SMARTCHEM TECHNOLOGIES LIMITED

STL-K1/EHS/Env/2021-22/4 Date: 24-May-21

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 (F.No. J-11011/167/2016-IA II (I), dt 02.09.2019, EC transfed to M/s. Smartchem Technologies Limited on 18.12.2020

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 **October-2020 to March -2021**.

This is for your information and records please.

Thanking you,

Yours faithfully,

For, SMARTCHEM TECHNOLOGIES LTD.,

DEEPAK PANDE
Head (EHS)

CC :

1. SRO, MPCB, Raigad Bhavan, 7th Floor, Sector-11, CBD-Belapur, Navi Mumbai – 400614.
2. Ministry of Environment, Forest, 1st Floor, New Administrative Building, Mantralaya, Mumbai – 400032.
3. CPCB Parivesh Bhawan, Opp. VMC Ward Office No. 10, Shubhanpura, Vadodara, Gujarat 390023.

DATA SHEET			
1		Project type: River - valley/ Mining / Thermal/ Industry / Nuclear/ Other (specify)	Industry
2		Name of the project	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. EC transferred to M/s Smartchem Technologies Limited on 18.12.2020
3		Clearance letter (s) /OM No. and Date	EC granted for for NPK Fertilizer Manufacturing Unit 11.25 Lakhs MTPA Project vide no. F. No. J-11011/167/2016-IA II (I) datd. 02.09.2019, EC transferred to M/s Smartchem Technologies Limited on 18.12.2020
4		Location	
	a.	District (S)	Raigad
	b.	State (S)	Maharashtra
	c.	Latitude/longitude	19°03'57.6"N/73°07'58.8"E
5		Address for correspondence	
	a.	Address of Concerned Project Chief Engineer (with pin code & Telephone/ telex/ fax numbers	Mr. Deepak Pande (Sr.GM-EHS), M/s Smartchem Technologies Limited. Plot No. K-1, MIDC Industrial area, Taloja, District Raigad – 410208, Maharashtra. Phone: - 022-50684221, 9920942161
	b.	Address of Executive Project: Engineer/Manager (with pincode/ Fax numbers)	Same as above
6		Salient features	
	a.	of the project	
	b.	of the environmental management plans	Annexure-A (Sailent Feature of Project)
7		Break up of the project area	Annexure-B (EMP of Project)
	a.	submergence area forest & non forest	NA, (MIDC Land)
	b.	Others	NA
8		Break up of the project affected Population with enumeration of Those losing houses/dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan	NA, (MIDC Land)
	a.	SC, ST/Adivasis	NA, (MIDC Land)
	b.	Others (Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey)	NA
9		Financial details.	
	a.	Project cost as originally planned and subsequent revised estimates and the year of price reference	190 Crores
	b	Allocation made for environmental management plans with item wise and year wise Break-up.	**Yes.** **Year 2020-21 for Plot K-1 to K-8.** 1)Rs. 5 lakhs for Installation 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 11) Rs. 145 lakhs for CSR activities including Green belt
	c.	Benefit cost ratio/Internal rate of Return and the year of assessment	-
	d.	Whether (c) includes the Cost of environmental management as shown in the above.	Yes
	e.	Actual expenditure incurred on the project so far.	It is an examption project from 3.25 LMTPA to 9.25 LMTPA (addtion aof 6 LMTPA) to 11.24 LMTPA of multiple grade fertilziers production. We have completed activities up to 9.25 LMPTA and for balance 2 LMTPA we are in project stage.
	f.	Actual expenditure incurred on the environmental management plans so far	For evironment we have invested in OCMES system, installed new weather monitroing station, and in continutaiton to our ealier investment on green belt we are further addting new area along the plant premises for green belt development.
10		Forest land requirement	NA, (MIDC Land)
	a.	The status of approval for diversion of forest land for non-forestry use	NA, (MIDC Land)
	b	The status of compensatory afforestation program in the light of actual field experience so far	NA, (MIDC Land)
11		The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information	NA, (MIDC Land)
12		Status of construction	It is an examption project from 3.25 LMTPA to 9.25 LMTPA (addtion aof 6 LMTPA) to 11.24 LMTPA of multiple grade fertilziers production. We have completed activities up to 9.25 LMPTA and for balance 2 LMTPA we are in project statge.
	a.	Date of commencement (Actual and/or planned)	Exapnation project is in process
	b.	Date of completion (Actual and/of planned)	Exapnation project is in process
13		Reasons for the delay if the Project is yet to start	We are working as per plan.
14		Dates of site visits	Exapnation project is in process
	a.	The dates on which the project was monitored by the Regional Office on previous Occasions, if any	NA
	b.	Date of site visit for this monitoring report	NA
15		Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits)	NA

1 INTRODUCTION AND BACKGROUND

Deepak Fertilisers and Petrochemicals Corp. Ltd. (DFPCL) proposed the expansion unit for manufacturing of multiple grades of NPK fertilizer making overall capacity – **11.25 lacs MTPA** at Plot No. K-1 to K-5, Taloja M.I.D.C., Village Tondre, Taluka Panvel, District Raigad, State Maharashtra.

1.1 PURPOSE OF THE REPORT

Purpose of the report is to identify environmental aspects, impacts & mitigation measures arising out from the proposed Greenfield multipurpose plant for manufacturing of various complex fertilizer and prepare EIA/EMP and RA/DMP report as per ToR issued by MoEFCC on 21th September, 2016 and seek environmental clearance.

This report is prepared based on 'General Structure of EIA' given in Appendix III and IIIA of mentioned EIA Notification.

1.2 IDENTIFICATION OF PROJECT PROPONENT & PROPOSED PROJECT

1.2.1 Project Proponent & Existing Unit

The Deepak Group of Industries came in to existence during 1970's when Mr. C.K. Mehta set up Deepak Nitrite Ltd. Since then the company grew up by leaps and bounds, and won many prestigious awards like Sir P.C. Ray award, for being the best Chemical Industrial unit in India.

In 1983, Deepak Fertilizers and Petrochemicals Corporation Limited (DFPCL) started commercial production of ammonia (in technical collaboration with Fish International Engineers (USA), using natural gas as feed stock. This marked the fulfilment of a need for lateral integration into the world of basic building block chemicals, premium fertilizers and petrochemicals. At that time, this was India's only merchant ammonia manufacturer. The International Finance Corporation initially supported this venture of Deepak group in the form of equity participation in DFPCL.

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

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

DFPCL has a chemical storage terminal at Jawaharlal Nehru Port Trust (JNPT) to provide support to its logistics management system and ensure a window to the world trade in chemicals. DFPCL was one of the first companies in India to have its own gas NG pipeline (43 Km) from the coastal fall point of Bombay High to its plants in Taloja. It is in the process of adding new storage facilities for Ammonia, Methanol and other products.

In year 2015-16, DFPCL clocked Turnover of INR 4,000 Crore.

1.2.2 Proposed Project

DFPCL is now proposing an expansion unit for manufacturing of multiple grades of NPK fertilizer making overall capacity – 11.25 lakh MT per annum at its Taloja facilities.

As per the EC issued dated 12.10.2015, DFPCL is constructing multiple grades NPK fertilizer (Granulation) plant with a capacity of 6 Lakh MTPA. DFPCL manufactures ANP Fertilizer (Prilling Unit) with capacity of 3.25 Lakhs MTPA in existing complex, which is in operation since 1989.

In earlier EC approval phase DFPCL had proposed to discontinue existing ANP plant due to non-availability of required quality Phosphoric Acid. Now as DFCPL has the required sources of Phosphoric Acid and enhanced persistent demand of Prilled ANP in the local market DFPCL wish to continue with the manufacturing of ANP (Prilled) Fertilizer.

Capacity of NPK Granulation plant under construction has got inbuilt additional operating capacity of 2 Lakhs MTPA (2 no. trains) so at to take total capacity to 8 lakhs MTPA. Reference Letter from Technology Licensor provided in ***Annexure 1***.

With existing ANP plant (Prilling Unit) capacity 3.25 Lakhs MTPA and proposed NPK (Granulation) capacity utilization up to 8 Lakhs MTPA, overall fertilizer production will be 11.25 Lakh MTPA.

Utilization of this available operating capacity will not have any additional environmental impact as the plant is designed on the basis of Zero liquid discharge and systems are designed to control additional emissions from stack.

While there in no change in the process plant section in order to handle 11.25 Lakh MTPA like RM storage, finished goods storage, handling, Auto-bagging and truck loading system. The Bagging section is designed with adequate & efficient dust extraction systems and will be in dust free environment.

Project is for manufacturing of fertilizer products. Thus, the proposed products falls under *5(a), Chemical Fertilizers,* 'Project or Activities' listed within the Category to the EIA Notification dated September 14th, 2006 (amended till date). This project is classified as Category "A" project.

1.3 BRIEF DESCRIPTION OF PROJECT & ITS IMPORTANCE TO THE COUNTRY & REGION

1.3.1 Brief Description of the Project

The brief description of the project is given in ***Table 1-1***.

Table 1-1: Brief Description of the Project

S No.	Details	Description
1	Nature	Expansion unit for manufacturing of multiple grades of NPK fertilizer, overall capacity – 11.25 lakh MT per annum
2	Size	Plot Area: 3,03,619 m^2. Product and their capacities are shown in ***Table 2-3***.
3	Location	Plot No. K-1 to K-5, Taloja M.I.D.C., Village Tondre, Taluka Panvel, District Raigad, State Maharashtra.
4	Cost of the project	~ INR 190 Crore

10 ENVIRONMENTAL MANAGEMENT PLAN

This chapter describes the administrative aspects of ensuring that mitigative measures are implemented and their effectiveness monitored, after approval of the EIA.

10.1 INTRODUCTION

The EIA study for the proposed project has identified impacts that are likely to arise during different phases of the project. The study has also examined the extent to which the adverse impacts identified can be controlled through the adoption of mitigation measures. The Environment Management Plan describes both generic good practice measures and site-specific measures, the implementation of which is aimed at mitigating potential impacts associated with the proposed activities.

