

STL-K1/EHS/Env/2022-23/05

Date: 30-MAY-22

**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, amendment on 16.11.2021.

**Sub: Half yearly Environmental Clearance Compliance report.**

Dear Sir,

Please find enclosed the half yeraly EC compliance report of **NPK Fertilizer Manufacturing Unit** for the period of **October-2021 to March -2022**.

We also would like to communicate that our conslolidated consent to operate for Deepak Fertilisers and Petrochemicals Corporations Limited, plot No. K-1 to K-8 now got demerged into 3 separate consent to operates based on the NCLT order into –

- Deepak Fertilisers and Petrochemicals Corporations Limited, plot No. K-1 to K-6.
- Smartchem Technologies Limited, plot No. K-1, K-1 part-1, K-1 part-2.
- Smartchem Technologies Limited, plot No. K-7 to K-8

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, 1<sup>st</sup> Floor, New Administrative Building, Mantralaya, Mumbai – 400032.
3. CPCB Parivesh Bhawan, Opp. VMC Ward Office No. 10, Shubhanpura, Vadodara, Gujarat 390023.

| DATA SHEET |  |
|------------|--|
| 1          | Project type: River - valley/ Mining / Thermal/ Industry / Nuclear/ Other (specify)  |
| 2          | Name of the project  |
| 3          | Clearance letter ( s ) /OM No. and Date  |
| 4          | Location   |
|            | a. District ( S )  |
|            | b. State ( S )   |
|            | c. Latitude/longitude  |
| 5          | Address for correspondence   |
|            | a. Address of Concerned Project Chief Engineer ( with pin code & Telephone/ telex/ fax numbers   |
|            | b. Address of Executive Project: Engineer/Manager ( with pincode/ Fax numbers)   |
| 6          | Salient features   |
|            | a. of the project  |
|            | b. of the environmental management plans   |
| 7          | Break up of the project area   |
|            | a. submergence area forest & non forest  |
|            | b. Others  |
| 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     |
|            | a. SC, ST/Adivasis   |
|            | 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) |
| 9          | Financial details.   |
|            | a. Project cost as originally planned and subsequent revised estimates and the year of price reference   |
|            | b. Allocation made for environmental management plans with item wise and year wise Break-up.   |
|            | 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.  |
|            | e. Actual expenditure incurred on the project so far.  |
|            | f. Actual expenditure incurred on the environmental management plans so far  |
| 10         | Forest land requirement  |
|            | a. The status of approval for diversion of forest land for non-forestry use  |
|            | b. The status of compensatory afforestation program in the light of actual field experience so far   |
| 11         | The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information  |
| 12         | Status of construction   |
|            | a. Date of commencement (Actual and/or planned)  |
|            | b. Date of completion (Actual and/of planned )   |
| 13         | Reasons for the delay if the Project is yet to start   |
| 14         | Dates of site visits   |
|            | a. The dates on which the project was monitored by the Regional Office on previous Occasions, if any   |
|            | b. Date of site visit for this monitoring report   |
| 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    |

|   |
|---|
|   |
| Industry  |
| Expansion of Fertilizer plant of Deepak Fertilisers and Petrochemicals Corporation Limited at Plot K1-K5 , MIDC Industrial area , Talaja , District Raigad, Maharashtra - Transfer of Environment Clearance regarding, EC transferred to M/s Smartchem Technologies Limited on 18.12.2020   |
| 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, amendment on 16.11.2021.   |
| Raigad  |
| Maharashtra   |
| 19°03'57.6"N/73°07'58.8"E   |
| Mr. Deepak Pande (Sr.GM-EHS),<br>M/s Smartchem Technologies Limited.<br>Plot No. K-1, MIDC Industrial area, Talaja, District Raigad – 410208, Maharashtra.<br>Phone:- 022-50684221, 9920942161  |
| Same as above   |
|   |
| Annexure-A (Sailent Feature of Project)   |
| Annexure-B (EMP of Project)   |
|   |
| NA, (MIDC Land)   |
| NA  |
| NA, (MIDC Land)   |
|   |
| NA, (MIDC Land)   |
| NA  |
|   |
| 190 Crores  |
| <b>Yes. Year 2021-22.</b>   |
| 1. Rs. 39 lakhs for Plantation and Maintenance of Tree plantation<br>2. Rs. 60 lakhs for Green Belt development<br>3. Rs. 20 lakhs for plantation nearby village<br>4. .Rs. 62 lakhs for IIT study for NPK EC study<br>5. Rs. 16 lakhs for ETP1 improvements<br>6. Rs. 8 lakhs for AMC for CEMS<br>7. Rs. 0.5 lakhs for AMC for AAQMS<br>8. Rs. 0.7 lakhs AMC for PM Analyzer<br>9. Rs. 01 lakhs for OCEMS Glens portal development |
| -   |
| Yes   |
| Rs. 190 Cr.   |
| For environment 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.  |
| NA, (MIDC Land)   |
| NA, (MIDC Land)   |
| NA, (MIDC Land)   |
| NA, (MIDC Land)   |
|   |
| Project work got delayed and expected to compete by 1st quarter of 2023.  |
| 2 LMPTA expansion is expected to start by 1st quarter of 2023.  |
|   |
| NA  |
| -   |
| NA  |
|   |
| NA  |
| 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 21<sup>st</sup> 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 as 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 is 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 fall under 5(a), *Chemical Fertilizers*, 'Project or Activities' listed within the Category to the EIA Notification dated September 14<sup>th</sup>, 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 <sup>2</sup> .<br>Product and their capacities are shown in <b>Table 2-3</b> .              |
| 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 <sup>2</sup> | Maximum rainfall intensity per annum<br>In m/annum | Maximum rainfall intensity per annum<br>In m/day | Runoff coefficient | Total rainwater<br>In m <sup>3</sup> /annum | Maximum rainwater<br>In m <sup>3</sup> /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                                    |
| <b>Total</b> |                        |  |  |                    | <b>35,297.38</b>                            | <b>9,295.36</b>                             |

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<sup>3</sup> 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<sup>3</sup> rainwater will be available annually from Green and road area and for one day maximum value will be 8,920.23 m<sup>3</sup>. 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 Talaja, 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**

| <b>Social Component</b>    | <b>Issues Discussed / Raised</b>  | <b>Mitigation / Enhancement Measures</b>  |
|----------------------------|---|---|
| Health and Hygiene         | <ul style="list-style-type: none"> <li>• Presence of Odour smell and gas emissions from the existing industrial units of Taloja MIDC, area.</li> <li>• The medicines supplied through state the government in the Vavenja Village PHC is inadequate.</li> <li>• Medical/Health check-up camps to be arranged at regular interval in all the surrounding villages by DFPCL.</li> </ul>   | <ul style="list-style-type: none"> <li>• Regular Monitoring will be carried out by the Compliance Agency with strict follow up of CPCB Guidelines and other regulatory agencies/NGO.</li> <li>• The DFPCL will take initiative to improvise the generic medicine distribution under CSR Scheme in consultation with the Medical Officer.</li> <li>• DFPCL's HR /CSR Department will organise the medical camps at regular interval for the surrounding habitation.</li> </ul> |
| Safe Drinking Water        | <ul style="list-style-type: none"> <li>• Provision of RO water for School children.</li> <li>• Tap connection for all the Anganwadi and Primary Schools in the village falling in the close proximity of the industrial area.</li> </ul>  | <ul style="list-style-type: none"> <li>• 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.</li> </ul>   |
| Education                  | <ul style="list-style-type: none"> <li>• Installation of Children play equipments at open space of RZP primary school ground of Pale Khurd village.</li> <li>• Distribution of about 1200 Nos. of school uniforms for Anganwadi and primary schools children of Pale Khurd, Padghe, Pender, Valap and Devichapada village.</li> <li>• Supply of overhead projectors for teaching students in the RZP primary schools of Devichhapada, Pale Khurd, Kanpoli, Valap, Pendhar, Padghe, Vavanje etc.</li> <li>• Distribution of furniture like tables, plastic chairs, Ceiling fans, Rack for shoes, sound system etc.</li> <li>• Supply of water filter for Anganwadi and other educational institutions.</li> <li>• Supply of sports equipment in different Schools/Colleges of the nearby areas.</li> </ul> | <ul style="list-style-type: none"> <li>• DFPCL will consider the requirement under CSR Scheme after conducting need based assessment.</li> </ul>  |
| Infrastructure Development | <ul style="list-style-type: none"> <li>• Renovation of School Building at RZP at Devichhapada and Pale Khurd Village.</li> <li>• Provision of water tank with piped water facility for toilets at the RZP primary schools located at Padghe, Devichhapda village.</li> <li>• Construction of 2 Nos. classroom and flooring of the existing classroom at RZP Primary School, Pale Khurd.</li> </ul>  | <ul style="list-style-type: none"> <li>• The DFPCL will adopt the primary schools of the villages falling in the close proximity of the proposed site for regular renovation &amp; maintenance of School Building, toilets under company's CSR Scheme.</li> <li>• The DFPCL will undertake the work under CSR Scheme in phase wise manner seeing the priority and availability of fund.</li> </ul>  |

