

#### DFPCL-K1/EHS/Env/2020-21/27

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 for NPK Fertilizer Manufacturing Unit 6 Lakhs MTPA Project vide no. C F NO J-11011/320/2012-IA II(I) dt 12.10.2015.

Sub: Half yearly Environmental Clerance Compliance report.

Dear Sir,

Please find enclosed the half yeraly EC compliance report of **NPK Fertilizer Manufacturing** 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, 1<sup>st</sup> 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 SHE	<u>ET</u>
1		Project type: River - valley/ Mining / Thermal/ Industry / Nuclear/ Other (specify)	Industry
2		Name of the project	Expansion of NPK Fertiliser Manufacturing Unit at DFPCL Complex, K-1 to K-5, MIDC Industrial Area, District Raigad, Maharashtra by M/s Deepak Fertilizers and Petrochemicals Corporation Ltd.
3			EC granted for for NPK Fertilizer Manufacturing Unit 6 Lakhs MTPA Project vide no. C F NO J-11011/320/2012-IA II(I) dt 12.10.2015
4		Location	
	a.		Raigad
			Maharashtra
_		Latitude/longitude	19°03'57.6"N/73°07'58.8"E
5	a.	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
			Same as above
6		Salient features	Approxima A
		of the project of the environmental management plans	Annexure-A Annexure-B
7		Break up of the project area	Authorate D
			NA, (MIDC Land)
<u> </u>			NA 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.	·	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.  Project cost as originally planned and subsequent revised estimates and the year of	360 Crores
		price reference	300 Crores
		Break-up.	Year 2019-20 for Plot K-1 to K-8.  1)Rs. 5 lakhs forInstallation of Weather Monitoring Station  2)Rs. 41 lakhs for Plantation and Maintenance of Tree plantation  3)Rs. 40 lakhs for Adequacy study for ETP and APCD  4)Rs. 27 lakhs for ETP1 improvements  5)Rs. 8 lakhs for AMC for CEMS  6)Rs. 0.5 lakhs for AMC for AAQMS  7)Rs. 0.7 lakhs AMC for PM Analyzer  8)Rs. 1.5 lakhs for Spare for CFB CEMS Analyser  9)Rs. 13 lakhs for Spare of CEMS  10)Rs. 16 lakhs for Spare for AAQMS
		Benefit cost ratio/Internal rate of Return and the year of assessment	-
		Whether ( c ) includes the Cost of environmental management as shown in the	Yes
		Actual expenditure incurred on the project so far.  Actual expenditure incurred on the environmental management plans so far	
10		Forest land requirement	
¯		The status of approval for diversion of forest land for non-forestry use	NA, (MIDC Land)
<u> </u>		, ,	NA, (MIDC Land)
11		The status of clear felling in Non-forest areas (such as submergence area of reservoir,	NA, (MIDC Land)
		approach roads), it any with quantitative information	
12		Status of construction	
		Date of commencement ( Actual and/or planned)	Year 2013
			Year 2017
13		·	NA
14	a.	, ,	NA
		Occasions, if any Date of site visit for this monitoring report	NA
15		5 1	NA NA
12		plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits )	IVA
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# CHAPTER-V ENVIRONMENTAL MANAGEMENT PLAN

#### 5.0 Objective

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

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

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

# 5.1 Environmental Management Plan

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

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

# 5.2 Construction Phase

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

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

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

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

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

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

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

# 5.3 Post Construction Phase

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

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

# 5.3.1 Air Environment

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

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

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

## a) Point Source (Boiler) Emissions

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

Particulate matter,  $SO_2$  and NOx are the major emissions from the plant. However as the fuel proposed to be used for boiler being furnace oil and purge gas Particulate matter envisaged is negligible, and for proper dispersion of  $SO_2$  and NOx into surrounding environs; stack height has been maintained as per the existing norms. The details of the stack height calculations are given in **Table 5.1**.

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

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

Table 5.1

Details of Stack height calculation for Boiler and DG

Boiler	Specifications
Capacity	30TPH ·
Fuel Consumption	52 TPD furnace oil and 12 TPD Purge gas
Sulphur %	0.35% furnace oil
Sulphur dioxide content	52000*0.035*2/24 = 151.7 kg/hour
Stack height as per MoEF	14 (SO <sub>2</sub> kg/hr) <sup>0.3</sup>
Stack Height H meters	14(151.7) <sup>0.3</sup> = 63.15 m
proposed stack height	63.5 m
Particulate matter control system	Cyclone and programmable Logic Control -
	Supervisor Control and Data Acquisition
	System.(PLC-SCADA) based system.
DG set	
Capacity	75 KVA
Stack height as per MOEF	H=h+0.2 √KVA
Stack height H meters	Height of building +0.2√75 KVA = 1.73m or
	say 2 meters

# b) Non Point source (Fugitive) emissions

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

Table 5.2
Control measure proposed for controlling Fugitive emissions

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

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### 5.3.2 Air Quality Monitoring

### a) Stack Gas Monitoring

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

#### b) Ambient Air Quality Monitoring

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

#### 5.4 Water Environment

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

Table 5.3
Wastewater Generation Details— m³/day

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

#### 5.4.1 Effluent Treatment Plant Details

### 1. Details of Proposed IPA plant

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

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

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

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

# 2. Details of Existing Effluent Treatment Plant of Parent Organization

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

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

# a) Phosphate removal

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

# b) Disassociation of ammonia

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

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

# c) Ammonia stripping

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

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

# d) Nitrate –N and Nitrite –N removal

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

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

# e) Polishing/aeration

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

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

Table 5.4
Existing Treatment Facilities

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

Table 5.5

Wastewater Characteristics – Before & After Treatment

S.	Parameters	Units		Before	After	
No	-SEx 3		Process, washes, etc	CT, Boiler, DM	Domestic & Process	Range
1	PH		6.0-7.0	6.0-7.0	6.5-8.0	5.5 to 9.0
2.	Suspended solids	Mg/I	99	21	147	< 100
3	BOD	Mg/I	146	18	507	<100
4	COD	Mg/I	247	23	845	<250
5	Oil & Grease	Mg/I	<10	<5	<5	<10
6	TDS	Mg/I	697	-	831	<800
7	Amm. Nitrogen	Mg/I	94	-	-	<50
8	KJ Nitrogen	Mg/I	247	-	-	-
9	Phosphates	Mg/I	99	-	-	<1

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

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# 3) Domestic Sewage Treatment Plant

The sanitary sewage wastewater and part of process wastewater containing biodegradable matter which is around 3.864 m3/day will be treated in the existing sewage treatment plant (STP) of capacity 168 m³/day. The STP comprises aeration tanks followed by clarifier. The existing sewage treatment plant consists of settling tanks, aeration tanks, and clarifiers.

# 5.4.2 Monitoring of Waste Treatment

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

# 5.4.3 Storm Water Drainage

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

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

#### 5.5 Noise level management

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

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

By selecting low noise prone equipment

receiver and the source;

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reduces in inverse proportion to the square of the distance between the

Provision of separate cabins for workers/operators; and

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

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

# 5.6 Solid Waste Management

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

Table 5.6
Solid Waste Generation & Disposal

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

# 5.7 Green Belt Development

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

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

### 5.7.1 Plant Species for Greenbelt

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

- \* Fast growing type
- Should have a thick canopy cover
- Should be perennial green
- Native origin

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Should have a large leaf area index.

#### 5.7.2 Design of Green Belt

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

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

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

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

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Table 5.7
Plant Species Recommended For Reduction Of Noise Level

S. No	Scientific Name	Common Name
1 .	Azadirachta indica	Neem
2	Aegle mamelos	Bel
3	Calbezia trocera	Dhala sirisa
4	Carissa carandas	Karaunda
5	Peltophorum inerme	Perungondrai
6	Saraca indica	Asoka
7	Syzygium cumini	Zaman
8	Tamarindus indica	Imli
9	Pongamia pinnata	Beng
10	Cassia siamia	Chakundi

Table 5.8
Plant Species Recommended For Protection Against Gases And Particulates

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

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Table 5.8
Suggested Plant Species For Green Belt Development

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

Table 5.10
Suggested Plant Species For Road Side Plantation

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

# 5.8 Industrial Safety, health & Hygiene:

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

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

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

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

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#### 5.9 Environmental Laboratory Equipment

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

**Table 5.11** List of Equipment of Environmental Laboratory

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

\$18) Bhagavathi Analeabs in a Hydarabadi

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# 5.10 Post Project Environmental Management

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

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

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

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# **Environmental Management Cell**

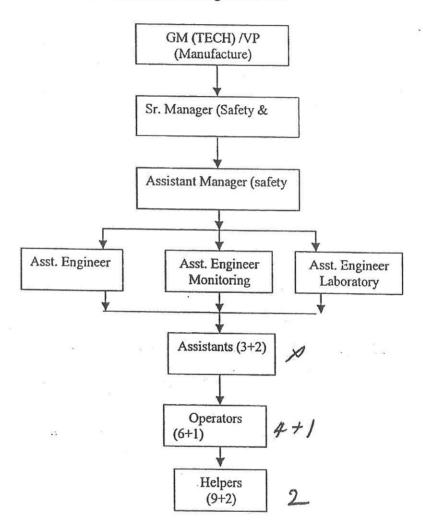


Figure 5.3 Environmental Management Cell





# ENVIRONMENTAL MANAGEMENT PLAN

#### 8.1 STRUCTURE OF EMP

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

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

Environmental Management Plan (EMP) is the key to ensure a safe and clean environment. The desired results from the environmental mitigation measures proposed in the project may not be obtained without a management plan to assure its proper implementation and function. The EMP envisages the plans for the proper implementation of mitigation measures to reduce the adverse impacts arising out of the project activities. EMP has been prepared addressing the issues like:

- Pollution control/mitigation measures for abatement for the undesirable impacts caused during the construction and operation stages.
- Details of management plans (Landscape plan, storm water management plan, sewage management plan, effluent management plan, hazardous waste management plan etc.).
- Institutional set up identified/recommended for implementation of the EMP.
- Post project environmental monitoring programme to be undertaken (Chapter 5).
- Expenditures for environmental protection measures and budget for EMP.

# 8.2 PROPOSED ENVIRONMENTAL MITIGATION MEASURES

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

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

#### **Construction Phase**

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





The major culprit during any construction activity is the fugitive emission that is released from the construction activity and the vehicular movement during the construction. Dust control is a major issue during the construction phase along with the waste water generated from the construction and the domestic sewage generated by the construction camp, oil and material spillages during the handling and the transportation of the construction material and the solid waste generated during the construction.

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

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

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

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

The details of the impacts resulting due to different activities during construction are tabulated below phases are given in Chapter 5. Based on these mitigation measures, Environmental Management Plan (EMP) is drafted. The environmental mitigation measures for construction phases are briefly listed in **Table 8.1**.