10.2 PURPOSE OF EMP

The environment management plan is prepared with a view to facilitate effective environmental management of the project, in general and implementation of the mitigation measures in particular. The EMP provides a delivery mechanism to address potential adverse impacts and to introduce standards of good practice to be adopted for all project works. For each stage of the programme, the EMP lists all the requirements to ensure effective mitigation of every potential biophysical and socio-economic impact identified in the EIA. For each impact or operation, which could otherwise give rise to impact, the following information is presented:

- Role of DFPCL and its contractors;
- A comprehensive listing of the mitigation measures (actions) that DFPCL will implement;
- The parameters that will be monitored to ensure effective implementation of the action;
- The timing for implementation of the action to ensure that the objectives of mitigation are fully met.

10.3 ENVIRONMENT MANAGEMENT PLAN

10.3.1 Air Environment

Properly designed and appropriate air pollution control equipment will be attached to process vents. Effective measures will be taken to control fugitive emissions. Emission control measures will be taken to ensure air emission standards and norms are strictly followed.

10.3.2 Water Environment

The wastewater generated from the proposed unit will be treated in two ETPs followed by RO and the treated water will be completely recycled and reused in plant premises resulting Zero Liquid Discharge. Rainwater harvesting from rooftop of administrator building and green belt shall be done.

Quantity of Rain water collected depends upon:

- Average annual rainfall intensity
- Run-off coefficient

For rainwater collection calculations, Plant areas are excluded due to having chances of rainwater contamination.

The nearest IMD station is Mumbai (Colaba) having average annual rainfall 2,184.1 mm/annum and maximum rainfall intensity is 575.6 mm/day.

Based on IMD data, detailed rain water availability calculation is given below ***Table 10-1.***

As per area breakup, greenbelt, road area, administration and security building is consider for rainwater collection.

Table 10-1: Calculation of Available Rainwater

Description	Area in m^2	Maximum rainfall intensity per annum In m/annum	Maximum rainfall intensity per annum In m/day	Runoff coefficient	Total rainwater In m^3/annum	Maximum rainwater In m^3/day
Roof top	814.66	2.184	0.575	0.8	1,423.43	375.13
Paved	6,795	2.184	0.575	0.5	7,420.47	1,955.60
Green belt	60,562	2.184	0.575	0..2	26,453.48	6,964.63
Total					**35,297.38**	**9,295.36**

At present, the source is MIDC water source supply. Maximum utilization of rainwater, by using possible system/methodology, is the only option. In existing plant, roof water is collected and used in cooling tower.

It is suggested to store and use maximum available rainwater to reduce the fresh water consumption.

The rainwater availability calculations shows 1,423.43 m^3 rainwater will be available annually from roof top run off which can be put to recharge through injection wells.

The rainwater availability calculations shows 33,873.95 m^3 rainwater will be available annually from Green and road area and for one day maximum value will be 8,920.23 m^3. It is advisable to divert this surplus water into water reservoir for reuse.

For assessing the impact of the development both the pre and post project stage information on various parameters of water quality and quantity is necessary and therefore for collecting this information, construction of piezometers are recommended.

- In order to assess its effectiveness, observation piezometer wells need to be constructed near ETP/storage area
- These Piezometer wells can be tested to monitor water level fluctuations and water quality variation with respect to space, depth and time. Periodic water level measurement (Pre& Post Monsoon i.e. May & Oct.) and water sample collection for its analysis to monitor water quality variation, if any is recommended.

10.3.3 Land and Soil Environment

Management of Solid Hazardous Waste will be ensured by taking care of the following steps:

- Properly designed storage area for hazardous waste with adequate capacity will be ensured;
- Prior permissions for TSDF will be taken and prior agreements with authorized vendors shall be made;

- Discarded container, drums, packing material etc. shall be decontaminated and sold to authorized vendors;
- Used/spent oil will be disposed to CPCB authorized Recyclers, Waste/residue containing oil disposed off to CHWIF;
- Contaminated hand gloves, discarded containers / barrels / bags shall be sold to authorized vendors;
- Scraps, used spares, cotton waste, contaminated hand gloves, discarded containers / barrels / bags shall be sold to authorized vendors.

Environmental Monitoring Plan for suggested mitigation measures and monitoring plan will include:

- Proper hazardous waste inventory accounting by HSE department;
- Monthly review by plant head in the production meeting;
- Monitoring for reduction in generation of hazardous waste quantity by director;
- Internal audit of hazardous waste storage area as per ISO system;
- Compliance of statutory conditions & reporting in environmental audit report;
- Reviewing time bound action plan for imparting training to drivers and availability of TREM cards.

10.3.4 Ecology and Biodiversity Environment

Proposed expansion (capacity expansion) will take place within existing project boundary. No extensive clearing of floral components will be required so no significant or permanent impact on the habitat structure of associated faunal diversity is expected. Factory premises possess already undergone will developed greenbelt which provides habitat for urban biodiversity (especially small mammals and birds). All ecologically sensitive attributes are out of impact zone. Plantation has been suggested under conservation plan in this forest area to improve habitat status of the forest area. Altogether, proposed expansion activity may not have influence on the biological components significantly provided that the suggestions / recommendations in this report are implemented. Strict implementation of EMP / mitigation measures are required to ensure that the biodiversity of the study area should not impacted negatively.

10.3.5 Socio Economic Environment

During the field survey it is revealed that none of the households are likely to be affected by the proposed expansion project. The Deepak Fertilizers and Petrochemical Corporation is already existing in Taloja, MIDC area since last 35 years. In this settlement maximum population is the migratory hailing from within or outside state. The Community Development programme can be conducted under CSR Scheme by DFPCL for the infrastructural and socio-economic development of the nearby areas. Thus it may help the project proponent to have better rapport with the localities'.

Issues Raised and Mitigation Measures Suggested

The social issues raised and mitigation measures suggested during the social survey for the proposed projects is presented in the below given ***Table 10-2***.

Table 10-2: Issues Raised and Mitigation Measures Suggested

Social Component	Issues Discussed / Raised	Mitigation / Enhancement Measures
Health and Hygiene	• Presence of Odour smell and gas emissions from the existing industrial units of Taloja MIDC, area. • The medicines supplied through state the government in the Vavenja Village PHC is inadequate. • Medical/Health check-up camps to be arranged at regular interval in all the surrounding villages by DFPCL.	• Regular Monitoring will be carried out by the Compliance Agency with strict follow up of CPCB Guidelines and other regulatory agencies/NGO. • The DFPCL will take initiative to improvise the generic medicine distribution under CSR Scheme in consultation with the Medical Officer. • DFPCL's HR /CSR Department will organise the medical camps at regular interval for the surrounding habitation.
Safe Drinking Water	• Provision of RO water for School children. • Tap connection for all the Anganwadi and Primary Schools in the village falling in the close proximity of the industrial area.	• Local bodies/HR (Administration) department needs to monitor regular supply of drinking water and provide new tap connection with regular supply of water under CSR Scheme.
Education	• Installation of Children play equipments at open space of RZP primary school ground of Pale Khurd village. • Distribution of about 1200 Nos. of school uniforms for Anganwadi and primary schools children of Pale Khurd, Padghe, Pender, Valap and Devichapada village. • Supply of overhead projectors for teaching students in the RZP primary schools of Devichhapada, Pale Khurd, Kanpoli, Valap, Pendhar, Padghe, Vavanje etc. • Distribution of furniture like tables, plastic chairs, Ceiling fans, Rack for shoes, sound system etc. • Supply of water filter for Anganwadi and other educational institutions. • Supply of sports equipment in different Schools/Colleges of the nearby areas.	• DFPCL will consider the requirement under CSR Scheme after conducting need based assessment.
Infrastructure Development	• Renovation of School Building at RZP at Devichhapada and Pale Khurd Village. • Provision of water tank with piped water facility for toilets at the RZP primary schools located at Padghe, Devichhapda village. • Construction of 2 Nos. classroom and flooring of the existing classroom at RZP Primary School, Pale Khurd.	• The DFPCL will adopt the primary schools of the villages falling in the close proximity of the proposed site for regular renovation & maintenance of School Building, toilets under company's CSR Scheme. • The DFPCL will undertake the work under CSR Scheme in phase wise manner seeing the priority and availability of fund.

Social Component	Issues Discussed / Raised	Mitigation / Enhancement Measures
	• Up gradation of the internal village road in consultation with the MNP/Panchayat at Devichapda, Pale Khurd, Vavenje village in phasewise manner.	

Proposed CSR Activities (Based on Individual Interview, Group Discussion and Visual Perception)

Based on the socio-economic survey and stakeholder consultation the following social concerns have been identified with respect to the general condition of the nearby residents/villages of study area:-

- Maximum numbers of migratory labourer in Taloja MIDC area hailing from within and outside state.
- Inadequacy of sanitation facilities and personal hygiene practices;
- Provide piped tap water to the various toilets of RZP primary school.
- Distribution of education aids to the anganwadi and primary school which is in the close proximity of the proposed site.
- Odour smell and effluent discharge from the industrial premises to creek during monsoon season;
- Improvement in the infrastructural development by the DFPCL through CSR Scheme.
- Increase in the employment opportunities for the local people with the development work both as construction worker as well as service provider.

Budgetary Provision for CSR Activities

On the basis of total capital investments, the project proponent earmarks more than INR 4.75 Crores for the following CSR/social developmental activities. The allocated amount may vary time to time on the need based CSR in the surrounding areas of the proposed project.