| Social Component | Issues Discussed / Raised  | Mitigation / Enhancement Measures |
|------------------|--|-----------------------------------|
|                  | <ul style="list-style-type: none"> <li>Up gradation of the internal village road in consultation with the MNP/Panchayat at Devichapda, Pale Khurd, Vavenje village in phasewise manner.</li> </ul> |                                   |

### 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 Talaja 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           |
|   | <b>Total Amount per Year</b> | <b>77.75</b>                               | <b>85.53</b> | <b>94.08</b> | <b>103.49</b> | <b>113.83</b> | <b>475</b>   |
| <b>Total provision for 5 years - Rupees Four Hundred Seventy Five Lakhs (INR 4.75 Crores)</b> |                              |  |              |              |               |               |              |

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 transed to M/s. Smartchem Technologies Limited on 18.12.2020, amendment on 16.11.2021 by MoEF, IA Div., Indra Paryavaran Bhavn, Jor baug road, Delhi - 110 003. |   |  |
|---|---|--|
| SN  | Specific Conditions   | Status of compliance as on 31/03/2022  |
| a   | Necessary permission as mandated under WPCPA-1974 & APCPA-1981, as applicable from time to time, shall be obtained from the SPCB.   | CTO for 9.25 LMPTA multiple grade fertilizer is available. For expanded capacity of 2 LMPTA multiple grade fertilizer CTE application is with CAC of MPCB for approval. After CTE approval, CTO will be obtained before going for commercial production.   |
| 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.  | CTO for 9.25 LMPTA multiple grade fertilizer is available. For expanded capacity of 2 LMPTA multiple grade fertilizer CTE application is with CAC of MPCB for approval. After CTE approval, CTO will be obtained before going for commercial production.   |
| 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  | Existing stack will be used for expanded capacity as they are designed stacks considering expanded capacity. The stacks height is as per CPCB / MPCB guidelines, which is equipped with APCD and the stacks are also connected to CPCB / MPCB. For fugitive emission monitoring in addition to third party MOEF approved lab analysis also provided continuous online AAQMS. |
| d   | The green belt (GB) shall be developed in 31% i.e. 94122 m2 of the total project area along the plant periphery and also as committed by the project proponent, green belt shall be developed in additionally 2.6 acres' area (i.e. 10,600 m2) adjacent to the plots allotted by the MIDC for green belt development."          | Complied.  |
| 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 third party lab sampling is also done. (Annexure-1)  |
| f   | 10 meter wide green belt of perennial trees around periphery of the plant shall be developed.   | Complied.  |
| g   | Fresh water requirement shall not exceed 17000 m3 / day from MIDC water supply and prior permission shall be obtained from the concerned authority  | Complied   |
| h   | Only 1500 m3/day WW shall be sent to CETP   | Noted, we are conducting IIT study for evolving option to reduce waste water, based on the study decision will be taken before going for expansion of additional 2 LMPTA of NPK production.  |
| i   | Closed cooling system shall be provided to the CT   | Noted, Our cooling towers are Cross-Flow Cooling Tower in a closed-loop cooling network  |
| j   | As proposed adequate scrubber shall be provided to all reactors. Scrubber efficiency shall be > 99.9%   | Complied. OCEM of NPK have provided in built scrubber before process stacks for 6 LMPTA NPK plant and same will be used 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.  | Noted. Forest land of 15 acre for 1000 trees / year for years is allocated to us for this activity. For year 2021, plantation of 1000 trees completed at Mahalungi village and survival rate is above 95%.   |
| l   | The Committee deliberated the submission of the project proponent after detailed deliberations, recommended to utilize 0.75 % CER as stipulated in the EC dated 02.09.2019 and other 4.25% of the project in EMP related activities mentioned in EIA/EMP report and various commitments/activities made in public consultation. | Complied. As per the amendmended condition for expediture heads by EAC. Based on that projected cost associated with EMP, OCEMS and CSR activities.  |
| 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.   | Complied. Qualified environment professionals are employed for environment management activities.  |
| n   | Scrubber to be provided to all emission sources.  | Complied.  |
| 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.  | Complied. 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.   | Complied. 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.  | Complied. 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.  | Complied. No hazardous by-product is produced in NPK process.  |

|      | Generic Conditions   | Status of compliance as on 31/03/2022  |
|------|--|--|
| i    | The PP must strictly adhere to the stipulation made by the SPCB, state 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 reference 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.  | Complied. 3 continuous online AAQMS stations are installed as per AAQMS standard (180 deg interval). Online data from the same transmitted to MPCB portals. For the parameters which are not captured in the AAQMS system are tested monthly by third party lab. <b>(Annexure-2)</b> |
| iv   | The NAAQES issued by the Ministry vide GSR No. 826 (E), dated 16.11.2009 shall be complied with.   | Complied. 3 CAAQMS station continuously monitor 7 parameters which are uploaded on the MPCB portals. Monthly monitoring through third party MOEFCC approved lab for all the parameters including the one which are not captured in the AAQMS system. <b>(Annexure-2)</b>             |
| 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 conform to the standards prescribed under EPA-1986, EPR-1989 viz. 75 dBA (day time) and 70 dBA (night time).   | Complied. OCEM'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 <b>(Annexure-3)</b>   |
| 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.  | Complied. System for rain water harvesting is provided at existing WNA-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.   | Complied. 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.  | Complied. Earlier EC's related public hearing points complied. For this 2 LMPTA NPK expansion related points will be complied before going for commercial production.  |
| 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.   | Complied. As a part of CSR various initiatives are taken involving villagers and other stake holders to meet socio-economic objectives. <b>(Annexure-4)</b>  |
| x    | A separate environment management cell equipped with full-fledged laboratory facilities shall be set up to carryout the environmental management and monitoring function.  | Complied. A separate environment management cell equipped with two labs QC & ETP available   |
| 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.  | Complied. 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.   | Complied. 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.   | Complied. 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 <a href="http://moef.nic.in">http://moef.nic.in</a> . 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. | Complied. Same is released in local news papers.   |

| List of Annexures Submitted |                                  |
|-----------------------------|----------------------------------|
| Annexure. No.               | Content                          |
| 1                           | Stack Monitoring Reports         |
| 2                           | Ambient Air Monitoring Reports   |
| 3                           | Ambient Noise Monitoring Reports |
| 4                           | CSR Report                       |