**Table 8.1: Proposed Environmental Mitigation Measures** 

S. No.	Component	Impact	Mitigation Measures	
Constr	uction Phase:			
1.	Air	Generation of Dust, CO <sub>2</sub> , SO <sub>X</sub> , NO <sub>x</sub> (Short term for a period of 6 months and Local)	<ul> <li>Covering of construction material with sheets while transportation and storage.</li> <li>Use of water sprinklers.</li> <li>Personal Protective equipment for labours.</li> <li>Project site is inside the existing industrial complex. No impact on general public.</li> </ul>	
2.	Noise and Vibration	<ul> <li>Increase in the noise levels due to movement of vehicles and construction activities.</li> <li>Vibration due to movement of vehicles and construction activities.</li> <li>(Short term for a period of 6 months and Local)</li> </ul>	<ul> <li>Proper service and maintenance of machines and vehicles to control noise.</li> <li>Personal protective equipments for labours.</li> <li>The impact due to vibration will be insignificant.</li> <li>Project site is inside the existing industrial complex. No impact on general public.</li> </ul>	





S. No.	Component	Impact	Mitigation Measures
3.	Water	Water pollution due to disposal of sewage will be curtailed with the existing effluent treatment plant. (Short term, Minor, Local)	<ul> <li>Proper sanitation facilities in the construction site</li> <li>Treatment of sewage in existing ETP having a capacity of 5040 KLD within DFPCL premises . This is a design capacity for 12000 persons. Presently only 6000 people are using the facility.</li> </ul>
4.	Land	<ul> <li>Removal of top soil and change in soil quality.</li> <li>Soil pollution due to discharge of sewage and solid waste onto land will be curtailed with the existing effluent treatment plant.</li> <li>No change in Land use pattern as project site is inside the existing industrial complex.</li> <li>(Minor and Local)</li> </ul>	<ul> <li>Use of removed soil for landscaping purposes, improving aesthetics.</li> <li>Sanitation facilities in the construction site as well as labour camps.</li> <li>Treatment and disposal of sewage and solid waste as per MPCB guidelines.</li> </ul>
5.	Biological Flora Fauna	Disturbance due to increase in noise.     (Short term, Minor and Local)	Green belt development.
6.	Socio- Economic	Employment of construction workers (Direct, Positive)	People from the study area to be employed as far as possible
7.	Occupational Health and Safety	<ul> <li>Auditory ailment due to noise will be prevented.</li> <li>Dust emission (Short term, Minor and Local</li> </ul>	<ul> <li>The use of personal protective equipments will be made stringent.</li> <li>Water sprinkling system for dust generating area.</li> </ul>

# **Operation Phase:**

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

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

		• Increase in the air • Use of cyclonic Separators and
		pollutant concentration Venturi scrubbers to control
1	Air	will be addressed using dust and fugitive emissions
1.	7 111	cyclonic Separators and within the limits of MPCB
		Venturi scrubbers regulations
		Personal protective equipments



S. No.	Component	Impact	Mitigation Measures
¥		Dust generation possibility is minimum as raw materials handled are liquids and product will be bagged in the existing bagging plant  (Direct,Local,sustainable)	for labours.  Strict implementation of Hazardous Waste Rules Act 1989, while storage/handling/transportation of hazardous substances.  Regular monitoring of emissions. Provide high efficiency scrubbers.
2.	Noise and Vibration	<ul> <li>Increase in the noise levels will be minimised by using Equipments with noise level below 80db</li> <li>Vibration during operation of manufacturing unit. (Direct, Minor, Local, sustainable)</li> </ul>	<ul> <li>Equipments with noise level below 80db only will be used.</li> <li>Proper service and maintenance of machines to control noise.</li> <li>Personal protective equipments for employees like antivibration gloves and ear plugs.</li> <li>Project site is inside the existing industrial complex. No impact on general public.</li> <li>By selecting low noise prone equipment</li> <li>By isolating the noise prone unit from the working personnel's continuous exposure</li> <li>By administrative control The administrative control would have a major role to monitor noise, take remedial measures and ensure that no plant personnel are over exposed to noise.</li> <li>The use of damping material such as thin rubber/lead sheet for wrapping the work places like turbine halls, compressor rooms etc;</li> <li>Shock absorbing techniques should be adopted to reduce vibration impact;</li> <li>Efficient flow techniques for noise associated with high fluid velocities and turbulence should be used (like reduction in noise generated by control levels in both gas and liquid systems achieved by reducing system pressure to as low as possible);</li> <li>All the openings like covers, partitions should be acoustically sealed;</li> </ul>



S. No.	Component	Impact	Mitigation Measures
		Insignificant on groundwater.	<ul> <li>Inlet and outlet mufflers should be provided which are easy to design and construct;</li> <li>Ear plugs will be provided to workmen working near high noise generating sources;</li> <li>Noise levels should be reduced by the use of absorbing material on roof walls and floors;</li> <li>Provision of separate cabins for workers/operators</li> <li>Proper sanitation facilities in the plant area.</li> <li>Treatment of wastewater in existing ETP within DERGIA</li> </ul>
3.	Water	<ul> <li>Degradation of quality due to discharge of sewage and untreated water will be prevented.</li> <li>Discharge of effluent from the manufacturing unit.         (Indirect, Negative, Minor, Local, sustainable)     </li> </ul>	existing ETP within DFPCL area.  The effluent generated from the manufacturing unit will be reused for dilution of phosphoric and sulphuric acids. Effluent discharge, if any due to cooling tower blow down, domestic effluent etc shall be treated in the proposed RO with a capacity of 550 m³/hr. There will be no generation of effluent from the proposed project.
4.	Land	<ul> <li>Pollution due to discharge of sewage waste will be prevented.</li> <li>Dust generation possibility is minimum as raw materials handled are liquids and product will be bagged in the existing bagging plant (Direct,Negative,Minor,Local,sustainable)</li> </ul>	<ul> <li>Proper sanitation facilities in the plant area.</li> <li>Proper treatment and disposal of sewage and solid waste to CETP as per the guidelines of MPCB in existing ETP within DFPCL premises. This has a design capacity for 1200 persons. Presently only 600 people are using the facility.</li> </ul>
5.	Biological • Flora • Fauna	<ul> <li>Disturbance due to increase in noise. (Minor,Direct,Local ,sustainable)</li> </ul>	<ul> <li>Operational activities of heavy machineries and transportation only in daytime.</li> <li>Green belt development.</li> </ul>
6.	Socio- Economic	Employment to local people (Positive, Local)	People from the local area to be employed as far as possible
7.	Occupational Health and Safety	<ul> <li>Auditory ailment due to noise generated from the production unit will be minimised by using Equipments with noise level below 80db</li> </ul>	<ul> <li>Equipments with noise level below 80db only will be used.</li> <li>Wearing of personal protective equipments like gas masks, ear muffs etc. will be strictly enforced.</li> </ul>



S. No.	Component	Impact	Mitigation Measures
		Accidents due to handling/storage/ transportation of hazardous materials. (Local and sustainable)	<ul> <li>Training/awareness programme about the handling / storage / transportation of hazardous materials.</li> <li>Signage's showing the hazardous nature and the method of handling near storage / handling area of all the hazardous materials.</li> <li>First aid training for chemical /fire hazard related accidents.</li> </ul>

# 8.3 ENVIRONMENTAL MANAGEMENT PLANS

#### 8.3.1 Rainwater Harvesting System

Rainwater harvesting system was not installed in past as ground water table is high. However, DFPCL is making rooftop water collecting system. Reservoir for rainwater is ready. Connecting pipelines are being laid. System shall be ready before 2014 monsoon. For proposed plant there shall be separate rooftop collection system.

# 8.3.2 Air Pollution Management Plan

In the manufacturing process, dust is emanated from the cooler and dryer compartments. The dust laden air originating from cooler and dryer compartments are treated separately.

A series of gas scrubber connected to the different equipments for a double purpose will be used: to retain as much as possible all recoverable products, and to minimize emissions (especially ammonia, fertilizer dust and fluorine) to the atmosphere. The scrubbing liquid will be diluted phosphoric / sulphuric acids or water, depending on the scrubber. The scrubbing system has a first scrubbing step composed of a Venturi-Type fume prescrubbing for the granulator. The prescrubbing liquid is the result of mixing fresh phosphoric acid and sulphuric acid with scrubbing liquid coming from scrubber tank. From the granulator prescrubber, the liquid is sent to the pipe reactor tank, where the concentration of  $P_2O_5$  required for feeding the Pipe Reactor is adjusted with additional fresh concentrated phosphoric acid. The prescrubbing step objective is to retain most of the ammonia and dust leaving from the granulator.

Occasional additions of sulphuric acid can be done to the scrubber tank. The gases coming out of the prescrubber will be sent to the ventury type scrubber, where they are using as scrubbing liquid fresh phosacid diluted with the slightly polluted water coming from tail gas scrubber. The objective of this scrubber is to complete the recovery of ammonia and dust. From the same common tank the scrubbing liquid is also recirculated to the venture dryer scrubber, where the dust which has been not retained by the dryer cyclones is recovered; and the venture cooler and dedusting scrubber where a part of the gases coming out from the cooler cyclones are jointly washed with the dedusting gases coming from cyclones.

It is recommended to install final scrubber (packed column) for final scrubbing. All exhaust gases from the above scrubber shall be sent to the final washing step: the Tail Gas Scrubber,





which shall include a multi-spraying system in the horizontal feeding arm and a packed section in the vertical tower. Gases are washed with water, to avoid the fluorine emissions created during phosphoric acid washing, as well as to recover dust and NH<sub>3</sub>. The first washing consists of a duct multi-spraying system and uses the water advanced from the second one. A pH controlling system, using sulphuric acid as acidic media, assures the best pH to achieve both ammonia and fluorine recovery. The second step includes a packed section, to efficiently complete the dust, ammonia and fluorine removal. Scrubbing liquid is basically composed of water, which is sprayed on top of the packing. Scrubbed liquor shall be re-circulated to the process.

Gases, after washing, are finally released to the atmosphere through a common stack. The last section of TGS is equipped with a demister to avoid droplet entrainment. The liquid from the tail gas will contain water, a small quantity of ammonia, fertilizer dust and fluorine retained during the scrubbing. This liquid will be recovered into the scrubber tank; where with the addition of phosphoric acid will constitute the scrubbing liquid. The process flow diagram for dust and other gases scrubbing is shown in **Figure 8.1**.





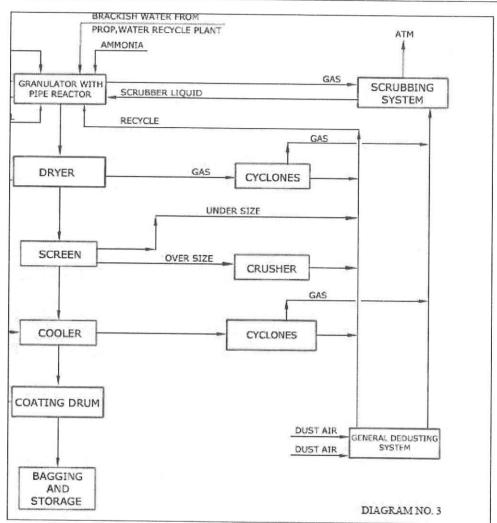


Figure 8.1: Process Flow Diagram for Scrubbing

#### 8.3.3 Storm Water Management Plan

DFPCL plant area already has a storm water drainage system. It is made up of partially covered drains with brick masonry work. The outlet of the storm water drainage is connected with the Kasardi River.

#### 8.3.4 Sewage Management Plan

Around 1-2 m³/h of domestic effluent is expected to be generated during the construction and operation phases. The generated sewage will be collected and the waste water will be treated in the ETP of capacity 5000 KLPD.

# 8.3.5 Effluent Management Plan

The wastewater generated during the maintenance of the expansion unit like cleaning/servicing, will be treated in the proposed RO system of 550 m³/Day capacity. The proposed unit shall be designed for zero liquid effluent discharge. Reject of RO shall be recycled to NPK unit. Treated effluent from RO shall be used in the cooling tower make up & domestic





use. The proposed NPK Granulation project will reduce overall effluent discharge by approx. 450 m³/day i.e. by 12% & New project will not require additional fresh water. Thus proposed project will result in conservation of natural resources and green environment. Figure 8.2 shows the Effluent reduction flow chart for the proposed NPK effluent treatment process and Figure: 8.3 Water balance of the entire complex including the proposed NPK Plant.

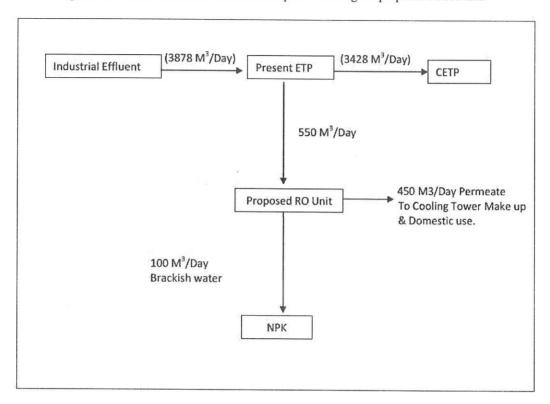


Figure 8.2: Effluent Reduction flowchart for the Proposed Unit



Environment Clearance for NPK Fertilizer Manufacturing Unit 6 Lakhs MTPA dated 12.10.2015 C F NO J-11011/320/2012-IA II(I) Government of India, Ministry of Environment, Forest and Climate Change (I.A. Division), Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi - 110003.