Table 10-3: Budget Allocation for Implementation of CSR Activities (Break up of 5 Years)

S. No.	Proposed Activity	Year wise allocation of Fund (INR In Lakh)					
		2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Total Amount
1	Educational Activities	17.10	18.81	20.69	22.76	25.04	104
2	Medical & Health Facilities	12.15	13.37	14.70	16.17	17.79	74
3	Safe Drinking Water	16.05	17.66	19.42	21.36	23.50	98
4	Infrastructure Facilities	20.25	22.28	24.50	26.95	29.65	124
5	Skill Development/ Training	12.20	13.42	14.76	16.24	17.86	74
	Total Amount per Year	**77.75**	**85.53**	**94.08**	**103.49**	**113.83**	**475**
Total provision for 5 years - Rupees Four Hundred Seventy Five Lakhs (INR 4.75 Crores)							

The CSR plan has been made by taking into account of the feedback/expectation received during FGDs and Community Consultation at various location in the study area.

Conclusion

The other additional activities shall be undertaken as part of community development programme based on the availability of funds and other resources. These activities are highlighted as below:

- Providing Tricycle to the handicapped and physically challenged groups after Need Based Social Assessment;
- Providing fishing net for the fisherman communities;
- Imparting of suitable, need based and justifiable vocational training programmes to the nearby local residents;
- The safe supply of drinking water or providing RO plant where aftercare and maintenance can be taken care by the Panchayat/institution;
- Up gradation of the internal village roads and construction of Anganwadi in consultation with the Panchayat;
- Installing latest technology equipment's to control the air pollution;
- Arranging health check-up camps at the regular intervals;
- Providing basic amenities in the slum/migratory colonies to improve their quality of life;
- Most of the mitigation measures can be enhanced by adopting proper Grievance Handling Mechanism by the project proponent and proper implementation of Community Development activities at regular interval in the surrounding area. Adherence to community consultation and interactions with the local community will reduce the social issues and conflicts; to within acceptable levels.

Environment Clearance for NPK Fertilizer Manufacturing Unit 11.2 Lakhs MTPA dated 12.10.2015 (F.No. J-11011/167/2016-IA II (I), dt 02.09.2019, EC transfed to M/s. Smartchem Technologies Limited on 18.12.2020 by MoEF, IA Div., Indra Paryavaran Bhavn, Jor baug road, Delhi - 110 003.

SN	Specific Conditions	Status of compliance as on 31/03/2021
a	Necessary permission as mandated under WPCPA-1974 & APCPA-1981, as applicable from time to time, shall be obtained from the SPCB.	This is an expantion project and we have got consolidated CTO for 6 LMPTA multiple grade fertilziers (MGF) comprising of NPK and ANP from MPCB. For 2 LMTPA of MGF we are in process of beining project activities. We will apply for necessary permission once we start project activites.
b	Necessary permission required under the HW and other waste (Mgt & transboundary movement) Rules 2016, shall be obtained and the provision contained in the rules shall be strictly adhered to.	This is an expantion project and we have got consolidated CTO for 6 LMPTA multiple grade fertilziers (MGF) comprising of NPK and ANP from MPCB. For 2 LMTPA of MGF we are in process of beining project activities. We will apply for necessary permission once we start project activites.
c	To control source and the fugitive emission, suitable pollution control devices shall be installed to meet the prescribed norms and / or the NNAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB / SPCB guidelines	We have satcks for existing NPK (MGF) plant with stacks height is as per CPCB / MPCB guidelines, which is equiped with APCD and the stacks are also connected to CPCB / MPCB. The same stacks will be used for upcoming expasion project.
d	The green belt of 5 to 10 m width shall be developed in more than 33% of the total project area. Mainly along the periphery , in down wind direction and along the road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the state forest dept.	We got established in 1984 with sinlge plant of ammonia manufacturing and then go plorifared thorugh various expansion projects on 97 acre land. This resulted into land getting aquired for variou infarstructure and being located in MIDC we tried and got plots from MIDC on lease for green belt development. But still we will not able to reah to 33% and hence we have made an online application for amendment in this conditions.
e	National emission standard for fertilizer industry issued by the Ministry and amendment from time to time shall be followed.	Same is followed, process stacks are monitored through OCEMS as per the requirements.In addition thrid party lab sampling is also done.
f	10 meter wide green belt of perennial trees around periphery of the plant shall be developed.	Trees are planted along the periphery is done with local species for their sustainability.
g	Fresh water requirement shall not exceed 17000 m3 / day from MIDC water supply and prior permission shall be obtained from the concerned authority	We are also focused on various natural resources conservation, but looking at our processes and it requirements, we are omtimestically reviewing this EC condition of fresher water reduction and for which we are conducting study with IIT, Mumbai, to evaluate possiblities for reducting in fresh water demand and effuent generatation. Based on the study report we will come back to you. Present consented fresh water quantity is 21343 m3/D.
h	Only 1500 m3/day WW shall be sent to CETP	As metnioned above we are also focused on various natural resources conservation, but looking at our processes and it requirements, we are omtimestically reviewing this EC condition of fresher water reduction and for which we are conducting study with IIT, Mumbai, to evaluate possiblities for reducting in fresh water demand and effuent generatation. Based on the study report we will come back to you. Present consented discharge is 4131 m3/D including domestic.
i	Closed cooling system shall be provided to the CT	Based of undeatnding these cooling towers are sutiable for lower volumes of cooling tower. But to evolve possiblity we are carrying out study with the help of IIT, Mumbai. Based on the report we will revert back.
j	As proposed adequate scrubber shall be provided to all reactors. Scrubber efficiency shall be > 99.9%	OEM of NPK have provided in built scrubber before process stacks for 6 LMPTA NPK plant and same will be sued for the expansion project.
k	1000 trees / year shall be planted during 5 years in nearby villages with the consultation of the villagers. Survival rate of plants shall be reported to RO, MOEFCC in 6 monthly compliance report.	We are concenred about the evrinroment proection and part of that we contiue to do plantation in and apound our plant premises incluing local villages, near by de-graded forest land. We will continue to mainain the same. As per EC condition we are investing around 50 lacs for 1000 trees planation in the nearby vilalges and for butification of MIDC area. To ensure their 95% seruvical we give AMC to the specialized agency.
l	The least 5% of the total cost of the project shall be earmarked toward the ESC (Enterprise Social Commitment) and shall be used only for providing laptops to the school student through school management.	We are activily carrining out various CSR activities for delveopment of local community viz., earning opprotunities through skill development, education facility, improvming education institues capabilites, creating earing avenues, etc. We will also working on ESC front but as we are brown field project and actually not green field proejct, we want to change the ESC % accordingly. For this we have applied for this condition amendment. Based on the outcome we will prepare action plan and exeucute the same.
m	A regular environment manager having PG qualification in environmental science / engg. to be appointed for looking after the environment management activities of the proposed plant.	Qualified evnrionment professionals are employed for environment management activities.
n	Scrubber to be provided to all emission sources.	OEM of NPK have provided in built scrubber before process stacks.
o	Continuous online (24X7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO, MOEFCC, CPCB & SPCB.	OCEMS is installed on outlet of treated effluent of ETP and the same is connected to MPCB & CPCB portals through OCEMS. Data is being uploaded on company website and every six monthly compliance same data is provided to RO, MOEFCC, CPCB & MPCB
p	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per The Factories Act.	Medical exmainaiton of employees and contractor persons are done every 6 months. Record is maintained.
q	The unit shall make the arrangement for protection of possible fire hazard during manufacturing process in material handling. Firefighting system shall be as per norms.	Firefighting systems like portable fire extinguishers, fire hydrants, sprinkler, smoke detectors provided as per norms.
r	The by-product which fall under hazardous waste rules, be handled as per the provision of the said rules and necessary permissions shall be obtained under the said rules.	No hazardous by-product is produced in NPK process.

	Generic Conditions	Status of compliance as on 31/03/2021
i	The PP must strictly adhere to the stipulation made by the SPCB, sate Govt. & / or any other statutory authority.	Noted and being complied
ii	No further expansion or modification in the plant shall be carried out without prior approval of MOEFCC. In case of deviation or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh refence shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measure required, if any.	Noted.
iii	The locations of AAQMS stations shall be decided in consultation with SPCB and it shall be ensure that at least one station each is installed in the upwind and down direction as well as where maximum ground level concentration are anticipated.	3 continuous online AAQMS stations are installed as per AAQMS standard (180 deg interval). Online data from the same trasmitted to MPCB portals. For the parameters which are not captured in the AAQMS system are tested monthly by thrid party lab. **(Annexure-1)**
iv	The NAAQES issued by the Ministry vide GSR No. 826 (E), dated 16.11.2009 shall be complied with.	Quarterly 12 parameters of AAQMS are monitored through thrid party MOEFCC approved lab. 3 AAQMS station contionusly monitor 6 parameters which are uploded on the MPCB portals. For the parameters which are not captured in the AAQMS system are tested monthly by thrid party lab.**(Annexure-1)**
v	The overall noise levels in and around the plant shall be kept well within the standard by providing noise control measure including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under EPA-1986, EPR-1989 viz. 75 dBA (day time) and 70 dBA (night time).	OEM'S have provided equipment with inbuilt control on the noise like silences, hood etc. Periodically Ambient Noise monitoring done by Third Party MOEF approved laboratory **(Annexure-2)**
vi	The company shall harvest rain water from the roof top of the buildings to recharge ground water, and to utilize the same for different industrial operations within the plant.	System for rain water harvesting is provided at existing WNA 3 & 4 plant.
vii	Training shall be imparted to all employees on S&H aspects of chemicals handled. Pre-employment and routine medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Training and refresher training are provided to employees and contractor on S&H topic including chemicals.
viii	The company shall comply with all the environmental protection measure and safeguard proposed in the documents submitted to the Ministry. All the recommendation made in the EIA / EMP in respect of environmental management, risk mitigation measure and public hearing shall be implemented.	Public hearing points compiled for 6 LMTPA MGF EC. Once the activites of exapnstion project of 2 LMTAP starts same will be complied with.
ix	The company shall undertake all measure for improving socio-economic conditions of the surrounding area. CSR activity shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measure shall be undertaken for overall improvement of the environment.	As a part of CSR various intiatives are taken involving villagers and other stack holders to meet socio-econmic objectives. **(Annexure-3)**
x	A separate environment management cell equipped with full-fledged laboratory facilities shall be set up to carryout the environmental management and monitoring function.	A separate environment management cell equipped with two labs QC & ETP avaible
xi	The company shall earmark sufficient funds toward capital cost and recurring cost per annual to implement the conditions stipulated by the MOEFCC as well as the state govt. along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management / pollution control measure shall not be diverted for any other purpose.	Noted.
xii	A copy of the clearance shall be sent by the PP to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions / representation, if any, were received while processing the proposal.	Same is being done.
xiii	The PP shall also submit 6 monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective RO, MOEFCC, the respective zonal officer of CPCB & MPCB. A copy of EC and 6 monthly compliance status report shall be posted on the company website.	Same is being done.
xiv	The EC for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned SPCB as prescribed under EPA-1986, as amended subsequently, shall also be put on the company website along with status of compliance of EC conditions and shall also be sent to respective RO, MOEFCC by e-mail.	Same is being done.
xv	The PP shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB / committee and may also be seen at website of the Ministry at http://moef.nic.in. This shall be advertised within 7 days from the date of issue of the clearance letter, at least in two local news papers that are widely circulated in the region of which on shall be in the vernacular language of the locality concerned and copy of the same shall be forwarded to the concerned RO of the Ministry.	Same is releaed in local news papers.

