial No.**	: Q640792
Date of Sampling	: 09.09.2020	**Date of Calibration**	: 27.09.2019
Date of Reporting	: 11.09.2020	**Next Calibration Due**	: 28.09.2020

Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	**68.5**	75	**67.4**	70
2	NPK Gate No. 4	**55.4**	75	**54.1**	70
3	NPK Raw Material Storage Area	**68.8**	75	**69.1**	70
4	NPK Production Unit	**55.7**	75	**54.2**	70
5	Near IPA Gate	**63.0**	75	**63.0**	70
6	Near CFB Cooling Tower	**70.4**	75	**69.1**	70
7	Ammonia Unloading	**61.8**	75	**60.7**	70
8	K-6 Plot (Near Main Gate)	**70.8**	75	**69.9**	70

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

NOISE LEVEL MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customers Reference	: Work Order no. 4800055893, Dated 24.07.2019

Instrument Model	: Lutron SL-4033-SD (Class 1)	**Instrument Serial No.**	: Q640792
Date of Sampling	: 20.08.2020	**Date of Calibration**	: 27.09.2019
Date of Reporting	: 24.08.2020	**Next Calibration Due**	: 28.09.2020

Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	**67.6**	75	**67.0**	70
2	NPK Gate No. 4	**55.9**	75	**56.2**	70
3	NPK Raw Material Storage Area	**69.3**	75	**69.3**	70
4	NPK Production Unit	**55.9**	75	**55.0**	70
5	Near IPA Gate	**66.6**	75	**64.8**	70
6	Near CFB Cooling Tower	**72.1**	75	**72.6**	70
7	Ammonia Unloading	**59.1**	75	**58.4**	70
8	K-6 Plot (Near Main Gate)	**67.1**	75	**67.1**	70

Note :

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

Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Annexure 4: CSR Report

DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED

Deepak Fertilizers and Petrochemicals Corporation Ltd, Taloja
CSR Report 2019-20 Yearly (Up to March 2020)

VISION

To act as an effective catalyst in Deepak Fertilisers And Petrochemicals Corporation Limited (DFPCL) 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 operations and influence, shall be:

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

Introduction:

As a true corporate citizen, DFPCL is committed to social thought and action and is resolute in its dedication to serve the society they live in. The Company has 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), Ishanya Foundation (ISFON) is a registered NGO under the provision of the Bombay Public Trust Act 1950.

DFPCL has 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**:

Sr.No.	Block	Revenue Village	Hamlet
1	Panvel	Ambe	
2	Panvel	Ambivali	
3	Panvel	Shirwali	
4	Panvel	Chinchvali -T	
5	Panvel	Wavanja	

6	Panvel	Nitlas	
7	Panvel	Devichapada	
8	Panvel	Pale Kh	
	Panvel		Dongryachapada
9	Panvel	Chindran	
10	Panvel	Tondre	
11	Panvel	Khairne	
12	Panvel	Mahalungi	
13	Panvel	Kanpoli	
14	Panvel	Nere	
	Panvel		Nerepada
	Panvel		Bhokarpada
	Panvel		Sangtoli
15	Panvel	Owe	
	Panvel		Owe Camp
	Panvel		Peth
16	Panvel	Shivkar	
	Panvel		Mohopada
17	Ambarnath	Brudul	
18	Panvel	Cherwali	
19	Panvel	Waje	
20	Ambarnath	Shelarpada (Ambrnath)	
	Ambarnath		Mhatrepada
21	Ambarnath	Chirad	
22	Ambarnath	Chinchvali (Ambrnath)	
23	Panvel	Pale BK	
	Panvel		Walvali
	Panvel		Kolwadi
24	Panvel	Khanav	
25	Ambarnath	Kumbarli	
26	Panvel	Talojamajkur	
	Panvel		Dharna
	Panvel		Pethali
27	Panvel	Turbhe	
28	Panvel	Siddhikarvale	
29	Panvel	Morbe	
30	Ambarnath	Karvale KH	
31	Panvel	Wagani (TT)	
32	Panvel	Karmbeli	
	Panvel		Bhalyachiwadi
	Panvel		Yelmar
33	Panvel	Khairwadi	
	Panvel		Fanswadi
	Panvel		Garmal