SN	Specific Conditions	Status of compliance as on 30/09/2020
i)	All the conditions stipulated in environmental clearance J-11 011/218/2004-IA (II) dated 24 <sup>th</sup> February, 2006 and SEAC-2010/CR.656/TC.2 dated 11 <sup>th</sup> May, 2011 accorded for the existing projects shall be implemented.	Conditions stipulated in the environment clearance of IPA & GT 3,4 &5 are complied with. Six monthly status on their compliance is sent to MOEF, last such report was sent on 29 <sup>th</sup> May 2020.
ii)	The project proponent shall follow guidelines and policies of the State Government w.r.t. The river regulation zone for conservation of river. State Pollution Control Board shall issue the consent to establish/consent to operate after complying the guidelines for the location of unit from river.	RRZ policy is not applicable to our site.
iii)	Ammonia bearing fumes from the reactor and granulator of the Complex Fertilizer shall be scrubbed. Scrubbing shall have interlocking system with main plant.	Two stage Scrubber is provided for scrubbing of fumes from reactor & granulator with interlock in DCS with main plant.
iv)	The gaseous emissions (SO <sub>2</sub> , NOx, NH <sub>3</sub> , HC and Fluoride) and particulate matter from various process units shall conform to the norms prescribed by the CPCB/SPCB from time to time. At no time, the emission levels shall go beyond the prescribed standards. Air emission shall be monitored online (24x7) by the Company. 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. Stack emissions shall be monitored regularly.	The gaseous emissions PM, Ammonia and Fluoride from NPK plant are within the stipulated limits.NOx is not emitted from NPK stack. Hydrocarbon and SO2 are not emitted from NPK stacks however this is also monitored through MOEF approved third party laboratory in ambient air. As per the recent guidelines from CPCB actions have been installed the sensors for PM, Fluoride and Ammonia and these are hooked up to MPCB & CPCB portal. Stack emissions are monitored quarterly through MOEF approved third party laboratories. Three continuous monitoring AAQM stations installed and connected to MPCB porta these stations monitor various parameter like PM10, PM2.5 etc are installed and operational as per NAAQMS norms. All care is taken to keep the pollution control devices operational. All the parameters are also periodically through MoEF approved third party lab. (Annexure - 1)
v)	Ambient air quality data shall be collected as per NAAQES standards notified by the the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009. The levels of PM10 (Urea dust), SO2, NOx; Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal office of CPCB and the Maharashtra Pollution Control Board (MPCB), Calibration of continuous ambient air quality monitoring stations shall be conducted quarterly.	Three continuous monitoring AAQM stations connected MPCB portal. These station monitors various parameters like PM10 & PM 2.5, SO <sub>2</sub> , NO <sub>2</sub> & NH <sub>3</sub> & CO. The results of the monitoring are displayed near main gate of the company. These are also uploaded on the company's website.  Six monthly reports are also seen to regional office of MOEF & MPCB.  Calibration of continuous ambient air quality monitoring stations is conducted quarterly.  Ozone and hydrocarbon are monitored through the MOEF approved third party by sampling.

SN	Specific Conditions	Status of compliance as on 30/09/2020
vi)	In plant control measures for checking fugitive emissions	In NPK plant all the chemicals are stored in closed
	from all the vulnerable sources shall be provided. Fugitive	containers and transferred through the pipelines. Solid
	emissions shall be controlled by providing closed storage,	raw material is handled through bucket elevators. Fugitive
	closed handling & conveyance of chemicals / materials,	emissions in the work zone environment and storage area
	multi cyclone separator and water sprinkling system.	is monitored periodically through the MOEF approved
	Fugitive emissions in the work zone environment, product,	
	raw materials storage area etc. shall be regularly	norms.
	monitored. The emissions should conform to the limits	
	stipulated by the MPCB.	
vii)	The gaseous emissions from DG set shall be dispersed	The gaseous emission from DG sets is dispersed through
,	through adequate stack height as per CPCB standards.	adequate stack height and acoustic enclosure has been
	Acoustic enclosure shall be provided to the DG sets to	provided.
	mitigate the noise pollution.	
viii)	Unit shall never store ammonia more than 10,000 Ton at	Noted.
	the site. If eventuality arises and it needs to be emptied,	
	the additional 3000 T ammonia storage to be kept standby	
	and the rest of NH3 to be transported to JNPT site, where	
	they store Imported ammonia.	
ix)	Total water requirement shall not exceed 500 m3/day for	Complied.
'	the proposed unit and met from treated / recycled water.	·
x)	Industrial effluent shall be treated in effluent treatment	Complied.
	plant (ETP) and recycled back in the process	
<u></u>		
xi)	No effluent shall be discharged outside the premises and	We have developed better method of utilization of the RO
	'Zero' effluent discharge shall be ensured.	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.
xii)	Process effluent/any wastewater shall not be allowed to	There are separate drains for process effluent and storm
^,	mix with storm water. Storm water drain shall be passed	water. Pond has been provided for the storm water drain.
	through guard pond.	
xiii)	All the effluents after treatment shall be routed to a	Total treated effluent is equalized for final control in a RCC
	properly lined guard pond for equalization and final	tank. Automatic continuous monitoring system for flow
	control. In the guard pond, automatic monitoring system	and relevant pollutants that is pH, ammoniacal nitrogen,
	(24x7) for flow, and relevant pollutants (i.e. pH,	nitrate nitrogen, BOD, COD, TSS and Fluoride are provided
	ammoniacal nitrogen, nitrate nitrogen etc.) shall be	and these are connected to MPCB & CPCB portals. High
	provided with high level alarm system. Monitoring Data to	level alarm systems has been provided to these
	be provided to respective Regional Office of the MoEF and	equalisation tanks.
	Company's website.	

SN	Specific Conditions	Status of compliance as on 30/09/2020
xiv)	Regular monitoring of ground water by installing	Ground water montoring report is submitted to Regional
	piezometric wells around the guard pond and sludge	office MOEF,CPCB and MPCB.
	disposal sites shall be periodically monitored and report	
	shall be submitted to the concerned Regional Office of the	
	Ministry, CPCB and SPCB	
xv)	The company shall construct the garland drain all around	Garland drain has been constructed all around the project
	the project site to prevent runoff of any chemicals	site to prevent runoff of any chemicals containing waste
	containing waste into the nearby water bodies. Effluent	into the nearby water bodies. The effluent is treated in
	shall be properly treated and treated wastewater shall	ETP ensuring compliance with prescribed parameters.
	conform to CPCB standards	
xvi)	The company shall obtain Authorization for collection,	Consent to operate comprises of HW requirements.
	storage and disposal of hazardous waste under the	Fire detection, fire protection and fire fighting
	Hazardous Waste (Management, Handling and Trans-	arrangements have been provided in manufacturing
	Boundary Movement) Rules, 2008 and amended as on	process and in material handling areas. Company has a
	date for management of Hazardous wastes. Measures	dedicated fire team and regular mock drills are conducted.
	shall be taken for fire fighting facilities in case of	Company also has two fire tenders.
	emergency.	
xvii)	Spent catalysts and used oil shall be sold to authorized	There is no catalysts used in NPK plant and used oil is sold
	recyclers/re-processors only	to authorized recyclers/re-processors only.
xviii)	The Company shall strictly comply with the rules and	MSIHC rules are followed strictly, All Transportation of
	guidelines under Manufacture, Storage and Import of	Hazardous Chemicals is as per the Motor Vehicle Act
	Hazardous Chemicals (MSIHC) Rules, 1989 as amended	(MVA), 1989.
	time to time. All Transportation of Hazardous Chemicals	
	shall be as per the Motor Vehicle Act (MVA), 1989	
xix)	Remote operated valve placed on NH3 line to avoid	Remote operated valve is installed on NH3 line. Equipment
	leakage/equipment check shall be performed to ensure	checks are performed to avoid the leakages remote
	that remote operated valve (ROV) is all time is functional.	operated valve is all time functional.
xx)	The company shall strictly follow all the recommendations	Recommendations mentioned in CREP are followed.
	mentioned in the Charter on Corporate Responsibility for	
	Environmental Protection (CREP).	
xxi)	The unit shall make the arrangement for protection of	Adequate Fire fighting system has been provided as per
	possible fire hazards during manufacturing process in	the TAC norms which is inspected as per the Maharashtra
	material handling. Fire fighting system shall be as per the	Fire and Life Safety Measures Act. Inspection Report in
	OISD 117 norms.	Form B will be submitted in January and July every year to
		Director - Maharashtra Fire Services.
xxii)	Occupational health surveillance of the workers should be	Six monthly periodic medical check-up is carried out of all
	done on a regular basis and records maintained as per the	workers and records are maintained in Form-7 as per the
	Factories Act.	Factories Act.

SN	Specific Conditions	Status of compliance as on 30/09/2020
xxiii)	Green belt shall be developed in 33 % of the plant area.	Complied with.
	Selection of plant species shall be as per the CPCB	Around 31 % of plot area is developed as Green belt.
	guidelines.	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.
xxiv)	Provision shall be made for the housing for the	Complied with, residential facility was not needed during
	construction Labour within the site with all necessary	the construction phase as the construction labour were
	infrastructure and facilities such as fuel for cooking,	local from local areas.
	mobile toilets, mobile sewage treatment plant, safe	
	drinking water, medical health care, creche etc. The	
	housing may be in the form of temporary structure to be	
	removed after the completion of the project. All the	
	construction wastes shall be managed so that there is no	
	impact on the surrounding environment.	
SN	General Conditions	Status of compliance as on 30/09/2020
i)	The project authorities shall strictly adhere to the	Complied with as per CTO.
	stipulations made by the State Government and	
	Maharashtra Pollution Control Board.	
ii)	No further expansion or modifications in the plant shall be	Noted.
	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.	
iii)	The locations of ambient air quality monitoring stations	Three continuous monitoring AAQM stations are installed
	shall be decided in consultation with the State Pollution	and connected to MPCB portal.
	Control Board (SPCB) and it shall be ensured that at least	
	one stations is installed in the upwind and downwind	
	directions as well as where maximum ground level	
	concentrations are anticipated.	
j. A	The everall noise levels in and around the plant area shall	Deriodic noise manitoring by third porty (MACE Approved)
iv)	The overall noise levels in and around the plant area shall	Periodic noise monitoring by third party (MoEF Approved)
	be kept well within the standards by providing noise	laboratory is carried out near main gate, IPA gate and ANP
	control measures including acoustic hoods, silencers,	gate; and ambient noise level is within the standards
	enclosures etc. on all sources of noise generation. The	prescribed.
	ambient noise levels shall conform to the standards	Acoustic enclosures are provided to DG sets.
	prescribed under Environment (Protection) Act, 1986	(Annexure - 2)
	Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	

SN	General Conditions	Status of compliance as on 30/09/2020
v)	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Rain water harvesting system is provided at WNA 3 & 4 plants.
vi)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. training to all employees on handling of chemicals shall be imparted.	Training is imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees are undertaken on regular basis.
vii)	Usage of Personnel Protection Equipments (PPEs) by all employees / workers shall be ensured.	Complied with.
viii)	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied with. Environment protection measures and recommendations given in EIA are complied with.
ix)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	CSR activities are carried out through Ishanya Foundation Trust, set up by the company for rural development, women empowerment, health & education.  (Annexure - 3)
x)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	1. Tree plantation in the MIDC area is carried out. 2. Beautification on the part of Kasardi river near our complex is planned as part of community development. 3. 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 which is located near Dombivali which approximately 15 kms away from our site.

SN	General Conditions	Status of compliance as on 30/09/2020
xi)	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.
xii)	As proposed, company shall earmark sufficient funds toward capital cost and recurring cost respectively to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Budget for Environment department for the year 2019-20 was of Rs 16 lacs and for OCEMS was 14 Crores. The fund so earmarked for environment management/pollution control measures is not diverted for any other purpose.
xiii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions / representations, if any, were received while processing the proposal.	Complied with. Advertisement for availability of EC copy on MoEF website was published in local newspaper 'Krushiwal' date 21.10.2015 for any suggestions/representations.
xiv)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the Maharashtra Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Six monthly compliance reports are being sent to regional office of MOEF and MPCB. Last report was sent on 29 <sup>th</sup> May 2020. Copy of the same uploaded on the company's web-site.
xv)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	The environmental statement for each financial year ending 31st March in Form-V as is being submitted online to the MPCB before 30th September. Form V is also being uploaded on company website. (Form V was submitted online on 28.09.2020 for financial year 2019-20).

SN	General Conditions	Status of compliance as on 30/09/2020
xvi)	The project proponent shall inform the public that the	Complied with. Advertisement for availability of EC copy
	project has been accorded environmental clearance by the	
	Ministry and copies of the clearance letter are available	'Krushiwal' date 21.10.2015 for any
	with the SPCB/Committee and may also be seen at	suggestions/representations.
	Website of the Ministry at http://envfor.nic.in. This shall	
	be advertised within seven days from the date of issue of	
	the clearance letter, at least in two local newspapers that	
	are widely circulated in the region of which one shall be in	
	the vernacular language of the locality concerned and a	
	copy of the same shall be forwarded to the concerned	
	Regional Office of the Ministry.	
xvii)	The project authorities shall inform the Regional Office as	Complied with.
	well as the Ministry, the date of financial closure and final	
	approval of the project by the concerned authorities and	
	the date of start of the project.	
xviii)	The Ministry may revoke or suspend the clearance, if	Complied with.
	implementation of any of the above conditions is not	
	satisfactory.	
xvix)	The Ministry reserves the right to stipulate additional	Noted.
	conditions , if found necessary. The company in a time	
	bound manner will implement these conditions.	
xvx)	The above conditions will be enforced, inter alia, under	Noted.
	the provisions of the Water (Prevention and Control of	
	Pollution) Act, 1974, the Air (Prevention and Control of	
	Pollution) Act, 1981,the Environment (Protection) Act,	
	1986 and rules there under, Hazardous Wates	
	(Management, Handling and Transboundary Movement)	
	Rules, 2008 the Public Liability Insurance Act, 1991 along	
	with their amendments and rules.	