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

Annexure 1: Stack Monitoring Reports

TEST 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
16.10.2020	17.10.2020	17.10.2020	20.10.2020	20.10.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: WNA - 3 Process	Stack Diameter	: 953 mm
Sampling Location	: WNA - 3 Stack	Sample Code	: NIL/ST/10/20/015

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	132	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.36	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	4453	---
4	Oxides of Nitrogen	IS 11255 (Part 6)	mg/Nm^3	3	86.0	---
			ppm	---	154.8	---
			kg/day	---	9.191	---
			kg/ton of WNA	---	0.0316	3
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	21.40	---
			ppm	---	14.88	50
			kg/hr	---	0.0663	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
14.10.2020	15.10.2020	15.10.2020	19.10.2020	19.10.2020

Sample Type	: Flue Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: Boiler	**Stack Diameter**	: 1500 mm
Sampling Location	: Boiler A/B	**Sample Code**	: NIL/ST/10/20/011

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	---	6.70	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	33193	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	BDL	---
			ppm	---	BDL	---
			kg/day	---	BDL	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	135.5	350
			ppm	---	72.0	---
			kg/day	---	107.94	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	6.4	---
			ppm	---	5.6	---
			kg/day	---	5.10	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
14.10.2020	15.10.2020	15.10.2020	19.10.2020	19.10.2020

Sample Type	: Flue Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: GT-2	Stack Diameter	: 1500 mm
Sampling Location	: HRSG-2	Sample Code	: NIL/ST/10/20/012

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	103	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	10.67	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	53536	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	BDL	---
			ppm	---	BDL	---
			kg/day	---	BDL	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	114.0	---
			ppm	---	60.6	50
			kg/day	---	146.47	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	39.3	---
			ppm	---	34.3	---
			kg/day	---	50.50	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
14.10.2020	15.10.2020	15.10.2020	19.10.2020	19.10.2020

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/10/20/013

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Stack Temperature	IS 11255 (Part 3)	°C	---	138	---
2	Stack Gas Velocity	IS 11255 (Part 3)	m/sec	---	10.91	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	50078	---
4	Sulphur Dioxide	IS 11255 (Part 2)	mg/Nm^3	3	BDL	---
			ppm	---	BDL	---
			kg/day	---	BDL	---
5	Oxides of Nitrogen	IS 11255 (Part 7)	mg/Nm^3	3	275.0	---
			ppm	---	146.2	50
			kg/day	---	330.51	---
6	Carbon Monoxide	USEPA – 10A	mg/Nm^3	4	9.2	---
			ppm	---	8.0	---
			kg/day	---	11.06	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
16.10.2020	17.10.2020	17.10.2020	20.10.2020	20.10.2020

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: ANP Cyclone Seprator	**Stack Diameter**	: 1500 mm
Sampling Location	: ANP Cyclone Seprator	**Sample Code**	: NIL/ST/10/20/016

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**56.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**10.8**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**62068**	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**19.4**	150
			kg/day	---	**28.899**	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**15.70**	---
			ppm	---	**22.58**	50
			kg/hr	---	**1.4015**	---
6	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	**6.70**	25
			ppm	---	**8.62**	---
			kg/day	---	**9.9805**	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
16.10.2020	17.10.2020	17.10.2020	20.10.2020	20.10.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: ANP Vaccum Pumps	Stack Diameter	: 200 mm
Sampling Location	: ANP Vaccum Pumps	Sample Code	: NIL/ST/10/20/017

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**47.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**2.2**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**228**	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**7.6**	150
			kg/day	---	**0.042**	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**6.20**	---
			ppm	---	**8.92**	50
			kg/hr	---	**0.0020**	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	**5.50**	25
			ppm	---	**7.08**	---
			kg/day	---	**0.0301**	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
28.10.2020	29.10.2020	29.10.2020	02.11.2020	02.11.2020

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: NPK Train-1	**Stack Diameter**	: 2772 mm
Sampling Location	: NPK Train-1	**Sample Code**	: NIL/ST/10/20/060

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**60.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**11.7**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**226339**	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**12.6**	150
			kg/day	---	**68.445**	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**13.70**	---
			ppm	---	**19.70**	50
			kg/hr	---	**4.4589**	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	**BDL**	25
			ppm	---	**BDL**	---
			kg/day	---	**BDL**	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
28.10.2020	29.10.2020	29.10.2020	02.11.2020	02.11.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: NPK Train-2	Stack Diameter	: 2772 mm
Sampling Location	: NPK Train-2	Sample Code	: NIL/ST/10/20/061

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	62.0	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	12.1	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	232917	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	9.8	150
			kg/day	---	54.782	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	11.90	---
			ppm	---	17.12	50
			kg/hr	---	3.9875	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	BDL	25
			ppm	---	BDL	---
			kg/day	---	BDL	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
16.10.2020	17.10.2020	17.10.2020	20.10.2020	20.10.2020

Sample Type	: Process Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: Scrubber	Stack Diameter	: 1500 mm
Sampling Location	: LDAN Scrubber	Sample Code	: NIL/ST/10/20/018

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**58.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**1.72**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**9838**	---
4	Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**6.7**	100
			kg/day	---	**1.582**	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**8.0**	---
			ppm	---	**11.48**	50
			kg/hr	---	**0.0787**	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
16.10.2020	17.10.2020	17.10.2020	20.10.2020	20.10.2020

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/10/20/019

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**42.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**1.65**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**1805**	---
4	Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**10.3**	100
			kg/day	---	**0.446**	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**9.4**	---
			ppm	---	**13.49**	50
			kg/hr	---	**0.0170**	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
16.10.2020	17.10.2020	17.10.2020	20.10.2020	20.10.2020

Sample Type	: Flue Gas (Stack)	Sampling done by	: Netel (India) Limited
Stack Connected to	: Boiler	Stack Diameter	: 1900 mm
Sampling Location	: Coal Fired Boiler	Sample Code	: NIL/ST/10/20/021

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	104	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	4.34	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	34872	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	38.4	50
			kg/day	---	32.138	---
5	Sulphur Dioxide	IS 11255 (Part 6)	mg/Nm^3	0.05	1263.5	---
			ppm	---	461.1	---
			kg/day	---	1057.458	3200
6	Oxides of Nitrogen	IS 11255 (Part 5)	mg/Nm^3	0.05	237.4	350
			ppm	---	126.2	---
			kg/day	---	198.687	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
26.11.2020	27.11.2020	27.11.2020	30.11.2020	30.11.2020

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: ANP Prilling Tower	**Stack Diameter**	: 1655 mm
Sampling Location	: ANP Prilling Tower	**Sample Code**	: NIL/ST/11/20/056

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**42.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**28.2**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**204703**	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**21.8**	150
			kg/day	---	**107.101**	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**9.20**	---
			ppm	---	**13.23**	50
			kg/hr	---	**2.7082**	---
6	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	**0.26**	25
			ppm	---	**0.33**	---
			kg/day	---	**1.2773**	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
26.11.2020	27.11.2020	27.11.2020	30.11.2020	30.11.2020

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: LDAN Prilling Tower	**Stack Diameter**	: 1632 mm
Sampling Location	: LDAN Prilling Tower	**Sample Code**	: NIL/ST/11/20/055

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**55.0**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**2.2**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**15305**	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**5.5**	150
			kg/day	---	**2.020**	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**10.40**	---
			ppm	---	**14.96**	50
			kg/hr	---	**0.2290**	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
29.12.2020	31.12.2020	31.12.2020	04.01.2021	05.01.2021

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: NPK Train-1	**Stack Diameter**	: 2772 mm
Sampling Location	: NPK Train-1	**Sample Code**	: NIL/ST/12/20/069

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**64**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**11.4**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**217794**	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**10.3**	150
			kg/day	---	**53.839**	---
5	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**14.40**	---
			ppm	---	**20.71**	50
			kg/hr	---	**4.5105**	---
6	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	**BDL**	25
			ppm	---	**BDL**	---
			kg/day	---	**BDL**	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
29.12.2020	31.12.2020	31.12.2020	04.01.2021	05.01.2021

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: NPK Train-2	**Stack Diameter**	: 2772 mm
Sampling Location	: NPK Train-2	**Sample Code**	: NIL/ST/12/20/070

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**61**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**10.9**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**209930**	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**8.7**	150
			kg/day	---	**43.833**	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**16.10**	---
			ppm	---	**23.16**	50
			kg/hr	---	**4.8620**	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	**BDL**	25
			ppm	---	**BDL**	---
			kg/day	---	**BDL**	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
30.12.2020	31.12.2020	31.12.2020	04.01.2021	05.01.2021

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: LDAN Prilling Tower	**Stack Diameter**	: 1632 mm
Sampling Location	: LDAN Prilling Tower	**Sample Code**	: NIL/ST/12/20/073