34	Panvel	Modhar	
	Panvel		Kuttarpada
35	Panvel	Hedutne	
36	Panvel	Gadeswar	
	Panvel		Rithghar
37	Panvel	Dhundre	
38	Panvel	Dhamni	
	Panvel		Housechiwadi
39	Panvel	Deharang	
40	Panvel	Kondap	
41	Panvel	Poyanje	
42	Panvel	Wardoli	
43	Ambarnath	Nariwali	
44	Ambarnath	Narhhean	
45	Ambarnath	Usatne	
46	Ambarnath	Dombiwali	
47	Panvel	Vihighar	

Nearly 17081 families served in urban, rural and tribal areas through various initiatives by the end of financial year 2019-20.

Sr. No	Name of Project	Major Activity	No. of Families Benefited
1	Wadi & Health	Wadi, Veg., WRD	0558
3	Dairy Development	Livestock & Artificial Insemination	0481
4	Arogyam	Health Camps, Eye Camp, Cataract Operation, Mobile Clinic	09398
	Community Development and Social Welfare	Watershed, Development, Disaster Relief, Drinking Water, Scheme	2394
5	Vocational Skill Development	Vocational Courses and Placement	298
6	LEED	Entrepreneurship Development, Yellow Ribbon NGO Fair, Muskaan, Income Generation Program	3100
7	Gyanam	Scholl Infrastructure and human Resource	464
	I-REACH	Art & Culture	388
	Total		**17081**

DFPCL is 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 Training

- Diploma in opthomatry
- Tailoring

Health and Education

- Mobile Clinic
- Health check-up camp
- Eye camp
- Kitchen Garden

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 long-term 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.

Mango Fruiting

The proposed project thus primarily aims at the following:

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

• To empower of women through economic and social development
• To improve the health status of the community
• To improve environment through carbon fixation


Vegetable Cultivation

Project Activities:

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

Objectives are highlighted below:

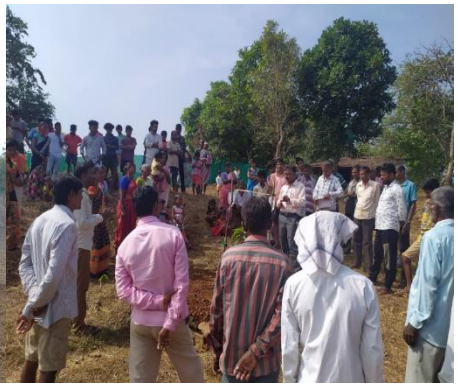
- Mobilisation of community through project promotional meetings and exposure.
- Selection of beneficiaries and land
- Plantation of fruit and forestry trees.
- Development of eroded wasteland through soil and water conservation.
- Water resource development and water conveyance
- Cultivation of suitable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

Major Achievements:

Sr.No.	Major Activity	Target	Achievement	Remarks
1	Wadi Plantation Batch-VII: Selection, Layout, Pit digging, Pit Filling with Basal Dose and Plantation of Wadi and Documentation	80	80	Plantation of 2480 Mango Grafts-(Variety-Keshar) Survival 93.25 % as on March 20
2	Support for Farm Implements Batch-VII	80	80	Set of one Spade, Pickaxe and Secateurs per farmer
3	Live Fencing to Wadi (Bamboo)	80	80	Plantation of Forestry Plants done (Bamboo) -4000 nos.
4	Plant Protection (B-I to B-VII)	556	556	Done support for pesticide (Bordopest, Carbendazim and Insecticide)
5	Support for Nutrient management (B-I to B-VII)	556	556	Provided NPK and Micronutrient
6	Support for WRD and Conveyance	80	80	Support for tank, pipe, Motor and engine to ensure protective irrigation to Wadi
7	Soil and Water Conservation-B-VII	80	72	SWC work is not required to 8 wadi