## **Annexure 1: Stack Monitoring Reports**



# GADARK LAB PVT. LTD.

## INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Certificate No.      | GA/21/10/284   | T. C. Date         | 26/10/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 20/10/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 21/10/2021 To 22/10/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |                               |
|---|-------------------------------|
| Stack No.   | CES – A Engine Exhaust Boiler |
| Stack Attached to   | CES – A Engine Exhaust Boiler |
| Stack Dimension [mm]  | 1500                          |
| Fuel Used   | Natural Gas                   |
| Date of Sample collection                                   | 19/10/2021                    |
| Time of Sampling [Hrs]                                      | 13:30                         |
| Temperature of flue gas [°C]                                | 55                            |
| Average flue gas velocity [m/s]                             | 5.3                           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 30782                         |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| Sulphur Dioxide | mg/Nm <sup>3</sup> | Nil     | ---             | IS 11255 (Part II) 1985     |
|                 | ppm v/v            | Nil     |                 |                             |
|                 | Kg/day             | Nil     |                 |                             |
| NO <sub>x</sub> | mg/Nm <sup>3</sup> | 33.9    | ---             | IS 11255 (Part VII) 2005    |
|                 | ppm                | 18.1    |                 |                             |
|                 | Kg/day             | 25.07   |                 |                             |
| CO              | mg/Nm <sup>3</sup> | 40.1    | ---             | APHA Edition II-134         |
|                 | ppm                | 35.0    |                 |                             |
|                 | Kg/day             | 29.62   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

**Note :**

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3. Samples will be preserved for a period 15 days from the delivery of Test Certificate.
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5. Customer complaint register is available at laboratory.





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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Certificate No.      | GA/21/10/285   | T. C. Date         | 26/10/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 20/10/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 21/10/2021 To 22/10/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |                               |
|---|-------------------------------|
| Stack No.   | CES – B Engine Exhaust Boiler |
| Stack Attached to   | CES – B Engine Exhaust Boiler |
| Stack Dimension [mm]  | 1500                          |
| Fuel Used   | Natural Gas                   |
| Date of Sample collection                                   | 19/10/2021                    |
| Time of Sampling [Hrs]                                      | 14:15                         |
| Temperature of flue gas [°C]                                | 48                            |
| Average flue gas velocity [m/s]                             | 4.7                           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 27909                         |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| Sulphur Dioxide | mg/Nm <sup>3</sup> | 26.0    | ---             | IS 11255 (Part II) 1985     |
|                 | ppm v/v            | 9.9     |                 |                             |
|                 | Kg/day             | 6.63    |                 |                             |
| NO <sub>x</sub> | mg/Nm <sup>3</sup> | 280.4   | ---             | IS 11255 (Part VII) 2005    |
|                 | ppm                | 149.1   |                 |                             |
|                 | Kg/day             | 187.79  |                 |                             |
| CO              | mg/Nm <sup>3</sup> | 43.5    | ---             | APHA Edition II-134         |
|                 | ppm                | 38.0    |                 |                             |
|                 | Kg/day             | 29.16   |                 |                             |

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Certificate No.      | GA/21/10/286   | T. C. Date         | 26/10/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 20/10/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 21/10/2021 To 22/10/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |                          |
|---|--------------------------|
| Stack No.   | S-14                     |
| Stack Attached to   | Ammonia Primary Reformer |
| Stack Dimension [mm]  | 1373                     |
| Fuel Used   | Natural Gas              |
| Date of Sample collection                                   | 19/10/2021               |
| Time of Sampling [Hrs]                                      | 15:00                    |
| Temperature of flue gas [°C]                                | 140                      |
| Average flue gas velocity [m/s]                             | 10.4                     |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 40003                    |

### ANALYSIS REPORT :

| Parameters      | Unit    | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|---------|---------|-----------------|-----------------------------|
| Sulphur Dioxide | mg/Nm³  | 37.7    | ---             | IS 11255 (Part II) 1985     |
|                 | ppm v/v | 14.4    |                 |                             |
|                 | Kg/day  | 36.20   |                 |                             |
| NO₂             | mg/Nm³  | 43.0    | 400.0           | IS 11255 (Part VII) 2005    |
|                 | ppm     | 22.9    |                 |                             |
|                 | Kg/day  | 41.32   |                 |                             |
| CO              | mg/Nm³  | 97.0    | ---             | APHA Edition II-134         |
|                 | ppm     | 84.7    |                 |                             |
|                 | Kg/day  | 93.16   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Certificate No.      | GA/21/10/287   | T. C. Date         | 26/10/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 20/10/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 21/10/2021 To 22/10/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |               |
|---|---------------|
| Stack No.   | S-11          |
| Stack Attached to   | WNA - I Plant |
| Stack Dimension [mm]  | 953           |
| Fuel Used   | Process Stack |
| Date of Sample collection                                   | 21/10/2021    |
| Time of Sampling [Hrs]                                      | 12:40         |
| Temperature of flue gas [°C]                                | 98            |
| Average flue gas velocity [m/s]                             | 19.9          |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 41103         |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| NO <sub>2</sub> | mg/Nm <sup>3</sup> | 235.7   | 400.0           | IS 11255 (Part VII) 2005    |
|                 | ppm                | 125.4   |                 |                             |
|                 | Kg/day             | 233.40  |                 |                             |
| Ammonia         | mg/Nm <sup>3</sup> | 30.4    | Not Specified   | IS 11255 (Part VI) 1999     |
|                 | ppm v/v            | 43.7    |                 |                             |
|                 | Kg/day             | 29.95   |                 |                             |

End

For GADARK LAB PVT. LTD.

  
AUTHORISED SIGNATORY  
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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Certificate No.      | GA/21/10/288   | T. C. Date         | 26/10/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 20/10/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 21/10/2021 To 22/10/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |                |
|---|----------------|
| Stack No.   | S-12           |
| Stack Attached to   | WNA – II Plant |
| Stack Dimension [mm]  | 953            |
| Fuel Used   | Process Stack  |
| Date of Sample collection                                   | 21/10/2021     |
| Time of Sampling [Hrs]                                      | 13:20          |
| Temperature of flue gas [°C]                                | 105            |
| Average flue gas velocity [m/s]                             | 20.4           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 41253          |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| NO <sub>2</sub> | mg/Nm <sup>3</sup> | 312.5   | 400.0           | IS 11255 (Part VII) 2005    |
|                 | ppm                | 166.3   |                 |                             |
|                 | Kg/day             | 310.57  |                 |                             |
| Ammonia         | mg/Nm <sup>3</sup> | 24.3    | Not Specified   | IS 11255 (Part VI) 1999     |
|                 | ppm v/v            | 34.9    |                 |                             |
|                 | Kg/day             | 24.04   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Certificate No.      | GA/21/10/289   | T. C. Date         | 26/10/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 20/10/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 21/10/2021 To 22/10/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |                |
|---|----------------|
| Stack No.   | S-13           |
| Stack Attached to   | WNA – IV Plant |
| Stack Dimension [mm]  | 953            |
| Fuel Used   | Process Stack  |
| Date of Sample collection                                   | 21/10/2021     |
| Time of Sampling [Hrs]                                      | 14:00          |
| Temperature of flue gas [°C]                                | 90             |
| Average flue gas velocity [m/s]                             | 19.2           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 40533          |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| NO <sub>2</sub> | mg/Nm <sup>3</sup> | 225.0   | 400.0           | IS 11255 (Part VII) 2005    |
|                 | ppm                | 119.7   |                 |                             |
|                 | Kg/day             | 219.70  |                 |                             |
| Ammonia         | mg/Nm <sup>3</sup> | 26.0    | Not Specified   | IS 11255 (Part VI) 1999     |
|                 | ppm v/v            | 37.4    |                 |                             |
|                 | Kg/day             | 25.31   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
[KAILAS V. CHITALKAR]

**CHECKED BY**

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# GADARK LAB PVT. LTD.