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

<b>Nonitoring Reports</b>



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

Customer Address	: Taloja Plant Plot K-1,	MIDC Industrial Area, P	.O. Taloja Dist. Raigad 41	0208 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											
Camarala Trusa	Dunnana Can (Ctanta)	C	N=+=1 (1==1:=)	1 1141							

 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

	9					
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)	Nm³/hr		4632	
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm³	3	184.0	
			ppm		331.1	
	l=		kg/day		20.455	
			kg/ton of WNA		0.0766	3
5	Ammonia	IS 11255 (Part 6)	mg/Nm³	0.05	18.60	
			ppm		12.93	
	.3		kg/hr		0.0599	3

### Note:

Name of Organization

- 1. \* MDL Minimum Detectible Limit.
- 2. \*\* BDL Below Detectible Limit.
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- 4. This Test Report refers only to the sample tested.
- 5. The Complaint Register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*



CIN: U74999MH2003PLC142228



Name o	f Organization	: M/s. [	Deepak Fertilise	ers And	Petro	chemicals	Corporation	Limited.		
Custom	er Address	: Taloja	Plant Plot K-1	, MIDC	Indus	strial Area, I	P.O. Taloja	Dist. Raigad 41	0208 Ma	aharashtra
Custom	er Reference	: Work	Order no. 4800	0055893	B, Dat	ed 24.07.20	019			
Date	of Sampling	Sample R	Received Date	Analy	ysis (	Start Date		is Complete Date	Rej	oort on Date
1:	2.06.2020	13.	06.2020	1	13.06	.2020	16.	06.2020	1	6.06.2020
Sample	Type :	Process G	Gas (Stack)			Sampling	done by	: Netel (India)	Limited	
Stack Connected to : WNA - 2 Process Stack Diameter : 953 mm										
Samplin	ng Location :	WNA - 2 S	Stack			Sample Co	ode	: NIL/ST/06/20	0/002	
Sr. No.	Paramet	ers	Metho	d		Unit	MDL*	Results	S	Consent Limits
1	Temperature		IS 11255 (F	Part 3)		°C		60.0		
2	Velocity of Gas		IS 11255 (F	Part 3)		m/sec		2.07		
3	Volumetric Flow	Rate	IS 11255 (F	Part 3)		Nm³/hr		4738		
4	Oxides of Nitrog	en	IS 11255 (F	Part 6)	r	ng/Nm³	3	193.0		
						ppm		347.3		
	kg/day <b>21.946</b>									
					kg/t	on of WNA	202	0.0746	5	3
1	Ammonia		IS 11255 (F	Part 6)	r	ng/Nm³	0.05	22.00		
						ppm		15.30		

### Note:

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

3

Shraddha Kere Technical Manager

0.0725

\*\*\*End of Report\*\*\*

kg/hr



CIN: U74999MH2003PLC142228

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

Phone: 022-27607102 / 27607103 / 27606 016 / 20877101 • Website: www.netel-india.com • E-mail: ems@netel-india.com

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





Name o	f Organization	: M/s. [	Deepak Fertilise	ers And I	Petrochemicals	Corporation	Limited.		
Custom	er Address	: Taloja	Plant Plot K-1	, MIDC I	Industrial Area,	P.O. Taloja	Dist. Raigad 41	0208 Ma	aharashtra
Custom	er Reference	: Work	Order no. 4800	0055893	, Dated 24.07.2	019			
Date	of Sampling	Sample F	Received Date	Analy	ysis Start Date	Analysis Complete  Date		Rep	oort on Date
1;	2.06.2020	13.	06.2020	1	3.06.2020	16.	06.2020	1	6.06.2020
Sample	Type :	Process G	Gas (Stack)		Sampling	done by	: Netel (India)	Limited	
Stack C	onnected to :	WNA - 4 F	Process		Stack Dia	meter	: 953 mm		
Samplin	ng Location :	WNA - 4 S	Stack		Sample C	ode	: NIL/ST/06/20	0/003	
Sr. No.	Paramet	ers	Metho	d	Unit	MDL*	Results	S	Consent Limits
1	Temperature		IS 11255 (F	Part 3)	°C		130.0		
2	Velocity of Gas		IS 11255 (P	Part 3)	m/sec		2.16		
3	Volumetric Flow	Rate	IS 11255 (F	Part 3)	Nm³/hr		4085		
4	Oxides of Nitrog	en	IS 11255 (F	Part 6)	mg/Nm³	3	210.0		
					ppm		377.9		
kg/day <b>20.588</b>									
			12		kg/ton of WNA		0.0458	}	3

mg/Nm<sup>3</sup>

ppm

kg/hr

0.05

---

16.80

11.68

0.0477

### Note:

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- 2. \*\* BDL Below Detectible Limit.
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IS 11255 (Part 6)

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

Verified by:

Ammonia

Surekha Jamdar

Dy. Technical Manager

Issued by:

3

Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*



CIN: U74999MH2003PLC142228





			0171011	111011	110111110	111	<b>`</b>		
Name c	of Organization	: M/s.[	Deepak Fertilise	ers And F	etrochemicals	Corporation	Limited.		
Custon	ner Address	: Taloja	a Plant Plot K-1	, MIDC II	ndustrial Area,	P.O. Taloja	Dist. Raigad 41	0208 Ma	aharashtra
Custon	ner Reference	: Work	Order no. 4800	0055893,	Dated 24.07.2	2019			
Date	of Sampling	Sample F	Received Date	Analy	sis Start Date	Analys	is Complete Date	Rej	oort on Date
1	2.06.2020	13.	06.2020	1;	3.06.2020	16	.06.2020	1	6.06.2020
Sample	Type :	Process (	Gas (Stack)		Sampling	done by	: Netel (India)	Limited	
Stack C	Connected to :	CNA-1 Pr	ocess		Stack Dia	meter	: 75 mm		
Sampli	ng Location :	CNA-1			Sample C	ode	: NIL/ST/06/2	0/004	
Sr. No.	Paramet	ers	Metho	d	Unit	MDL*	Results	S	Consent Limits
1	Temperature		IŠ 11255 (F	Part 3)	°C		49.0		
2	Velocity of Gas		IS 11255 (F	Part 3)	m/sec		2.03		
3	Volumetric Flow	Rate	IS 11255 (F	Part 3)	Nm³/hr		29.76		
4	Oxides of Nitrog	en	IS 11255 (F	Part 6)	mg/Nm³	3	23.3		
					ppm		41.9		50
					kg/day		0.017		
5	Ammonia		IS 11255 (F	Part 6)	mg/Nm³	0.05	29.10		
					ppm		20.23		

### Note:

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

3

Shraddha Kere Technical Manager

0.0006

\*\*\*End of Report\*\*\*

kg/hr



CIN: U74999MH2003PLC142228

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

Phone: 022-27607102 / 27607103 / 27606 016 / 20877101 • Website: www.netel-india.com • E-mail: ems@netel-india.com





Name o	of Organization	: M/s.[	Deepak Fertilise	ers And I	Petroc	chemical	s Corporatio	n Limited.			
Custom	ner Address	: Taloja	a Plant Plot K-1	, MIDC I	ndusti	rial Area	, P.O. Taloja	Dist. Raigad 41	0208 Ma	aharashtra	
Custom	ner Reference		Order no. 4800								
	of Sampling	Sample F	Received Date	Analy	/sis St	tart Date	Analys	sis Complete Date	Rep	oort on Date	
1	2.06.2020	13.	06.2020	1	3.06.2	2020	16	.06.2020	1	6.06.2020	
Sample Type : Flue Gas (Stack) Sampling done by : Netel (India) Limited											
Stack C	connected to :	GT-5			S	Stack Dia	ameter	: 1500 mm			
Samplin	Sampling Location : HRSG 5 Sample Code : NIL/ST/06/20/005										
Sr. No.	Paramet	ers	Metho	d	U	Jnit	MDL*	Results	S	Consent Limits	
1	Stack Temperati	ure	IS 11255 (F	art 3)	c	°C		130			
2	Stack Gas Veloc	city	IS 11255 (F	art 3)	m/	/sec		10.86			
3	Volumetric Flow	Rate	IS 11255 (F	Part 3)	Nn	n³/hr		50838		[222]	
4	Sulphur Dioxide		IS 11255 (F	art 2)	mg,	/Nm³	3	BDL			
					р	pm		BDL			
	kg/day BDL										
5	Oxides of Nitrog	en	IS 11255 (F	art 7)	mg	/Nm³	3	45.0			
					р	pm		23.9		50	
					kg	/day		54.91			

mg/Nm<sup>3</sup>

ppm

kg/day

4

2.6

2.3

3.17

## Note:

- 1. \* MDL Minimum Detectible Limit.
- 2. \*\* BDL Below Detectible Limit.
- 3. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.

USEPA - 10A

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

Verified by:

Surekha Jamdar

Carbon Monoxide

Dy. Technical Manager

Issued by:

---

Shraddha Kere

**Technical Manager** 

\*\*\*End of Report\*\*\*



CIN: U74999MH2003PLC142228

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





			STACK	IVIOIN	HOKING	JN	EPUR	I		
Name o	f Organization	: M/s. [	Deepak Fertilise	ers And F	Petrochemica	als Co	rporation	Limited.		
Custon	ner Address	: Taloja	a Plant Plot K-1	, MIDC I	ndustrial Are	a, P.0	D. Taloja	Dist. Raigad 41	0208 Ma	aharashtra
Custon	ner Reference	: Work	Order no. 4800	055893	Dated 24.07	7.2019	9			
Date	of Sampling	Sample F	Received Date	Analy	sis Start Dat	te		s Complete Date	Rep	oort on Date
1	2.06.2020	13.	06.2020	1	3.06.2020		16.	06.2020	1	6.06.2020
Sample Type : Flue Gas (Stack) Sampling done by : Netel (India) Limited										
Stack C	onnected to :	GT-1			Stack D	iame	ter	: 1500 mm		
Samplii	ng Location :	HRSG 1			Sample	Code	e	: NIL/ST/06/20	0/006	
Sr. No.	Paramet	ers	Method	d	Unit	N	MDL*	Results	5	Consent Limits
1	Stack Temperati	ure	IS 11255 (P	art 3)	°C			138		11
2	Stack Gas Veloc	eity	IS 11255 (P	art 3)	m/sec			10.27		
3	Volumetric Flow	Rate	IS 11255 (P	art 3)	Nm³/hr			47147		
4	Sulphur Dioxide		IS 11255 (P	art 2)	mg/Nm³		3	BDL		
					ppm			BDL		
					kg/day			BDL		
5	Oxides of Nitrog	en	IS 11255 (P	art 7)	mg/Nm³		3	8.8		
					ppm			4.7		50
	3		kg/day			9.96				
6	Carbon Monoxid	е	USEPA -	10A	mg/Nm³		4	1.4		
					ppm			1.2		
					kg/day			1.58		

Note:

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

**Technical Manager** 

\*\*\*End of Report\*\*\*





			SIACK	IVIOIA	HOKING	JAL	FUR	A L		
Name o	f Organization	: M/s. [	Deepak Fertilise	ers And F	Petrochemica	als Corp	oration	Limited.		
Custom	ner Address	: Taloja	Plant Plot K-1	, MIDC I	ndustrial Are	a, P.O.	Taloja	Dist. Raigad 41	0208 Ma	aharashtra
Custom	ner Reference		Order no. 4800				•			
Date	of Sampling	Sample F	Received Date	Analy	sis Start Dat	te		s Complete Date	Rep	oort on Date
1	2.06.2020	13.	06.2020	1	3.06.2020		16.	06.2020	1	6.06.2020
Sample Type : Flue Gas (Stack) Sampling done by : Netel (India) Limited										
Stack C	onnected to :	Boiler			Stack D	iamete	er	: 1830 mm		
Samplin	ng Location :	Boiler D			Sample	Code		: NIL/ST/06/20	0/007	
Sr. No.	Paramet	ers	Method	d	Unit	М	DL*	Results	5 ,	Consent Limits
1	Stack Temperate	ure	IS 11255 (P	art 3)	°C	-		108		444
2	Stack Gas Veloc	eity	IS 11255 (P	art 3)	m/sec	-	-	5.04		
3	Volumetric Flow	Rate	IS 11255 (P	art 3)	Nm³/hr	-		37169		- 202
4	Sulphur Dioxide		IS 11255 (P	art 2)	mg/Nm³	;	3	BDL		
					ppm	-		BDL		
					kg/day	-		BDL		
5	Oxides of Nitrog	en	IS 11255 (P	art 7)	mg/Nm³		3	44.0		
					ppm	-		23.4		50
kg/day 39.25										
6	Carbon Monoxid	е	USEPA -	10A	mg/Nm³		4	6.6		222
				Ì	ppm	-		5.8		
					kg/day	-		5.89		