8	Support of Vegetable Seed (Nos. of Farmers)	240	240	vegetable cultivation done on ~80-acre area. Farmer getting additional income of Rs.15000-25000 per farmer.
13	Trial Plot (Exotic/ new vegetables)	6	6	Zukeni, Paddy, Okera, Sweet Corn, Marigold, Sweet Corn.
14	Vegetable Nursery in tray	03	04	7100 no's of seedling are prepared, Sell out 3900 no's seedling and getting additional income of Rs.9300.00.
15	Mango Graft Nursery	5	02	Intended mango graft make available at local level.
16	Jasmin Nursery	01	01	2700 plants are ready
Capacity Building				
1	Farmers internal exposure	4	4	
2	Exposure of staff and Volunteers	2	2	Conducted exposure visit for staff at Nasik exhibition and Sinner taluka to update the knowledge.
4	Kishan Melava	2	2	162 Participants
5	Village Meeting	150	150	





Case Study

Project: Wadi Project | **Year of Participation: 2014**

Name of Aspirant: Ms. Budhi Ambho, Mr. Ambho Kamlya Bhagat

Village: Shirvali Taluka Panvel District Raigad

Family Profile: Ambho and Bhudi have two sons and a daughter. The elder son is working on a temporary basis and their 17 years old daughter is helping her parents in their farm work. The third child is physically challenged.

Land: 1 Acre

Wadi Yield Year	No. of fruit tree	Home consumption quantity in kg.	Sold quantity in kg.	Total harvested quantity in kg.	Total Income
2018-19	22	33	214	247	Rs. 27,325

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. No.	Major Activity	Target	Achievement	Remarks
1	Training of aspirant's new batches	03	03	Total 13 aspirants attended Training with exposure
2	Livestock Training (CLDP)	02	02	Two training were conducted at Khanav and Kumbharli village. 21 women and 70 men dairy entrepreneur participated in this training.
3	Doorstep Visit of expert for Monitoring & treatment of critical cows/Calves	04	03	Visit of Dr. D. S. Chature No. of cows & Calves Treated: 146 (Empty Cow-106, Treatment of Cow & Calves-26, Empty Calves-14 Total: 146)
4	External Exposure Visit	01	01	The intention was learning by seeing we have conducted 01 exposure at Dairy Exhibition on 16 Dec 2019 at Katraj, Pune. In which 26 aspirants were participated. (M- 24& F-2)
5	Internal Exposure Visit	02	02	27 dairy aspirants were participated in the exposure. It was intended to create awareness about adoption of best dairy management practices. (M- 21+ F-6= 27)
6	Purchase of Cows	15	15	Support given to 15 aspirants for livelihood development thorough cow induction activity under dairy development project. Apart from this we have provided health services, Insurance and required medicines at initial period.
7	Vaccination FMD	600	600	Prevention is better than cure, so we have done vaccination for FMD to 600 milking animals as a preventive measure. (Cows-88+Calves-124+Other-388,Total=600)
8	Vaccination Theileriosis	200	110	Done vaccination to 110 cattle's as a preventive measure (Cows-45 + Calves-65); Balance are in progress.
9	Female Calves Growth Monitoring	04	04	We are closely monitoring growth of female calves and as per observation, continuous efforts are being made for better growth of calves. (Excellent-46, Good-34, AV-55, Poor-61, Total=196) Created Asset of Rs.23.03 lakh.
10	Artificial Insemination	750	758	Provided doorstep artificial insemination service in 54 villages of Panvel, Amarnath & kalyan taluka.

11	Pregnancy Diagnosis (up to Dec End)	763	763	We are doing regular and timely pregnancy diagnosis. (CPD-309; Empty-75; Repeat-291 & Pending-88=763) Conception Rate-45.77%
12	Calving		310	New 310 cow were born during this year. Which will lead to increase in asset base of livestock (Male-136, Female-174)
13	Perennial Fodder Plot	10	06	Due to water scarcity in summer season in the area unable to achieve target. Apart from this less acceptance for Azzola.
14	Calf rally	1	1	To increase Healthy competition between aspirants we have organized calf rally on 23.1.20 at Pale village. In which 34 aspirants participated with their 53 female calves. We have provided prizes for 03 best calves in each age group.
15	Calf Grower Feed	75	40	Balance distribution is under progress, acceptance level for the same is low.
16	Vermicompost Bed	10	10	
17	Silage Bag	10	10	
18	Maize seed Distribution	20	20	Convergence from Govt. Scheme total 320 Kg seed distributed to 20 dairy aspirants.