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	57	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	2.1	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	13971	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	7.6	150
			kg/day	---	2.548	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	8.90	---
			ppm	---	12.80	50
			kg/hr	---	0.1788	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	BDL	25
			ppm	---	BDL	---
			kg/day	---	BDL	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST 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
30.12.2020	31.12.2020	31.12.2020	04.01.2021	05.01.2021

Sample Type	: Process Gas (Stack)	**Sampling done by**	: Netel (India) Limited
Stack Connected to	: ANP Prilling Tower	**Stack Diameter**	: 1655 mm
Sampling Location	: ANP Prilling Tower	**Sample Code**	: NIL/ST/12/20/074

Sr. No.	Parameters	Method	Unit	MDL*	Results	Consent Limits
1	Temperature	IS 11255 (Part 3)	°C	---	**43**	---
2	Velocity of Gas	IS 11255 (Part 3)	m/sec	---	**22.1**	---
3	Volumetric Flow Rate	IS 11255 (Part 3)	Nm^3/hr	---	**160186**	---
4	Total Particulate Matter	IS 11255 (Part 1)	mg/Nm^3	3	**18.8**	150
			kg/day	---	**72.276**	---
1	Ammonia	IS 11255 (Part 6)	mg/Nm^3	0.05	**11.70**	---
			ppm	---	**16.83**	50
			kg/hr	---	**2.6959**	---
1	Fluoride	IS 11255 (Part 5)	mg/Nm^3	0.05	**1.41**	25
			ppm	---	**1.81**	---
			kg/day	---	**5.4207**	---

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Process Stack	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: ANP Prilling Tower	**Stack Diameter**	: 1655 mm
Date of Sampling	: 07.01.2021	**Analysis Date**	: 09.01.2021 — 12.01.2021
Sample Received	: 09.01.2021	**Date of Reporting**	: 13.01.2021
Sampling Location	: ANP Prilling Tower	**Sample Code**	: NIL/ST/01/21/018

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	44	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	22.51	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	162627	Nm^3/hr	---	IS 11255 (Part 3)
4	Particulate Matter	17.7	mg/Nm^3	150	IS 11255 (Part 1)
		69.084	kg/day	---	
5	Ammonia	16.7	mg/Nm^3	---	IS 11255 (Part 6)
		24.0	ppm	50	
		2.716	kg/hr	---	
6	Fluoride	0.29	mg/Nm^3	25	IS 11255 (Part 5)
		0.37	ppm	---	
		1.132	kg/day	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Process Stack	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: LDAN Prilling Tower	**Stack Diameter**	: 1632 mm
Date of Sampling	: 07.01.2021	**Analysis Date**	: 09.01.2021 — 12.01.2021
Sample Received	: 09.01.2021	**Date of Reporting**	: 13.01.2021
Sampling Location	: LDAN Prilling Tower	**Sample Code**	: NIL/ST/01/21/017

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	59	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	2.33	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	15708	Nm^3/hr	---	IS 11255 (Part 3)
4	Particulate Matter	7.7	mg/Nm^3	150	IS 11255 (Part 1)
		2.903	kg/day	---	
5	Ammonia	8.1	mg/Nm^3	---	IS 11255 (Part 6)
		11.7	ppm	50	
		0.127	kg/hr	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Process Gas (Stack)	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: WNA - 1	**Stack Diameter**	: 953 mm
Date of Sampling	: 25.02.2021	**Analysis Date**	: 27.02.2021 — 02.03.2021
Sample Received	: 27.02.2021	**Date of Reporting**	: 03.03.2021
Sampling Location	: WNA - 1	**Sample Code**	: NIL/ST/02/21/165

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	**136**	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	**2.42**	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	**4527**	Nm^3/hr	---	IS 11255 (Part 3)
4	Oxides of Nitrogen	**14.9**	mg/Nm^3	---	IS 11255 (Part 6)
		26.8	ppm	---	
		1.619	kg/day	---	
		0.0073	kg/ton of WNA	3	
5	Ammonia	**20.4**	mg/Nm^3	---	IS 11255 (Part 6)
		29.3	ppm	50	
		0.0924	kg/hr	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Process Gas (Stack)	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: WNA - 2	**Stack Diameter**	: 953 mm
Date of Sampling	: 25.02.2021	**Analysis Date**	: 27.02.2021 — 02.03.2021
Sample Received	: 27.02.2021	**Date of Reporting**	: 03.03.2021
Sampling Location	: WNA - 2	**Sample Code**	: NIL/ST/02/21/166

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	**140**	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	**2.13**	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	**3946**	Nm^3/hr	---	IS 11255 (Part 3)
4	Oxides of Nitrogen	**16.4**	mg/Nm^3	---	IS 11255 (Part 6)
		29.5	ppm	---	
		1.553	kg/day	---	
		0.0060	kg/ton of WNA	3	
5	Ammonia	**17.4**	mg/Nm^3	---	IS 11255 (Part 6)
		25.0	ppm	50	
		0.0687	kg/hr	---	

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Process Gas (Stack)	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: WNA - 3	**Stack Diameter**	: 953 mm
Date of Sampling	: 25.02.2021	**Analysis Date**	: 27.02.2021 — 02.03.2021
Sample Received	: 27.02.2021	**Date of Reporting**	: 03.03.2021
Sampling Location	: WNA - 3	**Sample Code**	: NIL/ST/02/21/167

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	133	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	2.56	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	4825	Nm^3/hr	---	IS 11255 (Part 3)
4	Oxides of Nitrogen	10.9	mg/Nm^3	---	IS 11255 (Part 6)
		19.6	ppm	---	
		1.262	kg/day	---	
		0.0047	kg/ton of WNA	3	
5	Ammonia	22.3	mg/Nm^3	---	IS 11255 (Part 6)
		32.1	ppm	50	
		0.1076	kg/hr	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Process Gas (Stack)	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: WNA - 4	**Stack Diameter**	: 953 mm
Date of Sampling	: 25.02.2021	**Analysis Date**	: 27.02.2021 — 02.03.2021
Sample Received	: 27.02.2021	**Date of Reporting**	: 03.03.2021
Sampling Location	: WNA - 4	**Sample Code**	: NIL/ST/02/21/168

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	**127**	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	**2.58**	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	**4935**	Nm^3/hr	---	IS 11255 (Part 3)
4	Oxides of Nitrogen	**8.9**	mg/Nm^3	---	IS 11255 (Part 6)
		16.0	ppm	---	
		1.054	kg/day	---	
		0.0026	kg/ton of WNA	3	
5	Ammonia	**23.2**	mg/Nm^3	---	IS 11255 (Part 6)
		33.4	ppm	50	
		0.1145	kg/hr	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.				
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra				
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019				
Sample Type	: Process Stack	**Sampling Done By**	: Netel (India) Limited		
Stack Connected to	: LDAN Prilling Tower	**Stack Diameter**	: 1632 mm		
Date of Sampling	: 26.02.2021	**Analysis Date**	: 01.03.2021 — 04.03.2021		
Sample Received	: 01.03.2021	**Date of Reporting**	: 05.03.2021		
Sampling Location	: LDAN Prilling Tower	**Sample Code**	: NIL/ST/02/21/182		

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	62	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	2.03	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	13563	Nm^3/hr	---	IS 11255 (Part 3)
4	Particulate Matter	10.2	mg/Nm^3	150	IS 11255 (Part 1)
		3.320	kg/day	---	
5	Ammonia	11.3	mg/Nm^3	---	IS 11255 (Part 6)
		16.3	ppm	50	
		0.153	kg/hr	---	

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.				
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra				
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019				
Sample Type	: Process Stack	**Sampling Done By**	: Netel (India) Limited		
Stack Connected to	: LDAN Venturi Scrubber	**Stack Diameter**	: 1500 mm		
Date of Sampling	: 26.02.2021	**Analysis Date**	: 01.03.2021 — 04.03.2021		
Sample Received	: 01.03.2021	**Date of Reporting**	: 05.03.2021		
Sampling Location	: LDAN Venturi Scrubber	**Sample Code**	: NIL/ST/02/21/184		

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	**82**	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	**2.19**	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	**11664**	Nm^3/hr	---	IS 11255 (Part 3)
4	Particulate Matter	**10.3**	mg/Nm^3	150	IS 11255 (Part 1)
		2.883	kg/day	---	
5	Ammonia	**9.7**	mg/Nm^3	---	IS 11255 (Part 6)
		14.0	ppm	50	
		0.113	kg/hr	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Process Stack	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: G P Vent	**Stack Diameter**	: 640 mm
Date of Sampling	: 26.02.2021	**Analysis Date**	: 01.03.2021 — 04.03.2021
Sample Received	: 01.03.2021	**Date of Reporting**	: 05.03.2021
Sampling Location	: G P Vent	**Sample Code**	: NIL/ST/02/21/183

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	**86**	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	**2.33**	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	**2234**	Nm^3/hr	---	IS 11255 (Part 3)
4	Particulate Matter	**12.7**	mg/Nm^3	150	IS 11255 (Part 1)
		0.681	kg/day	---	
5	Ammonia	**13.8**	mg/Nm^3	---	IS 11255 (Part 6)
		19.8	ppm	50	
		0.031	kg/day	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Flue Gas Stack	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: Boiler	**Stack Diameter**	: 1900 mm
Date of Sampling	: 26.02.2021	**Analysis Date**	: 01.03.2021 — 04.03.2021
Sample Received	: 01.03.2021	**Date of Reporting**	: 05.03.2021
Sampling Location	: Coal Fire Boiler	**Sample Code**	: NIL/ST/02/21/185

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	**104**	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	**4.89**	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	**39391**	Nm^3/hr	---	IS 11255 (Part 3)
4	Particulate Matter	**33.7**	mg/Nm^3	50	IS 11255 (Part 1)
		31.859	kg/day	---	
5	Sulphur Dioxide	**572.5**	mg/Nm^3	---	IS 11255 (Part 2)
		218.5	ppm	---	
		541.2	kg/day	3200	
6	Oxides of Nitrogen	**162.0**	mg/Nm^3	---	IS 11255 (Part 7)
		132.0	ppm	350	
		153.2	kg/day	---	