## INDUSTRIAL ANALYSTS & CONSULTANTS

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |            |
|---------------------------|--|--------------------|------------|
| Test Certificate No.      | GA/21/11/307   | T. C. Date         | 30/11/2021 |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |            |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1     |
| Sampling Done By          | GLPL   | Sample Received on | 27/11/2021 |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 29/11/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |                   |
|---|-------------------|
| Stack No.   | S-4               |
| Stack Attached to   | AN PRILLING TOWER |
| Stack Dimension [mm]  | 1632              |
| Fuel Used   | Process Stack     |
| Date of Sample collection                                   | 26/11/2021        |
| Time of Sampling [Hrs]                                      | 13:30             |
| Temperature of flue gas [°C]                                | 45                |
| Average flue gas velocity [m/s]                             | 23.0              |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 162507            |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 16.1    | 150.0           | IS 11255 (Part I) 1985      |
|            | Kg/day             | 62.79   |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | 5.22    | 300.0           | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | 7.5     |                 |                             |
|            | Kg/day             | 20.35   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Certificate No.      | GA/21/11/308   | T. C. Date         | 30/11/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 27/11/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 29/11/2021 To 30/11/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |                    |
|---|--------------------|
| Stack No.   | S-3                |
| Stack Attached to   | ANP Prilling Tower |
| Stack Dimension [mm]  | 1655               |
| Fuel Used   | Process Stack      |
| Date of Sample collection                                   | 26/11/2021         |
| Time of Sampling [Hrs]                                      | 12:00              |
| Temperature of flue gas [°C]                                | 35                 |
| Average flue gas velocity [m/s]                             | 22.6               |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 169363             |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 9.3     | 150.0           | IS 11255 (Part I) 1985      |
|            | Kg/day             | 37.80   |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | 8.70    | 300.0           | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | 12.5    |                 |                             |
|            | Kg/day             | 35.35   |                 |                             |
| Fluoride   | mg/Nm <sup>3</sup> | Nil     | 10.0            | IS 11255 (Part V) 2003      |
|            | ppm                | Nil     |                 |                             |
|            | Kg/day             | Nil     |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/21/11/169   | Test Report Date   | 23/11/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 17/11/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 18/11/2021 To 20/11/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |               |
|---|---------------|
| Stack No.   | S-1           |
| Stack Attached to   | NPK Train – 1 |
| Stack Dimension [mm]  | 2772          |
| Fuel Used   | Process Stack |
| Date of Sample collection                                   | 15/11/2021    |
| Time of Sampling [Hrs]                                      | 12:00         |
| Temperature of flue gas [°C]                                | 49            |
| Average flue gas velocity [m/s]                             | 10.6          |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 212154        |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 7.9     | 150.0           | IS 11255 (Part I) 1985      |
|            | Kg/day             | 40.22   |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | 4.9     | 300.0           | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | 7.0     |                 |                             |
|            | Kg/day             | 24.71   |                 |                             |
| Fluoride   | mg/Nm <sup>3</sup> | Nil     | 10.0            | IS 11255 (Part V) 2003      |
|            | ppm                | Nil     |                 |                             |
|            | Kg/day             | Nil     |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/21/11/170   | Test Report Date   | 23/11/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 17/11/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 18/11/2021 To 20/11/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |               |
|---|---------------|
| Stack No.   | S-2           |
| Stack Attached to   | NPK Train – 2 |
| Stack Dimension [mm]  | 2772          |
| Fuel Used   | Process Stack |
| Date of Sample collection                                   | 15/11/2021    |
| Time of Sampling [Hrs]                                      | 13:30         |
| Temperature of flue gas [°C]                                | 44            |
| Average flue gas velocity [m/s]                             | 10.3          |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 210138        |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 8.3     | 150.0           | IS 11255 (Part I) 1985      |
|            | Kg/day             | 41.86   |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | 5.7     | 300.0           | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | 8.1     |                 |                             |
|            | Kg/day             | 28.55   |                 |                             |
| Fluoride   | mg/Nm <sup>3</sup> | Nil     | 10.0            | IS 11255 (Part V) 2003      |
|            | ppm                | Nil     |                 |                             |
|            | Kg/day             | Nil     |                 |                             |

End

For GADARK LAB PVT. LTD.

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/21/11/171   | Test Report Date   | 23/11/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 17/11/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 18/11/2021 To 19/11/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |                           |
|---|---------------------------|
| Stack No.   | S-5                       |
| Stack Attached to   | Coal Fire Boiler (70 TPH) |
| Stack Dimension [mm]  | 1900                      |
| Fuel Used   | Flue Gas Stack            |
| Date of Sample collection                                   | 16/11/2021                |
| Time of Sampling [Hrs]                                      | 13:35                     |
| Temperature of flue gas [°C]                                | 113                       |
| Average flue gas velocity [m/s]                             | 6.1                       |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 47780                     |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| PM              | mg/Nm <sup>3</sup> | 26.4    | 150.0           | IS 11255 (Part I) 1985      |
|                 | Kg/day             | 30.27   |                 |                             |
| Sulphur Dioxide | mg/Nm <sup>3</sup> | 437.1   | 3200.0          | IS 11255 (Part II) 1985     |
|                 | ppm v/v            | 167.0   |                 |                             |
|                 | Kg/day             | 501.26  |                 |                             |
| NO <sub>x</sub> | mg/Nm <sup>3</sup> | 212.5   | Not Specified   | IS 11255 (Part VII) 2005    |
|                 | ppm                | 113.0   |                 |                             |
|                 | Kg/day             | 243.64  |                 |                             |

s-5

End

For GADARK LAB PVT. LTD.

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/21/12/379   | Test Report Date   | 29/12/2021               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date .         | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 22/12/2021               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 23/12/2021 To 24/12/2021 |

### SAMPLING DETAILS - STACK EMISSION

|   |               |
|---|---------------|
| Stack No.   | S-2           |
| Stack Attached to   | NPK Train - 2 |
| Stack Dimension [mm]  | 2772          |
| Fuel Used   | Process Stack |
| Date of Sample collection                                   | 20/12/2021    |
| Time of Sampling [Hrs]                                      | 12:45         |
| Temperature of flue gas [°C]                                | 42            |
| Average flue gas velocity [m/s]                             | 10.1          |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 208389        |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 9.2     | 150.0           | IS 11255 (Part I) 1985      |
|            | Kg/day             | 46.01   |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | 4.0     | 300.0           | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | 5.8     |                 |                             |
|            | Kg/day             | 20.17   |                 |                             |
| Fluoride   | mg/Nm <sup>3</sup> | Nil     | 10.0            | IS 11255 (Part V) 2003      |
|            | ppm                | Nil     |                 |                             |
|            | Kg/day             | Nil     |                 |                             |

End

For GADARK LAB PVT. LTD.

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/265   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |   |
|---|---|
| Stack No.   | S-9                                     |
| Stack Attached to   | Ammonia Compressor D. G. Set (1010 KVA) |
| Stack Dimension [mm]  | 280                                     |
| Fuel Used   | Flue Gas Stack                          |
| Date of Sample collection                                   | 20/01/2022                              |
| Time of Sampling [Hrs]                                      | 11:25                                   |
| Temperature of flue gas [°C]                                | 148                                     |
| Average flue gas velocity [m/s]                             | 8.8                                     |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 1381                                    |

### ANALYSIS REPORT :

| Parameters   | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|--|--------------------|---------|-----------------|-----------------------------|
| PM (at 15% O <sub>2</sub> )                                    | mg/Nm <sup>3</sup> | 27.2    | 75.0 **         | IS 11255 (Part I) 1985      |
| Sulphur Dioxide  | mg/Nm <sup>3</sup> | 129.1   | 81.0 *          | IS 11255 (Part II) 1985     |
|  | ppm v/v            | 49.3    |                 |                             |
|  | Kg/day             | 4.28    |                 |                             |
| NO <sub>x</sub> [as NO <sub>2</sub> ] (at 15% O <sub>2</sub> ) | ppm v/v            | 17.8    | 710.0 **        | IS 11255 (Part VII) 2005    |
| CO (at 15% O <sub>2</sub> ) dry basis                          | mg/Nm <sup>3</sup> | 13.6    | 150.0 **        | APHA Edition II-134         |
| Non Methane Hydrocarbon (at 15% O <sub>2</sub> )               | mg/Nm <sup>3</sup> | 9.2     | 100.0 **        | IS 5182 (Part 21) 2001      |