Total Artificial Insemination Report Since Inception:

	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Artificial Insemination	307	602	549	602	735	762
Pregnancy Diagnosis	178	367	294	367	431	532
Calving						
Male	49	57	91	135	142	
Female	56	64	141	109	137	

Output of the Dairy Project

Details	Cow Milk Summery	Calf Milk Summery	Total
Total Milk Produced	72920 Lit.	12690 Lit	85610 Lit
Milk Consumed at Home	39440 Lit	8360 Lit	47800 Lit.
Milk Consumed by Calf	250692 Lit	36760 Lit	287452 Lit
Milk Sold	363052 Lit	57810 Lit	420862 Lit
Additional Income through sale of Milk	**Rs. 84,67,260.00**	**Rs.13,05,670.00**	**Rs. 97,72,930.00**

Vocational Training:

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

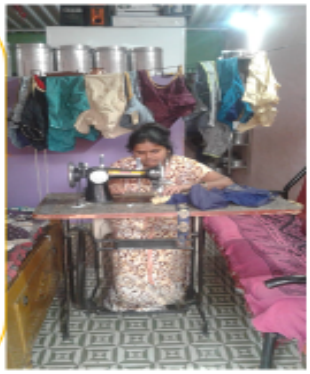
- Life Skills and Values
- Spoken English
- Exposure visits
- One-on-One Mentoring
- Support for Placements
- Soft Skills Training Programs
- Practical Oriented Training
- Internships (based on each course)
- Pick-up and Drop Facility
- Digital Literacy and Financial Literacy
- Placement Tracking

Major Achievements:

Sr. No.	Major Activities	Plan	Achi.	Remarks
A) Tailoring Course				
1	Total Students Covered	50	61	Providing basic Tailoring Course to unemployed women and girls.
2	No. of Students Completed Course	50	37	Variance-13; due to other classes of Tailoring started and dropout-07
3	No. of Drop out Students	00	07	Dropout due to their own family problems
4	No. of Students In Course	00	17	Presently 17 students are under training.
5	Training of Sewing Machine Maintenance & Servicing	03	03	Conducted training on dated 24th Jun, 20th Aug 2019 and 24th Feb 2020 total 34 women participated in the training.
6	BSc. Optometry	07 new 7 Existing	00 7	07 variance- postponed support in next yr. due to change in policy 2018-19– 4 students 2017-18– 3 students
7	No. of Parents meeting	02	02	Conducted two meetings with students and parents for counseling Date: 22 Jan 2020 Attendance: Male:02 Female:06

Case Study - Tailoring

Name of Aspirant: Mrs. Vandana Ajay Bharsakde
Village: Pale Khurd Taluka Panvel District Raigad
Support of Course: Basic Tailoring Course
Support of Year: 2019
Family Profile: Vandana is 27 years of age and has 4 members in her family consisting of her husband and two sons. Her husband, the only earning member in the family, works at Taloja MIDC. His income is limited, and they find it difficult to subsist, due to which she aspires to financially contribute for her family's future. She was made aware of Ishanya Foundation's tailoring course which is one of its key pillars towards Women's Empowerment. She sought admission and learnt to stitch various types of blouses (simple blouse, katori blouse and fashionable blouse). Today she has started her own home enterprise and through IsFon, is able to provide a helping hand to improve the financial condition of her family.



Support Given	Average Monthly Income	Annual Income	Impact
Basic Tailoring Course	Rs. 7,800	Rs. 93,600	Children education, improved standard of living and saving money in bank for the future.