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Flue Gas (Stack)	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: GT-2	**Stack Diameter**	: 1500 mm
Date of Sampling	: 10.03.2021	**Analysis Date**	: 12.03.2021 — 15.03.2021
Sample Received	: 12.03.2021	**Date of Reporting**	: 16.03.2021
Sampling Location	: HRSG 2	**Sample Code**	: NIL/ST/03/21/016

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	98	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	10.77	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	54838	Nm^3/hr	---	IS 11255 (Part 3)
4	Sulphur Dioxide	1.4	mg/Nm^3	---	IS 11255 (Part 2)
		0.5	ppm	---	
		1.843	kg/day	---	
5	Oxides of Nitrogen	13.6	mg/Nm^3	350	IS 11255 (Part 7)
		7.2	ppm	---	
		17.899	kg/day	---	
6	Carbon Monoxide	32.5	mg/Nm^3	---	USEPA – 10A
		28.4	ppm	---	
		42.774	kg/day	---	

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Flue Gas (Stack)	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: GT-5	**Stack Diameter**	: 1500 mm
Date of Sampling	: 10.03.2021	**Analysis Date**	: 12.03.2021 — 15.03.2021
Sample Received	: 12.03.2021	**Date of Reporting**	: 16.03.2021
Sampling Location	: HRSG 5	**Sample Code**	: NIL/ST/03/21/017

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	104	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	10.63	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	53264	Nm^3/hr	---	IS 11255 (Part 3)
4	Sulphur Dioxide	BDL	mg/Nm^3	---	IS 11255 (Part 2)
		BDL	ppm	---	
		BDL	kg/day	---	
5	Oxides of Nitrogen	225.0	mg/Nm^3	350	IS 11255 (Part 7)
		119.6	ppm	---	
		287.626	kg/day	---	
6	Carbon Monoxide	5.7	mg/Nm^3	---	USEPA – 10A
		5.0	ppm	---	
		7.287	kg/day	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Flue Gas (Stack)	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: Boiler	**Stack Diameter**	: 1830 mm
Date of Sampling	: 10.03.2021	**Analysis Date**	: 12.03.2021 — 15.03.2021
Sample Received	: 12.03.2021	**Date of Reporting**	: 16.03.2021
Sampling Location	: Boiler D	**Sample Code**	: NIL/ST/03/21/018

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	105	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	4.82	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	35880	Nm^3/hr	---	IS 11255 (Part 3)
4	Sulphur Dioxide	BDL	mg/Nm^3	---	IS 11255 (Part 2)
		BDL	ppm	---	
		BDL	kg/day	---	
5	Oxides of Nitrogen	6.8	mg/Nm^3	350	IS 11255 (Part 7)
		3.6	ppm	---	
		5.856	kg/day	---	
6	Carbon Monoxide	9.1	mg/Nm^3	---	USEPA – 10A
		7.9	ppm	---	
		7.836	kg/day	---	

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Verified by:
Surekha Jamdar
Dy. Technical Manager

Issued by:
Shraddha Kere
Technical Manager

End of Report

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

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.				
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra				
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019				
Sample Type	: Flue Gas (Stack)		**Sampling Done By**	: Netel (India) Limited	
Stack Connected to	: Boiler		**Stack Diameter**	: 1500 mm	
Date of Sampling	: 10.03.2021		**Analysis Date**	: 12.03.2021 — 15.03.2021	
Sample Received	: 12.03.2021		**Date of Reporting**	: 16.03.2021	
Sampling Location	: Boiler A		**Sample Code**	: NIL/ST/03/21/019	

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	109	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	6.25	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	30927	Nm^3/hr	---	IS 11255 (Part 3)
4	Sulphur Dioxide	BDL	mg/Nm^3	---	IS 11255 (Part 2)
		BDL	ppm	---	
		BDL	kg/day	---	
5	Oxides of Nitrogen	26.1	mg/Nm^3	350	IS 11255 (Part 7)
		13.9	ppm	---	
		19.373	kg/day	---	
6	Carbon Monoxide	6.6	mg/Nm^3	---	USEPA – 10A
		5.8	ppm	---	
		4.899	kg/day	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Process Gas (Stack)	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: ---	**Stack Diameter**	: 2772 mm
Date of Sampling	: 11.03.2021	**Analysis Date**	: 13.03.2021 — 16.03.2021
Sample Received	: 13.03.2021	**Date of Reporting**	: 17.03.2021
Sampling Location	: NPK Train - 2	**Sample Code**	: NIL/ST/03/21/023

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	**61**	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	**11.99**	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	**231499**	Nm^3/hr	---	IS 11255 (Part 3)
4	Particulate Matter	**20.2**	mg/Nm^3	150	IS 11255 (Part 1)
		112.231	kg/day	---	
5	Ammonia	**16.2**	mg/Nm^3	---	IS 11255 (Part 6)
		23.3	ppm	50	
		3.750	kg/hr	---	
6	Fluoride	**BDL**	mg/Nm^3	25	IS 11255 (Part 5)
		BDL	ppm	---	
		BDL	kg/day	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.				
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra				
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019				
Sample Type	: Process Gas (Stack)		**Sampling Done By**	: Netel (India) Limited	
Stack Connected to	: ---		**Stack Diameter**	: 2772 mm	
Date of Sampling	: 11.03.2021		**Analysis Date**	: 13.03.2021 — 16.03.2021	
Sample Received	: 13.03.2021		**Date of Reporting**	: 17.03.2021	
Sampling Location	: NPK Train - 1		**Sample Code**	: NIL/ST/03/21/022	

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	58	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	11.76	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	229116	Nm^3/hr	---	IS 11255 (Part 3)
4	Particulate Matter	16.8	mg/Nm^3	150	IS 11255 (Part 1)
		92.380	kg/day	---	
5	Ammonia	13.4	mg/Nm^3	---	IS 11255 (Part 6)
		19.3	ppm	50	
		3.070	kg/hr	---	
6	Fluoride	BDL	mg/Nm^3	25	IS 11255 (Part 5)
		BDL	ppm	---	
		BDL	kg/day	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Process Gas (Stack)	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: ---	**Stack Diameter**	: 1500 mm
Date of Sampling	: 11.03.2021	**Analysis Date**	: 13.03.2021 — 16.03.2021
Sample Received	: 13.03.2021	**Date of Reporting**	: 17.03.2021
Sampling Location	: ANP Deducting Unit Stack	**Sample Code**	: NIL/ST/03/21/020

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	58	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	10.86	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	61971	Nm^3/hr	---	IS 11255 (Part 3)
4	Particulate Matter	33.9	mg/Nm^3	150	IS 11255 (Part 1)
		50.420	kg/day	---	
5	Ammonia	24.7	mg/Nm^3	---	IS 11255 (Part 6)
		35.5	ppm	50	
		1.531	kg/hr	---	
6	Fluoride	6.40	mg/Nm^3	25	IS 11255 (Part 5)
		8.24	ppm	---	
		9.519	kg/day	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

TEST REPORT

Customer Name	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.		
Customer Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra		
Customer Reference	: Work Order no. 4800055893, Dated 24.07.2019		
Sample Type	: Process Gas (Stack)	**Sampling Done By**	: Netel (India) Limited
Stack Connected to	: ---	**Stack Diameter**	: 200 mm
Date of Sampling	: 11.03.2021	**Analysis Date**	: 13.03.2021 — 16.03.2021
Sample Received	: 13.03.2021	**Date of Reporting**	: 17.03.2021
Sampling Location	: ANP - Vaccum Pump	**Sample Code**	: NIL/ST/03/21/021

Sr. No.	Parameter	Result	Unit	Consent Limit	Method
1	Temperature	49	°C	---	IS 11255 (Part 3)
2	Velocity of Gas	6.42	m/sec	---	IS 11255 (Part 3)
3	Volumetric Flow Rate	669	Nm^3/hr	---	IS 11255 (Part 3)
4	Particulate Matter	12.7	mg/Nm^3	150	IS 11255 (Part 1)
		0.204	kg/day	---	
5	Ammonia	7.3	mg/Nm^3	---	IS 11255 (Part 6)
		10.5	ppm	50	
		0.005	kg/hr	---	
6	Fluoride	7.80	mg/Nm^3	25	IS 11255 (Part 5)
		10.04	ppm	---	
		0.125	kg/day	---	

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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Annexure 2: Ambient Noise Monitoring Reports

DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED

Deepak Fertilizers and Petrochemicals Corporation Ltd, Taloja
CSR Report 2020-21 Yearly (Up to March 2021)

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 in and around Taloja MIDC and urban area of Pune**.

Nearly 21371 families served in urban, rural and tribal areas through various initiatives by the end of financial year 2021.

Sr. No	Name of Project	Major Activity	No. of Families Benefited
1	Wadi & Health	Wadi, Veg., WRD	0419
3	Dairy Development	Livestock & Artificial Insemination	0283
4	Arogyam	Mobile Clinic, Cataract Surgery, Health Awareness Camp, Pathology Service, Masks, Donation Ambulance and PPE Kit, Support for Free medicine to the patients.	18670
	Community Development and Social Welfare	Drinking Water Scheme	250
5	Vocational Skill Development	Professional Beautician Practice & Art of Mehendi, Certificate Course in Information Technology with Typing & Spoken English, Tailoring; BSc. Optometry, PB BSc Nursing, BSc. Nursing, Plumbing, Para Medical Course-Diploma In Medical Laboratory Technician; direct placement	134
6	LEED	Entrepreneurship Development, Yellow Ribbon NGO Fair, Muskaan, Income Generation Program	1515
7	Gyanam	Scholl Infrastructure and human Resource	100
	Total		**21371**

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

- 1) Horticulture Plantation (Mango), 2) Promotion of Vegetables crops, 3) Promotion of Floriculture, 4) Health, 5) Farmers Capacity Building

Dairy Development

- 1) Cattle Induction 2) Door-step health services for cattle 3) Artificial Insemination 4) Fodder Development 5) Vaccination 6) Farmers Capacity Building

Vocational Training

- Diploma in opthomatry and Tailoring

LEED

- Entrepreneurship Development.