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

Cere

**Technical Manager** 

\*\*\*End of Report\*\*\*



CIN: U74999MH2003PLC142228

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





f Organization	: M/s. [	Deepak Fertilise	ers And F	Petro	chemicals (	Corporation	Limited.		
ner Address	: Taloja	Plant Plot K-1	, MIDC I	ndus	trial Area, F	O. Taloja	Dist. Raigad 41	0208 M	aharashtra
ner Reference	: Work	Order no. 4800	055893,	, Date	ed 24.07.20	19			
of Sampling	Sample F	Received Date Analysis			sis Start Date Anal		is Complete Date	Report on Date	
5.06.2020	16.	06.2020	1	6.06.	.2020	19	.06.2020	1	9.06.2020
Туре :	Process G	Sas (Stack)			Sampling of	done by	: Netel (India)	Limited	
connected to :	GP Vent				Stack Dian	neter	: 640 mm		
Sampling Location : GP Vent Sample Code : NIL/ST/06/20/008									
Paramet	ers	Metho	d		Unit	MDL*	Results	5	Consent Limits
Temperature		IS 11255 (F	art 3)		°C		87.0		
Velocity of Gas		IS 11255 (F	art 3)		m/sec		1.87		
Volumetric Flow	Rate	IS 11255 (F	art 3)	1	Vm³/hr		1783		
Particulate Matte	er	IS 11255 (F	art 1)	n	ng/Nm³	3	8.9		100
				ŀ	kg/day		0.381		
5 Ammonia IS 11258				n	ng/Nm³	0.05	9.5		
					ppm		13.64		50
		ō			kg/hr		0.0169	)	
	ner Address ner Reference of Sampling 5.06.2020 Type : connected to : ng Location : Paramet Temperature Velocity of Gas Volumetric Flow Particulate Matte	rer Address : Taloja rer Reference : Work  of Sampling Sample R 5.06.2020 16.  Type : Process Genected to : GP Vent ring Location : GP Vent  Parameters  Temperature  Velocity of Gas  Volumetric Flow Rate  Particulate Matter	rer Address : Taloja Plant Plot K-1 ier Reference : Work Order no. 4800 of Sampling Sample Received Date 5.06.2020 16.06.2020  Type : Process Gas (Stack) connected to : GP Vent ing Location : GP Vent Parameters Method Temperature IS 11255 (Fixed Volumetric Flow Rate IS 11255 (Fixed Particulate Matter)  Parameters IS 11255 (Fixed Particulate Matter)	rer Address : Taloja Plant Plot K-1, MIDC I rer Reference : Work Order no. 4800055893  of Sampling Sample Received Date Analy 5.06.2020 16.06.2020 1  Type : Process Gas (Stack) connected to : GP Vent reg Location : GP Vent Parameters Method  Temperature IS 11255 (Part 3)  Velocity of Gas IS 11255 (Part 3)  Volumetric Flow Rate IS 11255 (Part 3)  Particulate Matter IS 11255 (Part 1)	rer Address : Taloja Plant Plot K-1, MIDC Industrier Reference : Work Order no. 4800055893, Data of Sampling   Sample Received Date   Analysis Sample Received	rer Address : Taloja Plant Plot K-1, MIDC Industrial Area, Fler Reference : Work Order no. 4800055893, Dated 24.07.20  of Sampling	rer Address         : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja           der Reference         : Work Order no. 4800055893, Dated 24.07.2019           of Sampling         Sample Received Date         Analysis Start Da	ter Address         : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 41           ter Reference         : Work Order no. 4800055893, Dated 24.07.2019           of Sampling         Sample Received Date         Analysis Start Date         Analysis Complete Date           5.06.2020         16.06.2020         19.06.2020           Type         : Process Gas (Stack)         Sampling done by : Netel (India)           Connected to : GP Vent         Stack Diameter : 640 mm           Ing Location : GP Vent         Sample Code : NIL/ST/06/20           Parameters         Method         Unit MDL* Results           Temperature         IS 11255 (Part 3) °C 87.0           Velocity of Gas         IS 11255 (Part 3) m/sec 1.87           Volumetric Flow Rate         IS 11255 (Part 3) Nm³/hr 1783           Particulate Matter         IS 11255 (Part 1) mg/Nm³ 3 8.9           Kg/day         0.381           Ammonia         IS 11255 (Part 6) mg/Nm³ 0.05 9.5           ppm         13.64	Iter Address         : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Marer Reference         : Work Order no. 4800055893, Dated 24.07.2019           of Sampling         Sample Received Date         Analysis Start Date         Analysis Complete Date         Rej           5.06.2020         16.06.2020         16.06.2020         19.06.2020         1           Type         : Process Gas (Stack)         Sampling done by (India) Limited Stack Diameter         : 640 mm           Sonnected to : GP Vent         Sample Code (India) Limited Stack Diameter         : 640 mm           Ing Location : GP Vent         Sample Code (India) Limited Stack Diameter           Ing Location : GP Vent         Sample Code (India) Limited Stack Diameter           Ing Location : GP Vent         Sample Code (India) Limited Stack Diameter           Ing Location : GP Vent         Sample Code (India) Limited Stack Diameter           Ing Location : GP Vent         Sample Code (India) Limited Stack Diameter           Ing Location : GP Vent         Sample Code (India) Limited Stack Diameter           Ing Location : GP Vent         Sample Code (India) Limited Stack Diameter           Ing Location : GP Vent         Sample Code (India) Limited Stack Diameter           Ing Location : GP Vent (India) Limited Stack Diameter         Sample Code (India) Limited Stack Diameter           Ing Location : GP Vent (India) Limited Stack Dia

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*



CIN: U74999MH2003PLC142228

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





			OIACK	INICIA	HOKING	KLFUI	<b>V</b> I		
Name o	of Organization	: M/s. [	Deepak Fertilise	ers And	Petrochemical	s Corporatio	n Limited.		
Custon	ner Address						Dist. Raigad 41	0208 M	aharashtra
Custon	ner Reference		Order no. 4800				Control Control Control Control Control		
	of Sampling	Sample F	Analy	sis Complete Date	Re	port on Date			
1	5.06.2020	16.	06.2020	6.06.2020	19	0.06.2020	1	9.06.2020	
Sample	: Type	Process C	Gas (Stack)		Sampling	g done by	: Netel (India)	Limited	
Stack C	Connected to :	LDAN Pri	ling Tower		Stack Dia	ameter	: 1632 mm		
Sampli	ng Location :	LDAN Pril	ling Tower		Sample (	Code	: NIL/ST/06/20	0/015	
Sr. No.	Paramet	ers	Method	d	Unit	MDL*	Results	S	Consent Limits
1	Temperature		IS 11255 (P	art 3)	°C		41.0		0222
2	Velocity of Gas		IS 11255 (P	art 3)	m/sec		1.99		
3	Volumetric Flow	Rate	IS 11255 (P	art 3)	Nm³/hr		14147		
4	Particulate Matte	er	IS 11255 (P	art 1)	mg/Nm³	3	8.0		100
					kg/day		2.716		
5	Ammonia		IS 11255 (P	art 6)	mg/Nm³	0.05	9.5		
			<i>p</i>		ppm		13.64		50
					kg/hr		0.1344		

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Issued by:

Shraddha Kere Technical Manager

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			OIAON	IAIOIA	II OI (III O	IVEL OI	A I		
Name o	of Organization	: M/s. [	Deepak Fertilise	ers And F	Petrochemicals	Corporation	Limited.		
Custom	ner Address	: Taloja	a Plant Plot K-1	, MIDC II	ndustrial Area,	P.O. Taloja	Dist. Raigad 41	0208 Ma	aharashtra
Custom	ner Reference	: Work	Order no. 4800	055893,	Dated 24.07.2	2019			
Date	of Sampling	Sample F	*		sis Start Date	Start Date Analysi		Rep	port on Date
1	5.06.2020	16.	06.2020	10	6.06.2020	19.	06.2020	1	9.06.2020
Sample	Туре :	Process C	Gas (Stack)		Sampling	done by	: Netel (India)	Limited	
Stack C	connected to :	Scrubber			Stack Dia	meter	: 1500 mm		
Samplii	ng Location :	LDAN Scr	ubber		Sample C	ode	: NIL/ST/06/2	0/009	
Sr. No.	o. Parameters		Method		Unit	MDL*	Results	s	Consent Limits
1	Temperature		IS 11255 (F	art 3)	°C		80.0		
2	Velocity of Gas		IS 11255 (P	art 3)	m/sec		2.27		
3	Volumetric Flow	Rate	IS 11255 (P	art 3)	Nm³/hr		12126		
4	Particulate Matte	er	IS 11255 (F	art 1)	mg/Nm³	3	8.1		100
					kg/day		2.357		
5	Ammonia		IS 11255 (F	art 6)	mg/Nm³	0.05	5.8		
					ppm		8.33		50
					ka/hr		0.0703	3	

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Dy. Technical Manager

Issued by:

Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*





			STACK	MOIN	HORING	KEPUR			
Name o	of Organization	: M/s.[	Deepak Fertilise	ers And I	Petrochemical	s Corporation	Limited.		
Custon	ner Address	: Taloja	a Plant Plot K-1	, MIDC I	ndustrial Area	, P.O. Taloja	Dist. Raigad 41	0208 M	aharashtra
Custon	ner Reference	: Work	Order no. 4800	0055893	, Dated 24.07.	2019			
	of Sampling	Sample F	Received Date	Analy	sis Start Date	Analys	is Complete Date	Rep	ort on Date
1	5.06.2020	16.	06.2020	1	6.06.2020	19	.06.2020	1	9.06.2020
Sample	: Type :	Process C	Sas (Stack)		Sampling	g done by	: Netel (India)	Limited	
Stack C	connected to :	ANP Prilli	ng Tower		Stack Dia	ameter	: 1655 mm		
Samplin	ng Location :	ANP Prilli	ng Tower		Sample (	Code	: NIL/ST/06/20	)/010	
Sr. No.	o. Parameters		Method		Unit	MDL*	Results	5	Consent Limits
1	Temperature		IS 11255 (P	art 3)	°C		44.0		
2	Velocity of Gas		IS 11255 (F	art 3)	m/sec		29.2		
3	Volumetric Flow	Rate	IS 11255 (P	art 3)	Nm³/hr		210233	}	
4	Total Particulate	Matter	IS 11255 (F	art 1)	mg/Nm³	3	18.6		150
					kg/day		93.848		
5	Ammonia		IS 11255 (P	art 6)	mg/Nm³	0.05	8.70		
					ppm		12.51		50
					kg/hr		2.6300		
6	Fluoride		IS 11255 (P	art 5)	mg/Nm³	0.05	0.18		25
				6-10	ppm		0.23		
					kg/day		0.9082		

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Issued by:

Shraddha Kere Technical Manager

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CIN: U74999MH2003PLC142228

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





			STACK	MON	HORING	KEPOR			
Name o	f Organization	: M/s.[	Deepak Fertilise	ers And F	Petrochemicals	Corporation	Limited.		
Custom	ner Address	: Taloja	a Plant Plot K-1	, MIDC I	ndustrial Area,	P.O. Taloja	Dist. Raigad 410	0208 M	aharashtra
Custon	ner Reference	: Work	Order no. 4800	0055893	, Dated 24.07.2	2019			
	of Sampling	Sample F	Received Date	Analy	sis Start Date		is Complete Date	Rej	port on Date
1	5.06.2020	16.	5.06.2020 16.06		6.06.2020	19.06.2020		19.06.2020	
Sample	Type :	Process C	Sas (Stack)		Sampling	done by	: Netel (India)	Limited	
Stack C	connected to :	ANP Vaco	cum Pumps		Stack Dia	meter	: 200 mm		
Sampli	ng Location :	ANP Vaco	cum Pumps		Sample C	ode	: NIL/ST/06/20	)/012	
Sr. No.	No. Parameters		Method		Unit	MDL*	Results	;	Consent Limits
1	Temperature		IS 11255 (P	Part 3)	°C		49.0		
2	Velocity of Gas		IS 11255 (F	Part 3)	m/sec		2.2		
3	Volumetric Flow	Rate	IS 11255 (F	Part 3)	Nm³/hr		231		
4	Total Particulate	Matter	IS 11255 (F	Part 1)	mg/Nm³	3	8.4		150
					kg/day		0.047		
1	Ammonia		IS 11255 (F	Part 6)	mg/Nm³	0.05	7.90		
					ppm		11.36		50
					kg/hr		0.0026		
1	Fluoride		IS 11255 (F	Part 5)	mg/Nm³	0.05	BDL		25
					ppm		BDL		
					kg/day		BDL		