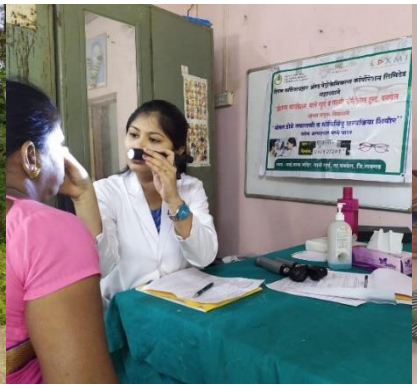
Aarogyam Project:

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.

Kitchen Garden

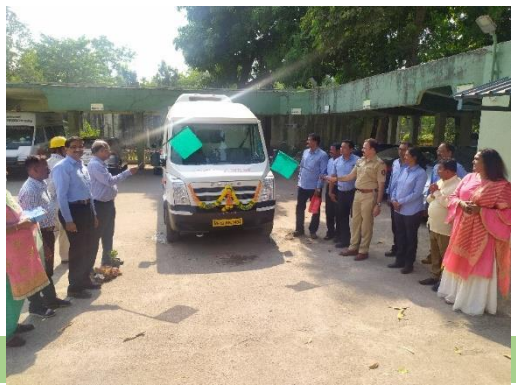
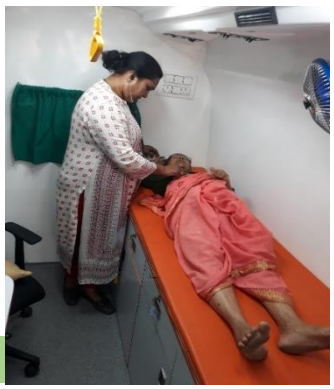
Sr. No	Activity	Plan	Achievement	Remark
01	Health check-up camps	02	02 (271 Patients)	(271 patients screened; 60 patients refer to MGM) Patients who come from a section of the society who cannot enjoy the privilege of expensive medical services availed the benefit of these check-up camps.
02	Eye Check-up Camps	3	03 (370 patients)	Venue: Pale Kh. IsFon Office Date of Camps: 26th April 2nd Aug. and 20th Dec 2019. Total Patients Screened:702 Cataract Detected: 157 Cataract Operated: 120 patients Spectacles distributed to 329 patients.
03	School Screening Camps	03	03	• Venue: Sanjay Gandi Madhyamic High school-Kolvadi, RZP School- Valvali and Sudhagad High School and RZP school Chindren • Dates of Camps: 23d Aug, 29th Nov 2019 and 31st Jan 2020, respectively. • Total Students Screened: 984 Spectacles distributed to 13 student, 73 students were referred to LCT for further treatment and diagnosis.
04	Kitchen Garden	400	400	Vegetable seed distributed to families from project area.
05	Mahila Melava	02	01	Conducted Mahila Melava on 17th Jan 2020 at Valvali village, during the melava Mrs. Ritcha demonstrates Yoga and Mrs. Uma Joshi given informative talk on Natural therapy. Total 132 women participated.

			Second Event cancelled due to COVID-19.
	• Doorstep Health Services with free medicine • Health Awareness Referral Services	**5985**	Objective: To improvement of health by providing doorstep health services through mobile clinic. Villages Covered: 22 (More than 30000 Population)





Type of Service Provided through Mobile Clinic:

a. Mobile Medical Units will help mobilise healthcare to conduct screenings, basic diagnosis and provide awareness and medication.
b. Mobile Medical Unit shall be equipped with a doctor and a nurse who were trained to recognise symptoms of health-related ailments, conduct basic diagnosis of common diseases, prescribe medication and referrals to specialised clinics in case of further medical complications.
c. Mobile healthcare services are able to cover Two to Three villages/locations in a single day.
d. The services provided would of necessity be preventive and promotive and outpatient curative care. Where there are cases needing acute medical care on the day the Mobile clinic reaches the site, such care would be provided, and patient referral organized.