Health and Education

- 1) Mobile Clinic, 2) Health check-up camp, 3) Eye camp, 4) Kitchen Garden, 5) Donation of Ambulance and PPT kit to Health department of Govt. Of Maharashtra

Wadi Project

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


Mango Cultivation

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:

Total no. of Mangoes Planted	: 12,330
Survival Rate	: 78.20 %
Acres	: 206
Families covered	: 409 wadi + 10 WRD support = 419
Villages & hamlets covered	: 18
Total income from vegetable sales	: ₹ 102 Lakh
Number of farmers cultivating vegetables on their own	: 384
Nursery developed	: Mango - 06 (2,656 grafts) + Jasmine - 01 (2,347 saplings) + Vegetable Seedlings - 06 (10,858 nos.)
Demonstration of new plots	: 29 (Turmeric - 03; Capsicum - 01; Okra - 05; Cherry Tomato - 04; Rose plantation - 04; Jasmine - 05; Papaya - 03; Marigold - 04)
Aspirants meetings	: 85

Wadi Project

Success Stories

Name of Aspirant:
Mrs. Suman Goma Bhagat & Mr. Goma Shanivar Bhagat

Village: Wangani, **Taluka:** Panvel,
District: Raigad

Family Profile:
Mrs. Suman and Goma have two sons, Ramesh (28 yrs) and Mahesh (24 yrs) and both work on temporary basis at Taloja MIDC. Their son-in-law's five children are enrolled in the school. Goma is a marginal land holder and agriculture is the main source of income for the family.

Vegetable Farming

Crop	: Cucumber
Cultivated Area @R	: 15
Yield (kgs.)	: 1,980
Home Consumption Qty (kgs.)	: 60
Sold Qty (kgs.)	: 1,920
Average Rate (₹)	: 24.74
Total Income (₹)	: 47,500

Land: 2 acre

Success Stories

Name of Aspirant:
Mrs. Maee & Mr. Krishna Manglya Nirguda

Village: Bhalyachiwadi, **Taluka:** Panvel,
District: Raigad

Family Profile:
Maee and Krishna have two sons who are studying in 2nd and 1st standard. Agriculture is their main source of income. After wadi intervention, he took training of mango grafting and started nursery with the support of Ishanya Foundation. Now Krishna is preparing graft and selling in the local market. He learnt an additional skills which has become a new source of income.

Mango Graft Nursery

Grafts Prepared	: 875
Sold Qty (nos.)	: 700
Average Rate of Graft	: 23
Total Income (₹)	: 16,100

Land: 1 acre

Dairy Development Project (DDP)

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:

Total milk produced	: 4,35,010 lit
Milk consumed at home	: 94,525 lit
Milk consumed by calf	: 61,760 lit
Milk sold in the market	: 2,78,725 lit
Additional Income through sale of milk	: ₹ 1,04,31,150/-
Cow Dung Produced	: 95.61 MT
Artificial Insemination + Sorted Semen AI-06	: 763
Pregnancy Diagnosis (PD) (Jan-20 to Dec-20)	: 710 (Confirm Pregnancy Diagnosis - 234, Empty - 63; Repeat - 318 & Pending - 95 = 710) CP Rate - 45.80%
Calving	: 250 (Male - 147, Female - 103)

Fodder Development & Vermicompost

Fodder Development

Green fodder is a cost-efficient initiative for the farmer's livestock. However, its availability is in short supply. With the limited land under fodder cultivation there is a need to focus to improve productivity of fodder crops. To increase the profit of the dairy enterprise, IsFon supported for cultivation of Azolla, Maize and Napier grass.

Vermicompost

Vermicomposting is basically a managed process of worms digesting organic matter i.e. cowdung and agricultural waste to transform the material into a beneficial soil amendment. The worm castings are very important to the fertility of the soil. As a value addition to the dairy enterprise, IsFon took the initiative to develop Vermicompost beds in villages around Taloja.

Name of Aspirant:
Mrs. Taibai Kashinath Kambale & Mr. Kashinath Parshuram Kambale

Village: Vakdi, **Taluka:** Panvel,
District: Raigad

Family Profile:
Taibai and Kashinath have 2 daughters who are both married. Kashinath is a landless farmer. Before intervention, both Taibai and Kashinath worked as agriculture labourers in the village and faced difficulties to get regular work and Income. After support from IsFon, the family is getting regular income from their diary business.

Support Given	: 01 cross breed cow, Medicine Kit, Training, Exposure
Average Milk per Day	: 11
Rate of Milk	: ₹ 50/Lit
Income per Day	: 550 (₹ 16,500/month)

Land: Landless Farmer

Vocational Skills Development Project (VSDP)

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

TAILORING COURSE

30

SPONSORSHIP OF FEES BY ISFON FOR B.Sc OPTOMETRY AT LAXMI COLLEGE OF OPTOMETRY

4

Tailoring course being conducted by Ms. Anita Pawar from IsFon

Sr. No.	Description	Beneficiaries Covered
1.	Professional Beautician course & Art of Mehendi with Spoken English	20
2.	Certificate Course in Information Technology	31
3.	Post Basic B.Sc Nursing with Symbiosis College of Nursing	09
4.	B.Sc Nursing with St. Andrew's College of Nursing	01
5.	Diploma in Laboratory Technician Course with Suburban College of Nursing	01
6.	Basic Plumbing Course with Dnyanada Institute of Piping Flow Technology	21
7.	Soft Skills, Mock Interview and Typing facilitated by IsFon	17
	Total	**100**

Success Stories

Mr. Abhijit Shinde, BE (Mech) - Earning ₹ 32,575/- pm

Abhijit aged 23 years stays at Yerwada in Pune. His mother is associated with IsFon's IGP initiative and is the only earning member. After completing his Xth, Abhijit joined for a Diploma in Mech. Engg. course and passed with flying colours. He wanted to do his BE but could not afford it and had decided to give up further studying and take up a job to support his family which was equally important.

IsFon suggested to him to apply for BE and he got admission at Trinity College of Engineering on merit. IsFon sponsored his fees and now after completing BE (Mech) he is employed at Eaton India Innovation Centre with a salary of ₹ 32,575/- pm.

Ms. Gauri Potdar, CCIT - Earning ₹ 11,500/- pm

Gauri stays at Dhanori, Pune and completed the 'Certificate Course in Information Technology'(CCIT) with spoken English from IsFon. The CCIT course from IsFon helped Gauri to fetch a job at Teleperformance Pvt. Ltd. Pune, as a Call Operator.

Her father is a rickshaw driver and earns Rs 6,000 pm. Gauri, with her salary of ₹ 11,500/- pm is now able to support her family and is very proud of that fact.

Livelihood Enhancement through Entrepreneurship Development (LEED)

LEED provides entrepreneurship opportunities and facilitates livelihood through secondary income generation for financially challenged women.

Income Generation Project (IGP)

- Women who already have the basic stitching skills using a sewing machine are trained to make various gifting products.
- These products are designed by our in-house team and perfected after several samples are made by professional tailors.
- After a thorough quality control check the beneficiaries are trained to make them.
- This new enhanced skill set supplements their livelihood.

IGP HIGHLIGHTS:

Products made available at
BHARATRATH STORE
MAITRI SHOP
DAILY FRESH

Products at online platform:
creaticityonline.com

11,000 masks were stitched during the Covid Pandemic making the women financially independent which was also the need of the hour.

Products made under the IGP Project

Women associated with the IGP program undergoing skill enhancement training at Anubhuti Foundation

₹ 4,51,931
SALE OF PRODUCTS

₹ 1,96,156
INCOME GENERATION BY LADIES

Success Stories

Name of Aspirant:
Mrs. Devshree Virpal Ridhlan

Support of Course: Bachelor of Optometry

Sponsored Amount: ₹ 1,64,000/-

Devshree is living in a slum area of Vashi. Earlier her father and mother were working in society as security and housekeeping staff respectively. The family could not afford the fees of optometry for Devshree. She applied for sponsorship and after screening we supported her with 80% fees of college for three years. After her father's death all the responsibility fell on her elder brother and mother. After completion of the course she worked at Laxmi Eye Hospital and is now working with **Lenskart Pvt. Ltd.**, in Thane. She is earning **₹ 28,000 /-** per month.

Bachelor of Optometry

Support Given	: Bachelor of Optometry
Average Monthly Income	: ₹ 28,000/-
Annual Income	: ₹ 3,36,000/-
Impact	: Financially independent & able to support family

Devshree says "I am very thankful to the Ishanya Foundation for helping me. Now I am financially independent and also supporting my family."