\* - M.P.C.B. Limits

\*\* - MoEF GSR 489 (E), dtd. 09/07/2002 Limits

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/266   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                                   |
|---|-----------------------------------|
| Stack No.   | S-6                               |
| Stack Attached to   | Ammonia Plant D. G. Set (515 KVA) |
| Stack Dimension [mm]  | 210                               |
| Fuel Used   | Flue Gas Stack                    |
| Date of Sample collection                                   | 20/01/2022                        |
| Time of Sampling [Hrs]                                      | 10:50                             |
| Temperature of flue gas [°C]                                | 124                               |
| Average flue gas velocity [m/s]                             | 7.7                               |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 722                               |

### ANALYSIS REPORT :

| Parameters            | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------------|--------------------|---------|-----------------|-----------------------------|
| PM                    | g/kW-hr            | 0.0870  | ≤ 0.2 **        | IS 11255 (Part I) 1985      |
| Sulphur Dioxide       | mg/Nm <sup>3</sup> | 116.4   | 40.0 *          | IS 11255 (Part II) 1985     |
|                       | ppm v/v            | 44.5    |                 |                             |
|                       | Kg/day             | 2.02    |                 |                             |
| NO <sub>x</sub> + THC | g/kW-hr            | 0.0840  | ≤ 4.0 **        | IS 11255 (Part VII) 2005    |
| CO                    | g/kW-hr            | 0.0496  | ≤ 3.5 **        | APHA Edition II-134         |

\* - M.P.C.B. Limits

\*\* - MoEF GSR 489 (E), dtd. 09/07/2002 Limits

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/267   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                                |
|---|--------------------------------|
| Stack No.   | S-8                            |
| Stack Attached to   | ANP Plant D. G. Set (1000 KVA) |
| Stack Dimension [mm]  | 280                            |
| Fuel Used   | Flue Gas Stack                 |
| Date of Sample collection                                   | 20/01/2022                     |
| Time of Sampling [Hrs]                                      | 12:10                          |
| Temperature of flue gas [°C]                                | 151                            |
| Average flue gas velocity [m/s]                             | 8.4                            |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 1305                           |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| PM              | g/kW-hr            | 0.0865  | ≤ 0.2 **        | IS 11255 (Part I) 1985      |
| Sulphur Dioxide | mg/Nm <sup>3</sup> | 121.5   | 80.0 *          | IS 11255 (Part II) 1985     |
|                 | ppm v/v            | 46.4    |                 |                             |
|                 | Kg/day             | 3.80    |                 |                             |
| NOx + THC       | g/kW-hr            | 0.0833  | ≤ 4.0 **        | IS 11255 (Part VII) 2005    |
| CO              | g/kW-hr            | 0.0422  | ≤ 3.5 **        | APHA Edition II-134         |

\* - M.P.C.B. Limits

\*\* - MoEF GSR 489 (E), dtd. 09/07/2002 Limits

End

For GADARK LAB PVT. LTD.

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/268   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                                  |
|---|----------------------------------|
| Stack No.   | S-7                              |
| Stack Attached to   | WNA IV Plant D. G. Set (500 KVA) |
| Stack Dimension [mm]  | 200                              |
| Fuel Used   | Flue Gas Stack                   |
| Date of Sample collection                                   | 20/01/2022                       |
| Time of Sampling [Hrs]                                      | 13:30                            |
| Temperature of flue gas [°C]                                | 137                              |
| Average flue gas velocity [m/s]                             | 8.1                              |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 661                              |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| PM              | g/kW-hr            | 0.0760  | ≤ 0.2 **        | IS 11255 (Part I) 1985      |
| Sulphur Dioxide | mg/Nm <sup>3</sup> | 111.4   | 40.0 *          | IS 11255 (Part II) 1985     |
|                 | ppm v/v            | 42.6    |                 |                             |
|                 | Kg/day             | 1.77    |                 |                             |
| NOx + THC       | g/kW-hr            | 0.0761  | ≤ 4.0 **        | IS 11255 (Part VII) 2005    |
| CO              | g/kW-hr            | 0.0417  | ≤ 3.5 **        | APHA Edition II-134         |

\* - M.P.C.B. Limits

\*\* - MoEF GSR 489 (E), dtd. 09/07/2002 Limits

End

For GADARK LAB PVT. LTD.

  
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[KAILAS V. CHITALKAR]

  
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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/269   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                                  |
|---|----------------------------------|
| Stack No.   | S-10                             |
| Stack Attached to   | NPK IV Plant D. G. Set (750 KVA) |
| Stack Dimension [mm]  | 200                              |
| Fuel Used   | Flue Gas Stack                   |
| Date of Sample collection                                   | 20/01/2022                       |
| Time of Sampling [Hrs]                                      | 15:20                            |
| Temperature of flue gas [°C]                                | 121                              |
| Average flue gas velocity [m/s]                             | 8.1                              |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 693                              |

### ANALYSIS REPORT :

| Parameters            | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------------|--------------------|---------|-----------------|-----------------------------|
| PM                    | g/kW-hr            | 0.0486  | ≤ 0.2 **        | IS 11255 (Part I) 1985      |
| Sulphur Dioxide       | mg/Nm <sup>3</sup> | 124.0   | 64.0 *          | IS 11255 (Part II) 1985     |
|                       | ppm v/v            | 47.4    |                 |                             |
|                       | Kg/day             | 2.06    |                 |                             |
| NO <sub>x</sub> + THC | g/kW-hr            | 0.0541  | ≤ 4.0 **        | IS 11255 (Part VII) 2005    |
| CO                    | g/kW-hr            | 0.0313  | ≤ 3.5 **        | APHA Edition II-134         |

\* - M.P.C.B. Limits

\*\* - MoEF GSR 489 (E), dtd. 09/07/2002 Limits

End

For GADARK LAB PVT. LTD.

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[KAILAS V. CHITALKAR]

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |            |
|---------------------------|--|--------------------|------------|
| Test Report No.           | GA/22/01/255   | Test Report Date   | 25/01/2022 |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |            |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1     |
| Sampling Done By          | GLPL   | Sample Received on | 19/01/2022 |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 20/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                   |
|---|-------------------|
| Stack No.   | S-4               |
| Stack Attached to   | AN PRILLING TOWER |
| Stack Dimension [mm]  | 1632              |
| Fuel Used   | Process Stack     |
| Date of Sample collection                                   | 17/01/2022        |
| Time of Sampling [Hrs]                                      | 13:35             |
| Temperature of flue gas [°C]                                | 45                |
| Average flue gas velocity [m/s]                             | 24.0              |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 169212            |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 15.7    | 150.0           | IS 11255 (Part I) 1985      |
|            | Kg/day             | 63.76   |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | 8.7     | 300.0           | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | 12.5    |                 |                             |
|            | Kg/day             | 35.22   |                 |                             |

End

For GADARK LAB PVT. LTD.

  
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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |            |
|---------------------------|--|--------------------|------------|
| Test Report No.           | GA/22/01/256   | Test Report Date   | 25/01/2022 |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |            |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1     |
| Sampling Done By          | GLPL   | Sample Received on | 19/01/2022 |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 20/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |              |
|---|--------------|
| Stack No.   | G. P. Vent   |
| Stack Attached to   | G. P. Vent   |
| Stack Dimension [mm]  | 640          |
| Fuel Used   | Process Vent |
| Date of Sample collection                                   | 17/01/2022   |
| Time of Sampling [Hrs]                                      | 12:10        |
| Temperature of flue gas [°C]                                | 88           |
| Average flue gas velocity [m/s]                             | 4.9          |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 4685         |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 25.9    | ---             | IS 11255 (Part I) 1985      |
|            | Kg/day             | 2.91    |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | 15.6    | ---             | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | 22.5    |                 |                             |
|            | Kg/day             | 1.76    |                 |                             |

End

For GADARK LAB PVT. LTD.