Dyanam/CDSW:

Dyanam

Sr. No.	Major Activity	Plan	Achievement	Remarks
01	Digital School	20 Class	20 Class	Work is in progress to installation of digital set at 20 classes from Chindren Devichapada and Kanpoli village of ***Taloja (Maharashtra).***
02	Infrastructure Development	02 School	02 School	• Installation of blocks at primary school from Suva village of ***Dahej (Gujrat).*** • *Donation of Steel to MADP School, Kalamboli for Construction.*
03	Support for Manpower of School	01	01	Appointed one teacher (Math & Science) to fulfill requirement of Rahiyad Secondary school of ***Dahej MIDC (Gujrat).*** (Math and science)
04	Donation for Girls Education	1.11111 (Rs.)	1.11111 (Rs.)	DFPCL contributed Rs.1,11,111/- to Kanya kelavni Nidhi launched by Dept. of Women & Child Devt. of Gujrat Govt for Girls Education ***(Dehej, Gujrat).***

Support for Disaster Management

S. N.	Activities	Plan	Achi.	Remarks
01	***Support to Flood affected families from Sangli and Kolhapur District of Maharashtra***	500 Families	500 Families	Saree:500 Towel: 500 Blanket: 500
02	***Donation to Donkey Sanctuary Welfare Association (DSWA) for:*** ➢ To provide health related support to Donkeys which leads to increase or to start income to the affected families. ➢ Provide doorstep health services to animals. ➢ Provide feed and fodder support to 5000 donkeys	5000 Donkeys	5000 Donkeys	Support Given of Rs. 5 Lakh. (500 Families)

03	***Support done for watershed work to Mardi village of Maan Block, Satara District.*** Mardi is a large village located in Man Taluka of Satara district, Maharashtra with total 1071 families residing Was facing problem of water scarcity for drinking and agriculture.	1071 families	1071 Families	Rs.10 Lakh donated for completion of watershed work.

Helmet Distribution to Taloja Police Station Employees

ISHĀNYA FOUNDATION

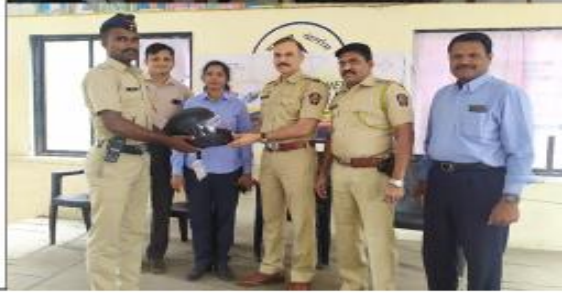
50 Helmets Distributed to Police officers from Taloja Police Station.

Most of the officers are traveling on motorcycle while patrolling to manage traffic and other official works with in the Taloja MIDC. Apart from this most of the officers are traveling by motorcycle to reach office. Every officers or employee need motivation to perform better or maintain consistency in the work. This activity will motivate to police officers.

Objectives:

Aims to reduce the risk of serious head and brain injuries by reducing the impact of a force or collision to the head.

Wearing a helmet while riding greatly reduces the severity of injury and potential trauma to the head, the probability of death, and overall cost of medical care. A **helmet** is designed to cushion and protect a rider's head from the collision of a crash



Kanpoli Drinking Water Scheme

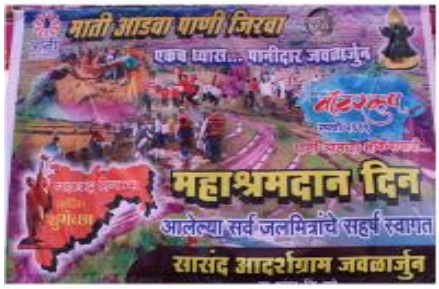
ISHANYA FOUNDATION

Sr. No.	Activities	Plan	Achi.	Remarks
1	Drinking Water Scheme	01	01	• Elevated Storage Capacity: 25000 lit. with 04 distribution Points in Kanpoli village. • Families Benefited: 250 families.



Employee Engagement

ISHANYA FOUNDATION



Initiative driven by Pani Foundation:

From DFPCL K1 and K8 Taloja, 43 employees were participated in the **Mahashramdaan** event at Jawalarjun Village on 1st May 2019.

DFPCL employees done Mahashramdaan by creating ~400 running metre farm bund. For this farm bund participant created around 80 trenches having size of 2M width and 0.30-0.45m depth. These trenches will hold more than 2 lakh lit of water.