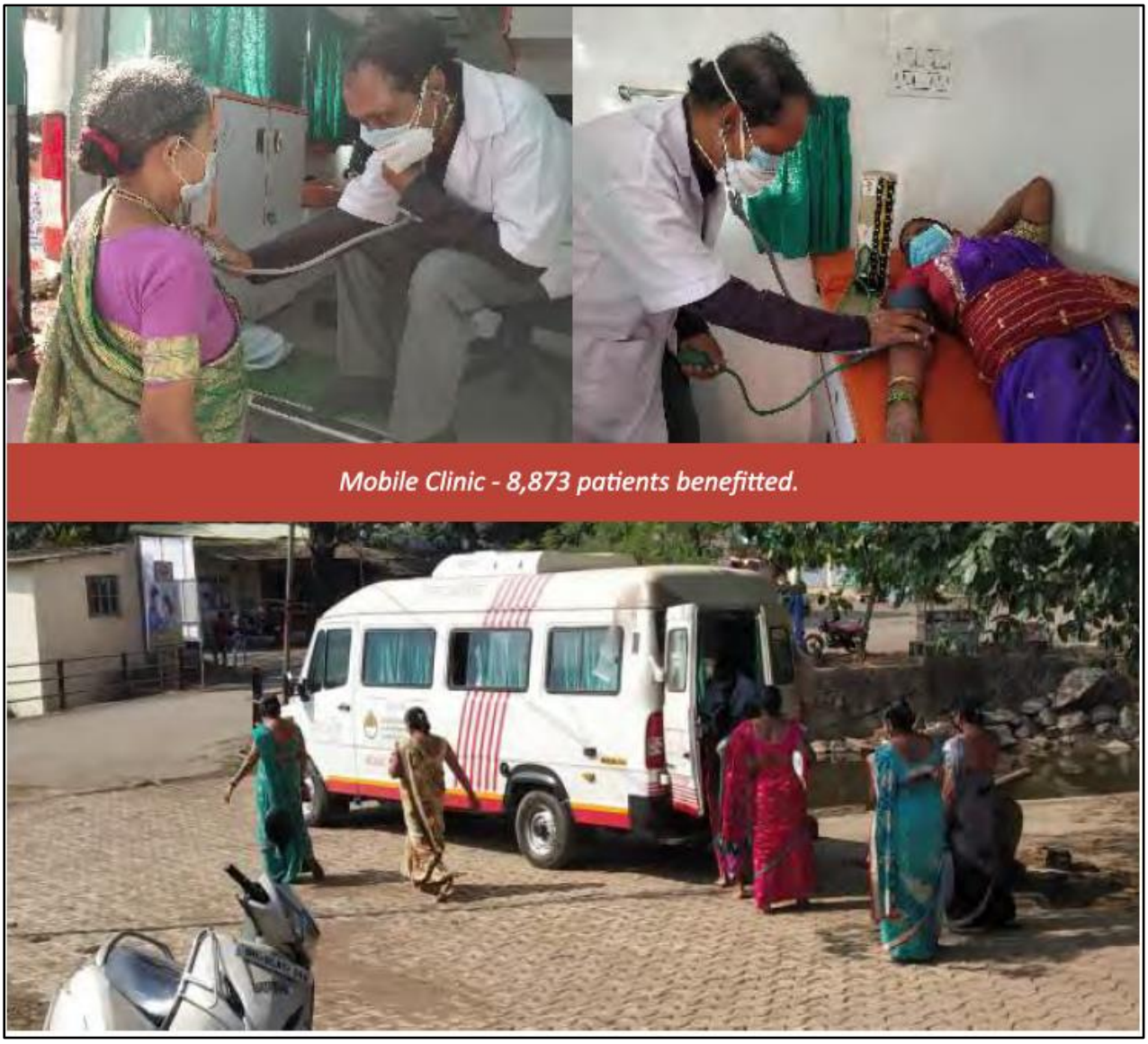
Aarogyam

DFPCL is consistently working for improvement of health by providing doorstep health services through health check-up camp. During outbreak of COVID-19 DFPCL has been donated 4 ambulance and 2500 nos. PPE kit to Health Department of Govt. of Maharashtra. Also provided 2100 lit hand sanitizer to the various government offices.

Health Awareness Program - 01 (68 women benefitted)

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.

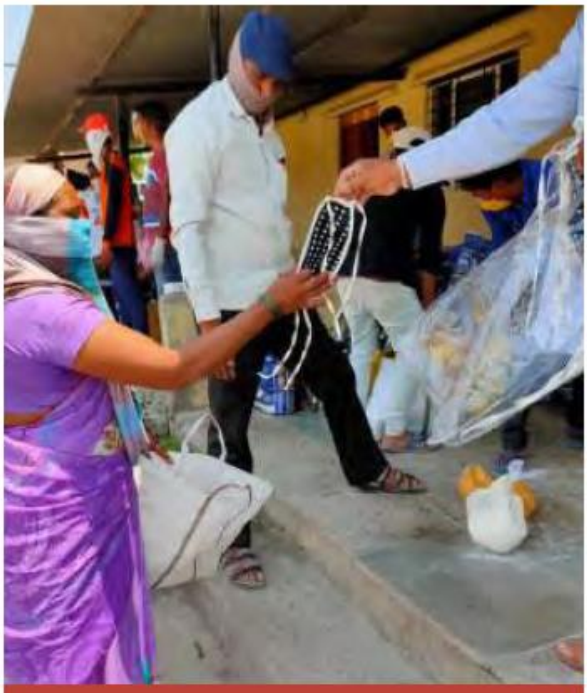


Mobile Clinic - 8,873 patients benefitted.

Activities Carried Out During Pandemic

Donation of four ambulances to Brihanmumbai Municipal Corporation during Pandemic

Donation of 2,500 PPE Kits to Haffkine Institute, Mumbai



Distribution of masks in marginalised community of Pune & Taloja - 2,535 beneficiaries

Community Development & Social Welfare (CDSW)

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

To resolve the problem of scarcity of portable water at Kanpoli village (Taloja), IsFon has installed water lifting / conveyance equipments and built elevated storage tank of 25,000 litres capacity with 4 water distribution points, benefitting 250 families.

Drinking water facility being provided by IsFon at Kanpoli, Taloja

Press Clippings

LOKSATTA

दीपक फर्टिलायजर्सची पालिकेला रुग्णवाहिका, पीपीई संचांची मदत

मुंबई : औद्योगिक रसायने आणि खतनिर्मिती कंपनी दीपक फर्टिलायझर्स अँड पेट्रोकेमिकल्स कॉर्पोरेशन लिमिटेड (डीएफपीसीएल) आणि तिची सीएसआर शाखा ईशान्य फाऊंडेशनने करोनाविरोधातील लढ्याला मदतीचा ओघ कायम ठेवला आहे. आरोग्य क्षेत्रातील कर्मचाऱ्यांसाठी कंपनीने राज्य सरकारला २,५०० पीपीई संच दिले, तर बृहन्मुंबई महापालिकेला चार रुग्णवाहिका दिल्या आहेत. याशिवाय मुख्यमंत्री कार्यालय आणि इतर सरकारी संस्थांना एक हजार लिटरहून अधिक हँड सॅनिटायझर्सचे वाटप केले आहे. कंपनीच्या कर्मचाऱ्यांनी स्वत:हून पुढे येऊन ३८.७० लाख रुपयांची मदत मुख्यमंत्री निधीला केली आहे. ईशान्य फाऊंडेशनच्या मोबाइल क्लिनिकने टाळेबंदी काळात विविध आजाराच्या एकूण ९,०५८ रुग्णांवर उपचार केले. ज्यात रायगड जिल्ह्यातील तळोजा परिसरातील ४० गावांतील ३,०७३ रुग्णांचा समावेश आहे.

NAVBHARAT

महाराष्ट्र सरकार को दी चिकित्सा सहायता

INDIAN EXPRESS

YRNF's 13th edition takes place online this year

RAMPRAHAR

ईशान्य फाऊंडेशनच्या वतीने तळोजामध्ये मोबाइल वैद्यकीय सेवा

VADALWARA

तळोजामध्ये मोबाईल वैद्यकीय सेवा

NAV RASTRA

नवराष्ट्र

'ईशान्य फाऊंडेशन'ची कोरोना लढ्यात मदत

Times of India

Festive exhibitions go online to avoid mass gatherings

NAVBHARAT

कोरोना योद्धाओं का सहयोग

स्वास्थ्य कर्मियों को बांटे 2500 पीपीई किट्स

PUNYANAGARI

दीपक फर्टिलायझर्सकडून २५०० पीपीई, ४ ॲम्ब्युलन्स

। नवी दिल्ली । दीपक फर्टिलायझर्स आणि पेट्रोकेमिकल्स कॉर्पोरेशन कंपनीने सोमवारी दिलेल्या माहितीनुसार, महाराष्ट्रातील आरोग्य कर्मचाऱ्यांसाठी २५०० वैयक्तिक सुरक्षा उपकरण किट (पीपीई) देणगीदाखल दिले आहेत. कंपनीने सोशल कॉर्पोरेट रिस्पॉन्सिबिलीटी (सीएसआर) अंतर्गत ऑपरेटिंग एजन्सी ईशान्य फाऊंडेशनच्या माध्यमातून मुंबई महानगरपालिकेला ४ ॲम्ब्युलन्स आणि १००० लिटरपेक्षा अधिक इस्सोप्रोपिल अल्कोहोल (आयपीए) आधारित हँडसॅनिटायझर महाराष्ट्राचे मुख्यमंत्री कार्यालय आणि अन्य सरकारी संस्थांसाठी दिले आहे. एका नियामकीय सूचनेनुसार दीपक फर्टिलायझरने म्हटले आहे की, कंपनीच्या कर्मचाऱ्यांनी देखील स्वेच्छेने महाराष्ट्राच्या मुख्यमंत्री सहाय्यता निधीसाठी ३८.७० लाख रुपये योगदान दिले आहे. याशिवाय कंपनीने महाराष्ट्रातील पुणे गौरेसन आणि आसपासच्या परिसरात हँडसॅनिटायझर्स निर्मितीसाठी सेनेला आवश्यक कच्चा माल देखील पुरवला आहे. दीपक फर्टिलायझरचे अध्यक्ष आणि व्यवस्थापकीय संचालक शैलेश वेद, मेहता यांनी ही माहिती दिली.

HINDUSTAN TIMES

13TH YELLOW RIBBON NGO FAIR GOES ONLINE

HT Correspondent
puneletters@htlive.com

PUNE: The Yellow Ribbon NGO Fair (YRNF) has kickstarted its 13th edition online amid the Covid-19 crisis. The fair's theme this year is 'Swadeshi with Pride'. The fair started on November 1 and will continue until Sunday. Along with people from the city, the online fair also gives a chance of shopping to residents of Mumbai. The fair provides a platform to many non-government organisations and self-help groups that will showcase and sell their products, thereby helping income generation activities and also creating awareness about the work done by them. Over the last several years, thousands of people have shopped at the YRNF at Creativity mall (formerly Ishanya mall) and this time people just have to visit creaticityonline.com to get their favourite products.