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A Neterwala Group Company

CIN: U74999MH2003PLC142228

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





			SIACK	INICIA	ONIMO	ILLLOW	. I		
Name o	of Organization	: M/s.[	Deepak Fertilise	ers And F	Petrochemicals	Corporation	Limited.		
Custom	ner Address	: Taloja	Plant Plot K-1	, MIDC I	ndustrial Area,	P.O. Taloja	Dist. Raigad 41	0208 Ma	aharashtra
Custom	ner Reference		Order no. 4800						
Date	of Sampling	Sample F	Received Date	Analy	sis Start Date	53	is Complete Date	Rej	oort on Date
1	5.06.2020	16.	06.2020	1	6.06.2020	.2020 19.06.2020			9.06.2020
Sample	Туре :	Process C	Sas (Stack)		Sampling	done by	: Netel (India)	Limited	
Stack C	connected to :	ANP Cycl	one Separator		Stack Dia	meter	: 1500 mm		
Samplii	ng Location :	ANP Cycl	one Separator		Sample C	ode	: NIL/ST/06/2	0/013	
Sr. No.	Paramet	ers	Metho	d	Unit	MDL*	Results		Consent Limits
1	Temperature		IS 11255 (P	art 3)	°C		57.0		
2	Velocity of Gas		IS 11255 (F	art 3)	m/sec		11.3		
3	Volumetric Flow	Rate	IS 11255 (F	Part 3)	Nm³/hr		64439		
4	Total Particulate	Matter	IS 11255 (F	art 1)	mg/Nm³	3	26.7		150
					kg/day		41.293	}	
1	Ammonia		IS 11255 (F	art 6)	mg/Nm³	0.05	20.10		
					ppm		28.91		50
					kg/hr		1.8629	)	
1	Fluoride		IS 11255 (F	art 5)	mg/Nm³	0.05	BDL		25
					ppm		BDL		
,					kg/day		BDI		

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Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*



CIN: U74999MH2003PLC142228

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

Phone: 022-27607102 / 27607103 / 27606 016 / 20877101 • Website: www.netel-india.com • E-mail: ems@netel-india.com





			OIAON	INICIA	110111110	IVEL OF	<b>V</b> I		
Name o	of Organization	: M/s. [	Deepak Fertilise	ers And F	Petrochemicals	Corporatio	n Limited.		
Custon	ner Address						Dist. Raigad 41	0208 Ma	aharashtra
Custon	ner Reference		Order no. 4800						
	of Sampling	Sample F	Received Date	Analy	sis Start Date	Analys	sis Complete Date	Rej	port on Date
1	7.06.2020	18.	06.2020	1	8.06.2020	22	2.06.2020	2	2.06.2020
Sample	: Туре	Process C	Gas (Stack)		Sampling	done by	: Netel (India)	Limited	
Stack C	Connected to :	NPK Trair	n-1 Process		Stack Dia	meter	: 2772 mm		
Sampli	ng Location :	NPK Trair	า-1		Sample C	Sample Code : NIL/ST/06/			
Sr. No.	o. Parameters		Method		Unit	MDL*	Results		Consent Limits
1	Temperature		IS 11255 (Part 3)		°C		55.0		
2	Velocity of Gas		IS 11255 (P	art 3)	m/sec		11.1		
3	Volumetric Flow	Rate	IS 11255 (P	art 3)	Nm³/hr		217871		
4	Total Particulate	Matter	IS 11255 (P	art 1)	mg/Nm³	3	17.4		150
					kg/day		90.983		
1	Ammonia		IS 11255 (P	art 6)	mg/Nm³	0.05	14.30		
					ppm		20.57		50
					kg/hr		4.4816		
1	Fluoride		IS 11255 (P	art 5)	mg/Nm³	0.05	0.59		25
					ppm		0.76		
					ko/day		3 0851		100000

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\*\*\*End of Report\*\*\*

A Neterwala Group Company

CIN: U74999MH2003PLC142228

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





			SIACK	IVIOIN	HOKING	JAL	:FUR	I		
Name o	f Organization	: M/s. [	Deepak Fertilise	ers And F	Petrochemica	als Cor	poration	Limited.		
Custom	er Address	: Taloja	Plant Plot K-1	, MIDC I	ndustrial Are	a, P.O.	. Taloja l	Dist. Raigad 41	0208 Ma	aharashtra
Custom	er Reference		Order no. 4800							
Date	of Sampling	Sample F	Received Date	Analy	sis Start Dat	:e		is Complete Date		ort on Date
1	7.06.2020	18.	06.2020	1	8.06.2020	22.06.2020			22.06.2020	
Sample	Type :	Process C	Gas (Stack)		Samplii	ng don	e by	: Netel (India)	Limited	
Stack C	onnected to :	Reformer			Stack D	iamete	er	: 1373 mm		
Samplin	ng Location :	Ammonia	Primary Reform	ner	Sample	Code		: NIL/ST/06/20	0/018	
Sr. No.			Method		Unit	M	DL*	Results		Consent Limits
1	Stack Temperate	ure	IS 11255 (P	IS 11255 (Part 3)				174		
2	Stack Gas Veloc	city	IS 11255 (Part 3)		m/sec			9.87		
3	Volumetric Flow	Rate	IS 11255 (Part 3)		Nm³/hr			34910.3	9	
4	Sulphur Dioxide		IS 11255 (P	art 2)	mg/Nm³		3	5.4		
					ppm			2.0		
					kg/day	85		4.52		
5	Oxides of Nitrog	en	IS 11255 (P	art 7)	mg/Nm³		3	9.4		
	=				ppm			5.0		50
					kg/day			7.88		
6	Carbon Monoxid	le	USEPA -	10A	mg/Nm³		4	6.5		
					ppm			5.7		
			kg/day			5.45				

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Shraddha Kere

**Technical Manager** 

\*\*\*End of Report\*\*\*



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





			STACK	IVIOIN	HURING	אכ	EPUR	I		
Name o	f Organization	: M/s. [	Deepak Fertilise	ers And I	Petrochemica	als Co	rporation	Limited.		
Custom	ner Address	: Taloja	Plant Plot K-1	, MIDC I	ndustrial Are	a, P.0	D. Taloja I	Dist. Raigad 41	0208 Ma	aharashtra
Custon	ner Reference	: Work	Order no. 4800	055893	Dated 24.07	7.2019	9			
	of Sampling		Received Date	Analy	sis Start Dat	D			Rep	ort on Date
1	7.06.2020	18.	06.2020	18.06.2020			22.	06.2020	2	2.06.2020
Sample	Type :	Flue Gas	(Stack)		Samplin	ng do	ne by	: Netel (India)	Limited	
Stack C	onnected to :	Boiler			Stack D	iame	ter	: 1500 mm		
Sampli	ng Location :	CES-A Er	ngine Exhaust E	Boiler	Sample	Code	е	: NIL/ST/06/20	0/019	
Sr. No.			Method		Unit	N	/IDL*	Results		Consent Limits
1	Stack Temperati	ure	IS 11255 (Part 3)		°C			172		
2	Stack Gas Veloc	city	IS 11255 (Part 3)		m/sec			9.37		
3	Volumetric Flow	Rate	IS 11255 (Part 3)		Nm³/hr			39734.3	5	
4	Sulphur Dioxide		IS 11255 (P	art 2)	mg/Nm³		3	4.7		
					ppm			1.7		
					kg/day			4.48		
5	Oxides of Nitrog	en	IS 11255 (P	art 7)	mg/Nm³		3	8.6		een)
					ppm			4.6		50
					kg/day			8.20		
6	Carbon Monoxid	le	USEPA -	10A	mg/Nm³		4	8.2		
					ppm			7.2		
				*	kg/day			7.82		

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Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

Technical Manager

\*\*\*End of Report\*\*\*

A Neterwala Group Company

CIN: U74999MH2003PLC142228

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			STACK	IVIOIN	HORING	JK	EPUR	I		
Name o	of Organization	: M/s.[	Deepak Fertilise	ers And I	Petrochemica	als C	orporation	Limited.		
Custon	ner Address	: Taloja	Plant Plot K-1	, MIDC I	ndustrial Are	a, P.	O. Taloja	Dist. Raigad 41	0208 Ma	aharashtra
Custon	ner Reference		Order no. 4800							
	of Sampling	Sample F	Received Date	Analy	sis Start Dat	te	e Analysis Complete Date			oort on Date
1	7.06.2020	18.	06.2020	18.06.2020			22.	06.2020	2	2.06.2020
Sample	: Type	Flue Gas	(Stack)		Samplin	ng d	one by	: Netel (India)	Limited	
Stack C	Connected to :	Boiler			Stack D	)iam	eter	: 1500 mm		
Sampli	ng Location :	CES-B Er	igine Exhaust E	Boiler	Sample	Coc	le	: NIL/ST/06/20	0/020	
Sr. No.	. Parameters		Method		Unit		MDL*	Results	6	Consent Limits
1	Stack Temperat	ure	IS 11255 (P	art 3)	°C			180		
2	Stack Gas Veloc	city	IS 11255 (Part 3)		m/sec			8.76		
3	Volumetric Flow	Rate	IS 11255 (P	art 3)	Nm³/hr			36496.3	8	
4	Sulphur Dioxide		IS 11255 (P	art 2)	mg/Nm³		3	4.4		
					ppm			1.6		
					kg/day			3.85		
5	Oxides of Nitrog	en	IS 11255 (P	art 7)	mg/Nm³		3	12.4		
	4		2		ppm			6.6		50
					kg/day			10.86		11
6	Carbon Monoxid	le	USEPA -	10A	mg/Nm³		4	16.6		
					ppm			14.5		
								14.54		

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Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

**Technical Manager** 

\*\*\*End of Report\*\*\*

A Neterwala Group Company

CIN: U74999MH2003PLC142228

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





 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

Analysis Complete

 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-1Stack Diameter: 2772 mm

Sampling Location : NPK Train-1 Sample Code : NIL/ST/07/20/022

oumpin	ig Location . IN IN IT all	I S S	oampic c	rouc	. INILIOTIOTIZOTOZZ	
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)	Nm³/hr		223000	
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm³	3	20.3	150
			kg/day		108.646	
5	Ammonia	IS 11255 (Part 6)	mg/Nm³	0.05	15.10	
			ppm		21.72	50
			kg/hr		4.8436	
6	Fluoride	IS 11255 (Part 5)	mg/Nm³	0.05	BDL	25
			ppm		BDL	
			kg/day		BDL	

#### Note:

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*

A Neterwala Group Company

CIN: U74999MH2003PLC142228

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





			0171011	1111011		1101	VEI 011	•		
Name o	f Organization	: M/s. [	Deepak Fertilise	ers And F	Petrocher	nicals (	Corporation	Limited.		
Custom	er Address	: Taloja	Plant Plot K-1	, MIDC II	ndustrial	Area, P	P.O. Taloja I	Dist. Raigad 41	0208 Ma	harashtra
Custom	ner Reference	: Work	Order no. 4800	055893,	Dated 2	4.07.20	)19			
Date	of Sampling	Sample R	Received Date	Analy	sis Start	Date		s Complete Date	Rep	ort on Date
2	9.07.2020	30.0	07.2020	30.07.2		0	03.08.2020		03.08.2020	
Sample	Type :	Stack)		San	npling o	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.	Sr. No. Parameters		Method		Uni	t	MDL*	Result	s	Consent Limits
1	Temperature		IS 11255 (F	Part 3)	°C			56.0		
2	Velocity of Gas		IS 11255 (F	Part 3)	m/se	ec		11.9		
3	Volumetric Flow	Rate	IS 11255 (F	Part 3)	Nm³/	hr/hr		23266	5	
4	Total Particulate	Matter	IS 11255 (F	Part 1)	mg/N	m³	3	18.4		150
					kg/d	ay		102.745		
1	Ammonia		IS 11255 (F	Part 6)	mg/N	lm³	0.05	14.60	N.	
					ppr	n		21.00		50
					kg/h	nr		4.8860	0	
1	Fluoride		IS 11255 (F	Part 5)	mg/N	lm³	0.05	BDL		25
					ppr	n		BDL		
					kg/d	ay		BDL		

#### Note:

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*

A Neterwala Group Company

CIN: U74999MH2003PLC142228

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





## 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

**Analysis Complete Date of Sampling** Sample Received Date **Analysis Start Date** Report on Date 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

· NIL/ST/08/20/022 Sampling Location : Boiler A/B Sample Code

Campin	ing Location . Doller Art		Sample	Code	. IVIL/31/00/20/022	
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)	Nm³/hr		27151	
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm³	3	3.9	
			ppm		1.4	
			kg/day		2.54	
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm³	3	28.9	
			ppm		15.4	50
			kg/day	122	18.83	
6	Carbon Monoxide	USEPA - 10A	mg/Nm³	4	7.0	
			ppm		6.1	
			kg/day		4.56	

## Note:

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

**Technical Manager** 

\*\*\*End of Report\*\*\*

A Neterwala Group Company

W-408, Rabale MIDC, TTC Industrial Area, NAVI MUMBAI - 400 701.