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |            |
|---------------------------|--|--------------------|------------|
| Test Report No.           | GA/22/01/257   | Test Report Date   | 25/01/2022 |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |            |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1     |
| Sampling Done By          | GLPL   | Sample Received on | 19/01/2022 |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 20/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                          |
|---|--------------------------|
| Stack No.   | AN Venturi Scrubber Vent |
| Stack Attached to   | AN Venturi Scrubber      |
| Stack Dimension [mm]  | 1500                     |
| Fuel Used   | Process Vent             |
| Date of Sample collection                                   | 17/01/2022               |
| Time of Sampling [Hrs]                                      | 14:30                    |
| Temperature of flue gas [°C]                                | 34                       |
| Average flue gas velocity [m/s]                             | 12.4                     |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 76584                    |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 15.9    | ---             | IS 11255 (Part I) 1985      |
|            | Kg/day             | 29.22   |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | 18.2    | ---             | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | 26.2    |                 |                             |
|            | Kg/day             | 33.48   |                 |                             |

End

For GADARK LAB PVT. LTD.

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/258   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 24/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                               |
|---|-------------------------------|
| Stack No.   | CES - A Engine Exhaust Boiler |
| Stack Attached to   | CES - A Engine Exhaust Boiler |
| Stack Dimension [mm]  | 1500                          |
| Fuel Used   | Natural Gas                   |
| Date of Sample collection                                   | 19/01/2022                    |
| Time of Sampling [Hrs]                                      | 13:00                         |
| Temperature of flue gas [°C]                                | 58                            |
| Average flue gas velocity [m/s]                             | 5.5                           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 31649                         |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| Sulphur Dioxide | mg/Nm <sup>3</sup> | 25.5    | ---             | IS 11255 (Part II) 1985     |
|                 | ppm v/v            | 9.7     |                 |                             |
|                 | Kg/day             | 7.37    |                 |                             |
| NOx             | mg/Nm <sup>3</sup> | 242.9   | ---             | IS 11255 (Part VII) 2005    |
|                 | ppm                | 129.2   |                 |                             |
|                 | Kg/day             | 184.47  |                 |                             |
| CO              | mg/Nm <sup>3</sup> | 35.5    | ---             | APHA Edition II-134         |
|                 | ppm                | 31.0    |                 |                             |
|                 | Kg/day             | 26.97   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/259   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 24/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                               |
|---|-------------------------------|
| Stack No.   | CES – B Engine Exhaust Boiler |
| Stack Attached to   | CES – B Engine Exhaust Boiler |
| Stack Dimension [mm]  | 1500                          |
| Fuel Used   | Natural Gas                   |
| Date of Sample collection                                   | 19/01/2022                    |
| Time of Sampling [Hrs]                                      | 13:45                         |
| Temperature of flue gas [°C]                                | 52                            |
| Average flue gas velocity [m/s]                             | 5.1                           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 29607                         |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| Sulphur Dioxide | mg/Nm <sup>3</sup> | 40.5    | ---             | IS 11255 (Part II) 1985     |
|                 | ppm v/v            | 15.5    |                 |                             |
|                 | Kg/day             | 11.01   |                 |                             |
| NO <sub>x</sub> | mg/Nm <sup>3</sup> | 344.6   | ---             | IS 11255 (Part VII) 2005    |
|                 | ppm                | 183.4   |                 |                             |
|                 | Kg/day             | 244.90  |                 |                             |
| CO              | mg/Nm <sup>3</sup> | 129.8   | ---             | APHA Edition II-134         |
|                 | ppm                | 113.3   |                 |                             |
|                 | Kg/day             | 92.22   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

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# GADARK LAB PVT. LTD.

## INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

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OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/260   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|  |                          |
|--|--------------------------|
| Stack No.                                      | S-14                     |
| Stack Attached to                              | Ammonia Primary Reformer |
| Stack Dimension [mm]                           | 1373                     |
| Fuel Used                                      | Natural Gas              |
| Date of Sample collection                      | 19/01/2022               |
| Time of Sampling [Hrs]                         | 12:00                    |
| Temperature of flue gas [°C]                   | 140                      |
| Average flue gas velocity [m/s]                | 10.4                     |
| Average volume of flue gas discharged [Nm³/hr] | 40003                    |

### ANALYSIS REPORT :

| Parameters      | Unit    | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|---------|---------|-----------------|-----------------------------|
| Sulphur Dioxide | mg/Nm³  | 53.6    | ---             | IS 11255 (Part II) 1985     |
|                 | ppm v/v | 20.5    |                 |                             |
|                 | Kg/day  | 51.46   |                 |                             |
| CO              | mg/Nm³  | 174.5   | ---             | APHA Edition II-134         |
|                 | ppm     | 152.3   |                 |                             |
|                 | Kg/day  | 167.51  |                 |                             |
| Ammonia         | mg/Nm³  | Nil     | ---             | IS 11255 (Part VI) 1999     |
|                 | ppm v/v | Nil     |                 |                             |
|                 | Kg/day  | Nil     |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/260   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 2 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                          |
|---|--------------------------|
| Stack No.   | S-14                     |
| Stack Attached to   | Ammonia Primary Reformer |
| Stack Dimension [mm]  | 1373                     |
| Fuel Used   | Natural Gas              |
| Date of Sample collection                                   | 19/01/2022               |
| Time of Sampling [Hrs]                                      | 12:00                    |
| Temperature of flue gas [°C]                                | 140                      |
| Average flue gas velocity [m/s]                             | 10.4                     |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 40003                    |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | Nil     | --              | IS 11255 (Part I) 1985      |
|            | Kg/day             | Nil     |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/261   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 19/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 20/01/2022 To 22/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |               |
|---|---------------|
| Stack No.   | S-11          |
| Stack Attached to   | WNA – I Plant |
| Stack Dimension [mm]  | 953           |
| Fuel Used   | Process Stack |
| Date of Sample collection                                   | 18/01/2022    |
| Time of Sampling [Hrs]                                      | 10:35         |
| Temperature of flue gas [°C]                                | 55            |
| Average flue gas velocity [m/s]                             | 17.7          |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 41183         |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| NO <sub>2</sub> | mg/Nm <sup>3</sup> | 235.7   | 400.0           | IS 11255 (Part VII) 2005    |
|                 | ppm                | 125.4   |                 |                             |
|                 | Kg/day             | 233.86  |                 |                             |
| Ammonia         | mg/Nm <sup>3</sup> | 30.4    | Not Specified   | IS 11255 (Part VI) 1999     |
|                 | ppm v/v            | 43.8    |                 |                             |
|                 | Kg/day             | 30.08   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/261   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 2 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 19/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 20/01/2022 To 22/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |               |
|---|---------------|
| Stack No.   | S-11          |
| Stack Attached to   | WNA – I Plant |
| Stack Dimension [mm]  | 953           |
| Fuel Used   | Process Stack |
| Date of Sample collection                                   | 18/01/2022    |
| Time of Sampling [Hrs]                                      | 10:35         |
| Temperature of flue gas [°C]                                | 55            |
| Average flue gas velocity [m/s]                             | 17.7          |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 41183         |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 5.0     | Not Specified   | IS 11255 (Part I) 1985      |
|            | Kg/day             | 4.94    |                 |                             |

End

For GADARK LAB PVT. LTD.

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**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/262   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 19/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 20/01/2022 To 22/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                |
|---|----------------|
| Stack No.   | S-12           |
| Stack Attached to   | WNA – II Plant |
| Stack Dimension [mm]  | 953            |
| Fuel Used   | Process Stack  |
| Date of Sample collection                                   | 18/01/2022     |
| Time of Sampling [Hrs]                                      | 11:40          |
| Temperature of flue gas [°C]                                | 54             |
| Average flue gas velocity [m/s]                             | 17.4           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 40666          |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| NO <sub>2</sub> | mg/Nm <sup>3</sup> | 253.6   | 400.0           | IS 11255 (Part VII) 2005    |
|                 | ppm                | 134.9   |                 |                             |
|                 | Kg/day             | 248.41  |                 |                             |
| Ammonia         | mg/Nm <sup>3</sup> | 18.3    | Not Specified   | IS 11255 (Part VI) 1999     |
|                 | ppm v/v            | 26.3    |                 |                             |
|                 | Kg/day             | 17.82   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/262   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 2 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 19/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 20/01/2022 To 22/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                |
|---|----------------|
| Stack No.   | S-12           |
| Stack Attached to   | WNA – II Plant |
| Stack Dimension [mm]  | 953            |
| Fuel Used   | Process Stack  |
| Date of Sample collection                                   | 18/01/2022     |
| Time of Sampling [Hrs]                                      | 11:40          |
| Temperature of flue gas [°C]                                | 54             |
| Average flue gas velocity [m/s]                             | 17.4           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 40666          |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 4.1     | Not Specified   | IS 11255 (Part I) 1985      |
|            | Kg/day             | 4.00    |                 |                             |

End

For GADARK LAB PVT. LTD.

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/263   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 19/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 20/01/2022 To 22/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                |
|---|----------------|
| Stack No.   | S-13           |
| Stack Attached to   | WNA – IV Plant |
| Stack Dimension [mm]  | 953            |
| Fuel Used   | Process Stack  |
| Date of Sample collection                                   | 18/01/2022     |
| Time of Sampling [Hrs]                                      | 12:40          |
| Temperature of flue gas [°C]                                | 142            |
| Average flue gas velocity [m/s]                             | 17.5           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 32273          |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| NO <sub>2</sub> | mg/Nm <sup>3</sup> | 205.4   | 400.0           | IS 11255 (Part VII) 2005    |
|                 | ppm                | 109.2   |                 |                             |
|                 | Kg/day             | 159.66  |                 |                             |
| Ammonia         | mg/Nm <sup>3</sup> | 24.3    | Not Specified   | IS 11255 (Part VI) 1999     |
|                 | ppm v/v            | 35.0    |                 |                             |
|                 | Kg/day             | 18.86   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/263   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 2 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 19/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 20/01/2022 To 22/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                |
|---|----------------|
| Stack No.   | S-13           |
| Stack Attached to   | WNA – IV Plant |
| Stack Dimension [mm]  | 953            |
| Fuel Used   | Process Stack  |
| Date of Sample collection                                   | 18/01/2022     |
| Time of Sampling [Hrs]                                      | 12:40          |
| Temperature of flue gas [°C]                                | 142            |
| Average flue gas velocity [m/s]                             | 17.5           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 32273          |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 3.7     | Not Specified   | IS 11255 (Part I) 1985      |
|            | Kg/day             | 2.87    |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/264   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 24/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                           |
|---|---------------------------|
| Stack No.   | S-5                       |
| Stack Attached to   | Coal Fire Boiler (70 TPH) |
| Stack Dimension [mm]  | 1900                      |
| Fuel Used   | Flue Gas Stack            |
| Date of Sample collection                                   | 21/01/2022                |
| Time of Sampling [Hrs]                                      | 13:30                     |
| Temperature of flue gas [°C]                                | 122                       |
| Average flue gas velocity [m/s]                             | 5.9                       |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 45247                     |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| PM              | mg/Nm <sup>3</sup> | 28.1    | 150.0           | IS 11255 (Part I) 1985      |
|                 | Kg/day             | 30.51   |                 |                             |
| Sulphur Dioxide | mg/Nm <sup>3</sup> | 476.9   | 3200.0          | IS 11255 (Part II) 1985     |
|                 | ppm v/v            | 182.2   |                 |                             |
|                 | Kg/day             | 517.92  |                 |                             |
| NO <sub>x</sub> | mg/Nm <sup>3</sup> | 211.1   | Not Specified   | IS 11255 (Part VII) 2005    |
|                 | ppm                | 112.3   |                 |                             |
|                 | Kg/day             | 229.29  |                 |                             |

s-5

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## INDUSTRIAL ANALYSTS & CONSULTANTS

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OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/02/271   | Test Report Date   | 01/03/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 23/02/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 24/02/2022 To 26/02/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |               |
|---|---------------|
| Stack No.   | S-2           |
| Stack Attached to   | NPK Train – 2 |
| Stack Dimension [mm]  | 2772          |
| Fuel Used   | Process Stack |
| Date of Sample collection                                   | 21/02/2022    |
| Time of Sampling [Hrs]                                      | 13:40         |
| Temperature of flue gas [°C]                                | 45            |
| Average flue gas velocity [m/s]                             | 9.8           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 198533        |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 8.5     | 150.0           | IS 11255 (Part I) 1985      |
|            | Kg/day             | 40.50   |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | 3.2     | 300.0           | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | 4.6     |                 |                             |
|            | Kg/day             | 15.33   |                 |                             |
| Fluoride   | mg/Nm <sup>3</sup> | Nil     | 10.0            | IS 11255 (Part V) 2003      |
|            | ppm                | Nil     |                 |                             |
|            | Kg/day             | Nil     |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/02/271   | Test Report Date   | 01/03/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 2 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 23/02/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 24/02/2022 To 26/02/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |               |
|---|---------------|
| Stack No.   | S-2           |
| Stack Attached to   | NPK Train – 2 |
| Stack Dimension [mm]  | 2772          |
| Fuel Used   | Process Stack |
| Date of Sample collection                                   | 21/02/2022    |
| Time of Sampling [Hrs]                                      | 13:40         |
| Temperature of flue gas [°C]                                | 45            |
| Average flue gas velocity [m/s]                             | 9.8           |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 198533        |

### ANALYSIS REPORT :

| Parameters | Unit               | Results      | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|--------------|-----------------|-----------------------------|
| HCl        | mg/Nm <sup>3</sup> | Not Detected | ---             | IS 11255 (Part I) 1985      |
|            | ppm                | Not Detected |                 |                             |
| NOx        | mg/Nm <sup>3</sup> | Not Detected | ---             | IS 11255 (Part VII) 2005    |
|            | ppm                | Not Detected |                 |                             |
|            | Kg/day             | Not Detected |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/260   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                          |
|---|--------------------------|
| Stack No.   | S-14                     |
| Stack Attached to   | Ammonia Primary Reformer |
| Stack Dimension [mm]  | 1373                     |
| Fuel Used   | Natural Gas              |
| Date of Sample collection                                   | 19/01/2022               |
| Time of Sampling [Hrs]                                      | 12:00                    |
| Temperature of flue gas [°C]                                | 140                      |
| Average flue gas velocity [m/s]                             | 10.4                     |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 40003                    |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| Sulphur Dioxide | mg/Nm <sup>3</sup> | 53.6    | ---             | IS 11255 (Part II) 1985     |
|                 | ppm v/v            | 20.5    |                 |                             |
|                 | Kg/day             | 51.46   |                 |                             |
| CO              | mg/Nm <sup>3</sup> | 174.5   | ---             | APHA Edition II-134         |
|                 | ppm                | 152.3   |                 |                             |
|                 | Kg/day             | 167.51  |                 |                             |
| NO <sub>x</sub> | mg/Nm <sup>3</sup> | 40.5    | 400.0           | IS 11255 (Part VII) 2005    |
|                 | ppm v/v            | 21.6    |                 |                             |
|                 | Kg/day             | 38.92   |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/01/260   | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 2 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 21/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 22/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                          |
|---|--------------------------|
| Stack No.   | S-14                     |
| Stack Attached to   | Ammonia Primary Reformer |
| Stack Dimension [mm]  | 1373                     |
| Fuel Used   | Natural Gas              |
| Date of Sample collection                                   | 19/01/2022               |
| Time of Sampling [Hrs]                                      | 12:00                    |
| Temperature of flue gas [°C]                                | 140                      |
| Average flue gas velocity [m/s]                             | 10.4                     |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 40003                    |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | Nil     | --              | IS 11255 (Part I) 1985      |
|            | Kg/day             | Nil     |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | Nil     | --              | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | Nil     |                 |                             |
|            | Kg/day             | Nil     |                 |                             |

End

For GADARK LAB PVT. LTD.