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Tel.: +91 022 2760 7102 / 2760 7103

Fax: +91 022 2760 7100

Website: www.netel-india.com

CIN: U74999MH2003PLC142228







## 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

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

Sample Type : Flue Gas (Stack) Sampling done by : Netel (India) Limited

Stack Connected to : GT-2 Stack Diameter : 1500 mm

Sampling Location : HRSG 2 : NIL/ST/08/20/023 Sample Code

Campin	ing Location . Throo 2		Odinpic	Ouc	. IVIL/31/00/20/023	
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)	Nm³/hr		51862	
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm³	3	6.7	
			ppm	(200)	2.4	
			kg/day		8.34	
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm³	3	8.0	
			ppm		4.3	50
			kg/day		9.96	
6	Carbon Monoxide	USEPA - 10A	mg/Nm³	4	7.5	
			ppm		6.5	
			kg/day		9.34	

## Note:

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Surakha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

**Technical Manager** 

\*\*\*End of Report\*\*\*

A Neterwala Group Company

W-408, Rabale MIDC, TTC Industrial Area, NAVI MUMBAI - 400 701. INDIA.

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CIN: U74999MH2003PLC142228







## 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

Campin	ing Ecoulion . Through		oampie oode			
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)	Nm³/hr		49931	
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm³	3	6.9	
			ppm		2.5	
			kg/day		8.27	
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm³	3	8.0	
			ppm		4.3	50
			kg/day		9.59	
6	Carbon Monoxide	USEPA - 10A	mg/Nm³	4	10.4	
			ppm		9.1	
			kg/day		12.46	

## Note:

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

**Technical Manager** 

\*\*\*End of Report\*\*\*

A Neterwala Group Company

W-408, Rabale MIDC, TTC Industrial Area, NAVI MUMBAI - 400 701.

INDIA.

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E-mail : sales@netel-india.com Website : www.netel-india.com

CIN: U74999MH2003PLC142228







# STACK MONITORING REPORT

: 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	Sampling Sample Received Date Analysis Start Date Analysis Complete Report on							
21.08.2020 24.08.2020 24.08.2020 27.08.2020 28.08								

 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

	Tamping Levation 1 7 minimorna 1 minary 1 toronnor		Tournpie oode		. 1112/01/00/20/020	
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)	Nm³/hr		33026.91	
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm³	3	5.2	
			ppm		1.9	
			kg/day		4.12	
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm³	3	7.1	
			ppm		3.8	50
			kg/day		5.63	
6	Carbon Monoxide	USEPA - 10A	mg/Nm³	4	9.3	
			ppm	(	8.1	
			kg/day		7.37	

## Note:

Name of Organization

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Verified by:

Sulekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

**Technical Manager** 

\*\*\*End of Report\*\*\*

A Neterwala Group Company

W-408, Rabale MIDC, TTC Industrial Area, NAVI MUMBAI - 400 701.

INDIA.

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Website: www.netel-india.com CIN: U74999MH2003PLC142228

E-mail: sales@netel-india.com







# STACK MONITORING REPORT

Name of Organization	: IM/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. 4800	055893, Dated 24.07.20	19				
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) LimitedStack Connected to: BoilerStack Diameter: 1500 mm

Sampling Location CES-A Engine Exhaust Boiler Sample Code NIII /ST/08/20/026

Sampin	impling Location . CES-A Engine Exhaust Boller		Sample	Code	: NIL/51/06/20/026	
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)	Nm³/hr		35817.95	
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm³	3	3.6	
			ppm		1.3	
			kg/day		3.09	
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm³	3	7.9	
			ppm		4.2	50
			kg/day		6.79	
6	Carbon Monoxide	USEPA - 10A	mg/Nm³	4	6.9	
			ppm		6.0	
			kg/day		5.93	122

#### Note:

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Verified by:

Surakha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

**Technical Manager** 

\*\*\*End of Report\*\*\*

A Neterwala Group Company

W-408, Rabale MIDC, TTC Industrial Area, NAVI MUMBAI - 400 701.

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CIN: U74999MH2003PLC142228







# STACK MONITORING REPORT

Name o	Name of Organization : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.									
Custon	Customer Address : Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra									
Custon	ner Reference	: Work	Order no. 4800	055893,	Dated 24.07	7.2019	9			
Date of Sampling Sample Received Date Analysis Start Date Analysis Complete Date Report on Date						ort on Date				
2	21.08.2020	24.	08.2020	24	4.08.2020		27.	08.2020	2	8.08.2020
Sample	туре :	Flue Gas	(Stack)		Samplin	ng do	ne by	: Netel (India)	Limited	
Stack C	Connected to :	Boiler			Stack D	iame	ter	: 1500 mm		
Sampli	ng Location :	CES-B Er	igine Exhaust E	Boiler	Sample	Cod	е	: NIL/ST/08/20	0/027	
Sr. No.	Paramet	ers	Metho	d	Unit	ľ	MDL*	Results	3	Consent Limits
1	Stack Temperate	ure	IS 11255 (F	art 3)	°C			179		
2	Stack Gas Veloc	city	IS 11255 (F	art 3)	m/sec			8.67		
3	Volumetric Flow	Rate	IS 11255 (F	art 3)	Nm³/hr			36249.1	8	
4	Sulphur Dioxide		IS 11255 (F	art 2)	mg/Nm³		3	3.5		
					ppm			1.3		

kg/day

mg/Nm<sup>3</sup>

ppm

kg/day

mg/Nm<sup>3</sup>

ppm

kg/day

3

---

4

Note:

5

6

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- 2. \*\* BDL Below Detectible Limit.
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IS 11255 (Part 7)

USEPA - 10A

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

Verified by

Surekha Jamdar

Oxides of Nitrogen

Carbon Monoxide

Dy. Technical Manager

Issued by:

50

---

Shraddha Kere

**Technical Manager** 

3.04

13.1 7.0

11.40

19.5 17.0

16.96

\*\*\*End of Report\*\*\*

A Neterwala Group Company

W-408, Rabale MIDC, TTC Industrial Area, NAVI MUMBAI - 400 701.

INDIA.

Tel.: +91 022 2760 7102 / 2760 7103

Fax: +91 022 2760 7100

Website: www.netel-india.com CIN: U74999MH2003PLC142228







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		

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

12.09.2020 15.09.2020 15.09.2020 11.09.2020 12.09.2020 Sample Type : Process Gas (Stack) Sampling done by : Netel (India) Limited : 953 mm Stack Connected to: WNA - 2 Process Stack Diameter : NIL/ST/09/20/006 Sampling Location : WNA - 2 Stack Sample Code

		VADA (1-100)		Section 1		
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)	Nm³/hr	12 <u>11</u>	5026	122
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm³	3	191	
		100	ppm		343.7	
			kg/day		23.039	
			kg/ton of WNA		0.0817	3
5	Ammonia	IS 11255 (Part 6)	mg/Nm³	0.05	18.70	
		2	ppm		13.00	
			kg/hr		0.0653	3

#### Note:

Name of Organization

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*

CIN: U74999MH2003PLC142228



A Neterwala Group Company

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





: 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						

		Alterial Science And Control Science		
Sample Type	: Process Gas (Stack)	Sampling (	done by : Netel (India)	Limited
Stack Connected to	: WNA - 3 Process	Stack Dian	neter ; 953 mm	
Sampling Location	: WNA - 3 Stack	Sample Co	de : NIL/ST/09/2	0/007

Oumpin	damping Location . WWW - O Otdok		Tourible dode		. INIL/01/00/20/00/	
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	<del>(100</del> )
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm³/hr		4256	
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm³	3	172	
			ppm		309.5	
			kg/day		17.569	
			kg/ton of WNA		0.0660	3
1	Ammonia	IS 11255 (Part 6)	mg/Nm³	0.05	19.30	
			ppm		13.42	
			kg/hr		0.0571	3

## Note:

Name of Organization

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Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*



CIN: U74999MH2003PLC142228





: 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 : 953 mm Stack Connected to : WNA - 4 Process Stack Diameter Sample Code : NIL/ST/09/20/008 Sampling Location : WNA - 4 Stack

- ala	.9	Gradit	0 0.111.				
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)	Nm³/hr		4402		
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm³	3	235		
			ppm		422.9		
			kg/day		24.827		
			kg/ton of WNA		0.0577	3	
1	Ammonia	IS 11255 (Part 6)	mg/Nm³	0.05	26.30		
			ppm		18.29		
			kg/hr		0.0805	3	

#### Note:

Name of Organization

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Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*





Report on Date

Date

# STACK MONITORING REPORT

Data of Compline	Sample Pensived Date	Analysis Ctart Data	Analysis Complete	Panart on Data						
Customer Reference	<b>Customer Reference</b> : Work Order no. 4800055893, Dated 24.07.2019									
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra									
Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.									

11.09.2020	12.09.2020	12.09.2	2020	15	.09.2020	15.09.2020
Sample Type	: Process Gas (Stack)	8	Sampling d	one by	: Netel (India)	Limited
Stack Connected to	: CNA-1 Process	8	Stack Diam	eter	: 75 mm	
Sampling Location	: CNA-1	5	Sample Cod	de	: NIL/ST/09/2	0/009

**Analysis Start Date** 

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)	Nm³/hr		30.77	
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm³	3	32.3	
			ppm		58.1	50
			kg/day		0.024	
5	Ammonia	IS 11255 (Part 6)	mg/Nm³	0.05	34.60	
			ppm		24.06	
			kg/hr		0.0007	3

#### Note:

Date of Sampling

- 1. \* MDL Minimum Detectible Limit.
- 2. \*\* BDL Below Detectible Limit.
- 3. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.
- 4. This Test Report refers only to the sample tested.

Sample Received Date

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

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere **Technical Manager** 

\*\*\*End of Report\*\*\*

CIN: U74999MH2003PLC142228





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

Custom	er Address	: Taloja	Plant Plot K-1	, MIDC Ir	ndustrial Area,	P.O. Taloja	Dist. Raigad 41	0208 M	aharashtra
Custom	er Reference	: Work	Order no. 4800	055893,	Dated 24.07.2	019			
Date of Sampling Sample		Sample R	Received Date Analy		sis Start Date		is Complete Date	Report on Date	
11.09.2020 12.09.20			09.2020	12	2.09.2020	15.	09.2020	15.09.2020	
Sample	Туре :	Process G	Sas (Stack)		Sampling	done by	: Netel (India)	Limited	
Stack C	onnected to :	ANP Deduc	cting Unit (Cyclor	ne Separa	tor) Stack Dia	meter	: 1500 mm		
Samplir	ng Location :	ANP Deduc	cting Unit (Cyclor	ne Separa	tor) Sample C	ode	: NIL/ST/09/20	0/004	
Sr. No.	Paramet	ers	Method	d	Unit	MDL*	Results	S	Consent Limits
1	Temperature		IS 11255 (P	art 3)	°C		54.0		
2	Velocity of Gas		IS 11255 (P	art 3)	m/sec		10.3		
3	Volumetric Flow	Rate	IS 11255 (P	Part 3)	Nm³/hr		59883		
4 Total Particulate Matt		Matter	IS 11255 (P	Part 1)	mg/Nm³	3	24.3		150
			SAP		kg/day		34.924	1	
5	Ammonia		IS 11255 (F	Part 6)	mg/Nm³	0.05	17.40		

ppm

kg/hr

mg/Nm<sup>3</sup>

ppm

kg/day

---

0.05

## Note:

6

Fluoride

Name of Organization

- 1. \* MDL Minimum Detectible Limit.
- 2. \*\* BDL Below Detectible Limit.
- 3. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.

IS 11255 (Part 5)

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

Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

50

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25

Shraddha Kere **Technical Manager** 

25.03

1.4989

8.70

11.20

12,5036

\*\*\*End of Report\*\*\*



CIN: U74999MH2003PLC142228

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





			0171011	111014		1121	•		
Name o	f Organization	: M/s. [	Deepak Fertilise	ers And F	Petrochemical	s Corporation	Limited.		
Custom	ner Address	: Taloja	Plant Plot K-1	, MIDC I	ndustrial Area	P.O. Taloja	Dist. Raigad 41	0208 Ma	aharashtra
Custom	ner Reference	: Work	Order no. 4800	055893,	Dated 24.07.	2019			
Date	of Sampling	Sample F	Received Date	Analy	sis Start Date	Start Date Analysis Comp		. Report on Da	
1	1.09.2020	12.	09.2020	1	2.09.2020	15	.09.2020	1	5.09.2020
Sample	Туре :	Process C	Gas (Stack)		Sampling	g done by	: Netel (India)	Limited	
Stack C	Connected to :	ANP Vaco	cum Pumps		Stack Di	ameter	: 200 mm		
Samplin	ng Location :	ANP Vaco	cum Pumps		Sample (	Code	: NIL/ST/09/2	0/005	
Sr. No.	Paramet	eters Metho		d	Unit	MDL*	Result	s	Consent Limits
1	Temperature		IS 11255 (F	art 3)	°C		45.0		
2	Velocity of Gas		IS 11255 (F	art 3)	m/sec		2.1		
3	Volumetric Flow	Rate	IS 11255 (F	Part 3)	Nm³/hr		219		
4	Total Particulate Matter		IS 11255 (Part 1)		mg/Nm³	3	9.2		150
			15	.~	kg/day		0.048		
1	1 Ammonia		IS 11255 (F	IS 11255 (Part 6)		0.05	6.90		
					ppm		9.92		50
					kg/hr		0.0022	2	
1	Fluoride		IS 11255 (F	Part 5)	mg/Nm³	0.05	6.30		25
					ppm		8.11		
1	1		I		0.070				

#### Note:

- 1. \* MDL Minimum Detectible Limit.
- 2. \*\* BDL Below Detectible Limit.
- 3. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.
- 4. This Test Report refers only to the sample tested.
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Verified by:

Surekha Jamdar

Dy. Technical Manager

\*\*\*End of Report\*\*\*

kg/day

Issued by:

Shraddha Kere Technical Manager

0.0331



CIN: U74999MH2003PLC142228



			01/1011	1110111		1 1111		•		
Name o	f Organization	: M/s. [	Deepak Fertilise	ers And F	Petroc	chemicals	Corporation	Limited.		
Custom	er Address	: Taloja	Plant Plot K-1	, MIDC Ir	ndust	trial Area, I	P.O. Taloja	Dist. Raigad 41	0208 M	aharashtra
Custom	er Reference	: Work	Order no. 4800	055893,	, Date	ed 24.07.20	019			
Date	of Sampling	Sample F	Received Date Analysi		sis S	tart Date		s Complete Date	Report on Date	
1	1.09.2020	12.	09.2020	1:	2.09.	2020	15.	09.2020	1	5.09.2020
Sample	Туре :	Process C	Gas (Stack)			Sampling	done by	: Netel (India)	Limited	
Stack C	connected to :	Scrubber			5	Stack Diar	meter	: 1500 mm		
Samplii	ng Location :	LDAN Ver	nturi Scrubber			Sample Co	ode	: NIL/ST/09/20	0/002	
Sr. No.	. No. Parameters		Method			Unit	MDL*	Results	5	Consent Limits
1	Temperature		IS 11255 (F	Part 3)		°C		82.0		
2	Velocity of Gas		IS 11255 (F	Part 3)	r	m/sec		2.31		1000
3	Volumetric Flow	Rate	IS 11255 (F	Part 3)	١	lm³/hr		12319		
4	4 Particulate Matter		IS 11255 (Part 1)		m	ng/Nm³	3	7.0		100
					k	kg/day		2.070		
5	Ammonia		IS 11255 (F	Part 6)	m	ng/Nm³	0.05	6.4		
						ppm		9.19		50
						ka/hr		0.0788	3	

#### Note:

- 1. \* MDL Minimum Detectible Limit.
- 2. \*\* BDL Below Detectible Limit.
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- 5. 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\*\*\*

A Neterwala Group Company

CIN: U74999MH2003PLC142228

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





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 MaharashtraCustomer Reference: Work Order no. 4800055893, Dated 24.07.2019

Date of SamplingSample Received DateAnalysis Start DateAnalysis Complete DateReport on Date11.09.202012.09.202015.09.202015.09.2020

 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

Sampling Location Consent Method Sr. No. **Parameters** MDL\* Results Unit Limits °C IS 11255 (Part 3) Temperature 84.0 2 IS 11255 (Part 3) Velocity of Gas m/sec 1.84 3 Volumetric Flow Rate IS 11255 (Part 3) Nm³/hr 1776 \_\_\_ 4 Particulate Matter IS 11255 (Part 1) mg/Nm<sup>3</sup> 3 11.6 100 kg/day 0.494 5 Ammonia IS 11255 (Part 6) mg/Nm<sup>3</sup> 0.05 9.9 14.21 50 ppm --kg/hr 0.0176

#### Note:

- 1. \* MDL Minimum Detectible Limit.
- 2. \*\* BDL Below Detectible Limit.
- 3. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.
- 4. This Test Report refers only to the sample tested.
- 5. 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\*\*\*



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

oampin	ng Education . Throat		- Journal	0000	. ITTER OTTOOLE OF COT		
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)	Nm³/hr		54125		
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm³	3	0.0		
			ppm		0.0		
			kg/day		0.0		
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm³	3	14.2	350	
			ppm		7.5		
			kg/day		18.45		
- 6	Carbon Monoxide	USEPA - 10A	mg/Nm³	4	41.1		
			ppm		35.9		
			kg/day		53.39		

#### Note:

- 1. \* MDL Minimum Detectible Limit.
- 2. \*\* BDL Below Detectible Limit.
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- 5. 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

Elcere

**Technical Manager** 

\*\*\*End of Report\*\*\*

A Neterwala Group Company

CIN: U74999MH2003PLC142228

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



# Annexure 2: 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

			Leq (		
Sr. No.	Sr. No. Location		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:

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

Verified by:

Issued by:

Surekha Jamdar

Dy. Technical Manager

Shraddha Kere Technical Manager

\*\*\*End of Report\*\*\*

CIN: U74999MH2003PLC142228





#### 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 MaharashtraCustomers Reference: Work Order no. 4800055893, Dated 24.07.2019

Instrument Model: Lutron SL-4033-SD (Class 1)Instrument Serial No. : Q640792Date of Sampling: 31.07.2020Date of Calibration: 27.09.2019Date of Reporting: 03.08.2020Next Calibration Due : 28.09.2020

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

#### Note:

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

Verified by:

Issued by:

Surekha Jamdar

Dy. Technical Manager

Shraddha Kere Technical Manager

\*\*\*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 MaharashtraCustomers Reference: Work Order no. 4800055893, Dated 24.07.2019

Instrument Model: Lutron SL-4033-SD (Class 1)Instrument Serial No. : Q640792Date of Sampling: 09.09.2020Date of Calibration: 27.09.2019

Date of Reporting : 11.09.2020 Next Calibration Due : 28.09.2020

Date of Reporting		MARKAN MINITED CONTROL OF THE				
			Leq (dBA)			
Sr. No.	Location	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:

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

Verified by:

Surekha Jamdar

Dy. Technical Manager

Issued by:

Shraddha Kere

Technical Manager

\*\*\*End of Report\*\*\*



CIN: U74999MH2003PLC142228



## **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

			Leq (dBA)			
Sr. No.	Location	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:

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

Verified by:

Issued by:

Surekha Jamdar

Dy. Technical Manager

Shraddha Kere

Technical Manager

\*\*\*End of Report\*\*\*

A Neterwala Group Company

W-408, Rabale MIDC, TTC Industrial Area, NAVI MUMBAI - 400 701. INDIA. Tel.: + 91 022 2760 7102 / 2760 7103

Fax: + 91 022 2760 7100

E-mail : sales@netel-india.com Website : www.netel-india.com

CIN: U74999MH2003PLC142228



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



# **Annexure 3: CSR Report**



## 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	
	<b>5</b> 1	(Ambrnath)	
23	Panvel	Pale BK	1
	Panvel		Walvali
	Panvel		Kolwadi
24	Panvel	Khanav	
25	Ambarnath	Kumbarli	
26	Panvel	Talojamajkur	DI
	Panvel		Dharna
27	Panvel Panvel	T1-1	Pethali
27 28	Panvel Panvel	Turbhe	
		Siddhikarvale	
29 30	Panvel Ambarnath	Morbe	
		Karvale KH	
31 32	Panvel Panvel	Wagani (TT)	
34	Panvel	Karmbeli	Pholyophiyyadi
			Bhalyachiwadi
22	Panvel	Vh air 1'	Yelmar
33	Panvel	Khairwadi	Eongree di
	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.

The proposed project thus primarily aims at the following:

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



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

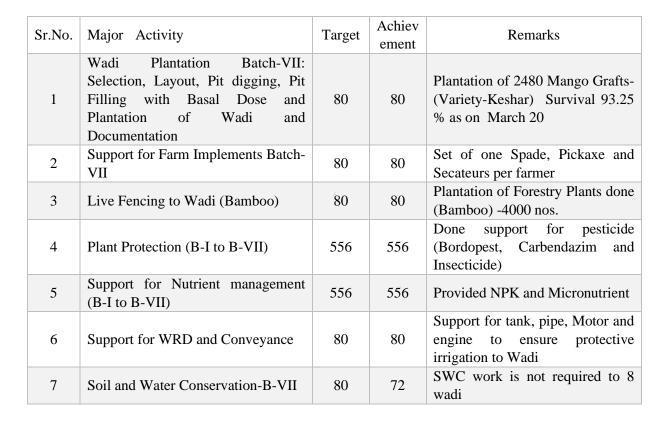
#### **Project Activities:**

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

#### Objectives are highlighted below:

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

#### **Major Achievements:**





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
Capaci	ity 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	Achiev ement	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.

<b>Total Artificial Insemination Report Since Inception:</b>							
	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:**

<u>-</u>	cine venicites.					
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 24 <sup>th</sup> Jun, 20 <sup>th</sup> Aug 2019 and 24 <sup>th</sup> 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	Average Monthly	Annual	Impact
Given	Income	Income	
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.



Sr.	Activity	Plan	Achie	Remark	
No			vement		
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	<ul> <li>Venue: Sanjay Gandi Madhyamic High school-Kolvadi, RZP School- Valvali and Sudhagad High School and RZP school Chindren</li> <li>Dates of Camps: 23d Aug, 29th Nov 2019 and 31st Jan 2020, respectively.</li> <li>Total Students Screened: 984 Spectacles distributed to 13 student, 73 students were referred to LCT for further treatment and diagnosis.</li> </ul>	
04	Kitchen Garden	400	400	Vegetable seed distributed to families from project area.	
05	Mahila Melava	02	01	Conducted Mahila Melava on 17 <sup>th</sup> 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.	

• Doorstep Health Services with free medicine

5985

Objective: To improvement of health by providing doorstep health services through mobile clinic.

Villages Covered: 22 (More than 30000 Population)

Second Event cancelled due to COVID-19.

• Health Awareness Referral Services











#### **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 <i>Taloja</i> ( <i>Maharashtra</i> ).
02	Infrastructure Development	02 School	02 School	<ul> <li>Installation of blocks at primary school from Suva village of <i>Dahej (Gujrat)</i>.</li> <li>Donation of Steel to MADP School, Kalamboli for Construction.</li> </ul>
03	Support for Manpower of School	01	01	Appointed one teacher (Math & Science) to fulfill requirement of Rahiyad Secondary school of <i>Dahej MIDC (Gujrat)</i> . (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 ( <i>Dehej</i> , <i>Gujrat</i> ).

<b>Support for Disaster</b>	<u>Management</u>
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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	<ul> <li>Donation to Donkey Sanctuary Welfare Association (DSWA) for:         <ul> <li>To provide health related support to Donkeys which leads to increase or to start income to the affected families.</li> <li>Provide doorstep health services to animals.</li> <li>Provide feed and fodder support to 5000 donkeys</li> </ul> </li> </ul>	5000 Donkeys	5000 Donkeys	Support Given of Rs. 5 Lakh. (500 Families)

03	Support done for watershed work	1071	1071 Families	Rs.10 Lakh donated
	to Mardi village of Maan Block,	families		for completion of
	Satara District.			watershed work.
	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.			

## Helmet Distribution to Taloja Police Station Employees



# 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



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







## **Employee Engagement**





#### 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.