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/03/400   | Test Report Date   | 30/03/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 24/03/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 25/03/2022 To 28/03/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                    |
|---|--------------------|
| Stack No.   | S-3                |
| Stack Attached to   | ANP Prilling Tower |
| Stack Dimension [mm]  | 1655               |
| Fuel Used   | Process Stack      |
| Date of Sample collection                                   | 24/03/2022         |
| Time of Sampling [Hrs]                                      | 13:15              |
| Temperature of flue gas [°C]                                | 46                 |
| Average flue gas velocity [m/s]                             | 24.4               |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 176366             |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| PM         | mg/Nm <sup>3</sup> | 12.3    | 150.0           | IS 11255 (Part I) 1985      |
|            | Kg/day             | 52.06   |                 |                             |
| Ammonia    | mg/Nm <sup>3</sup> | 15.8    | 300.0           | IS 11255 (Part VI) 1999     |
|            | ppm v/v            | 22.7    |                 |                             |
|            | Kg/day             | 66.94   |                 |                             |
| Fluoride   | mg/Nm <sup>3</sup> | Nil     | 10.0            | IS 11255 (Part V) 2003      |
|            | ppm                | Nil     |                 |                             |
|            | Kg/day             | Nil     |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/03/400   | Test Report Date   | 30/03/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 2 of 2                   |
| Sampling Done By          | GLPL   | Sample Received on | 24/03/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 25/03/2022 To 28/03/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                    |
|---|--------------------|
| Stack No.   | S-3                |
| Stack Attached to   | ANP Prilling Tower |
| Stack Dimension [mm]  | 1655               |
| Fuel Used   | Process Stack      |
| Date of Sample collection                                   | 24/03/2022         |
| Time of Sampling [Hrs]                                      | 13:15              |
| Temperature of flue gas [°C]                                | 46                 |
| Average flue gas velocity [m/s]                             | 24.4               |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 176366             |

### ANALYSIS REPORT :

| Parameters | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|------------|--------------------|---------|-----------------|-----------------------------|
| NOx        | mg/Nm <sup>3</sup> | Nil     | ---             | IS 11255 (Part VII) 2005    |
|            | ppm                | Nil     |                 |                             |
|            | Kg/day             | Nil     |                 |                             |
| HCl        | mg/Nm <sup>3</sup> | Nil     | Not Specified   | By Morris B. Jacob          |
|            | ppm v/v            | Nil     |                 |                             |

End

For GADARK LAB PVT. LTD.

*Reetu*

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

*[Signature]*

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## TEST REPORT

Doc.No : GLPL/QF/7.8/02

|                           |  |                    |                          |
|---------------------------|--|--------------------|--------------------------|
| Test Report No.           | GA/22/03/401   | Test Report Date   | 30/03/2022               |
| Customer Name and Address | M/s. SMARTCHEM TECHNOLOGIES LIMITED<br>PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 2100009371 / 24-08-21  | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL   | Sample Received on | 24/03/2022               |
| Sampling Plan             | GLPL/QF/7.3/06   | Analysis Period    | 25/03/2022 To 26/03/2022 |

### SAMPLING DETAILS - STACK EMISSION

|   |                           |
|---|---------------------------|
| Stack No.   | S-5                       |
| Stack Attached to   | Coal Fire Boiler (70 TPH) |
| Stack Dimension [mm]  | 1900                      |
| Fuel Used   | Flue Gas Stack            |
| Date of Sample collection                                   | 22/03/2022                |
| Time of Sampling [Hrs]                                      | 14:40                     |
| Temperature of flue gas [°C]                                | 124                       |
| Average flue gas velocity [m/s]                             | 5.8                       |
| Average volume of flue gas discharged [Nm <sup>3</sup> /hr] | 44061                     |

### ANALYSIS REPORT :

| Parameters      | Unit               | Results | M.P.C.B. Limits | Sampling & Analysis Methods |
|-----------------|--------------------|---------|-----------------|-----------------------------|
| PM              | mg/Nm <sup>3</sup> | 26.9    | 150.0           | IS 11255 (Part I) 1985      |
|                 | Kg/day             | 28.45   |                 |                             |
| Sulphur Dioxide | mg/Nm <sup>3</sup> | 459.1   | 3200.0          | IS 11255 (Part II) 1985     |
|                 | ppm v/v            | 175.4   |                 |                             |
|                 | Kg/day             | 485.48  |                 |                             |
| NOx             | mg/Nm <sup>3</sup> | 213.1   | Not Specified   | IS 11255 (Part VII) 2005    |
|                 | ppm                | 113.4   |                 |                             |
|                 | Kg/day             | 225.38  |                 |                             |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

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## **Annexure 2: Ambient Air Monitoring Reports**





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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Certificate No.      | GA/21/10/257  | T. C. Date         | 25/10/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date .         | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 19/10/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 20/10/2021 To 25/10/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Methanol Gate   |                          |      |                       |      |
| Date of Sampling  | 18/10/2021           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 11:05             | 24                   | 21                       | 31   | 39                    | 71   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 60.83   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 31.95   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 35.21   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 38.65   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.25    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.15    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 9.72    | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 11.25   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 3.90    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |
| HCl               | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

\*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## INDUSTRIAL ANALYSTS & CONSULTANTS

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

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Certificate No.      | GA/21/10/258  | T. C. Date         | 25/10/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 19/10/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 20/10/2021 To 25/10/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near IPA Gate        |                          |      |                       |      |
| Date of Sampling  | 18/10/2021           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 11:50             | 24                   | 21                       | 31   | 39                    | 71   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 57.98   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 28.46   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 30.13   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 33.95   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.09    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.14    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 11.05   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 12.50   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 6.10    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |
| HCl               | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

\*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Certificate No.      | GA/21/10/259  | T. C. Date         | 25/10/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date .         | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 19/10/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 20/10/2021 To 25/10/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                         |                          |      |                       |      |
|-------------------|-------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near WNA III Plant Area |                          |      |                       |      |
| Date of Sampling  | 18/10/2021              |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling    | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                   | Min.                     | Max. | Min.                  | Max. |
| 11:35             | 24                      | 21                       | 31   | 39                    | 71   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 60.12   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 32.00   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 32.76   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 36.21   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.21    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.15    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 6.63    | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 13.33   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 6.44    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |
| HCl               | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

\*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Certificate No.      | GA/21/10/260  | T. C. Date         | 25/10/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 19/10/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 20/10/2021 To 25/10/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                          |                          |      |                       |      |
|-------------------|--------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Acid Tank Farm Area |                          |      |                       |      |
| Date of Sampling  | 18/10/2021               |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling     | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                    | Min.                     | Max. | Min.                  | Max. |
| 11:20             | 24                       | 21                       | 31   | 39                    | 71   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 60.46   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 32.38   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 30.83   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 34.19   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.15    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.13    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 10.16   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 9.38    | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII) 2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 5.56    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |
| HCl               | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

\*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/21/11/146  | Test Report Date   | 22/11/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 16/11/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 17/11/2021 To 22/11/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Methanol Gate   |                          |      |                       |      |
| Date of Sampling  | 15/11/2021           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 10:25             | 24                   | 21                       | 32   | 36                    | 74   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 62.89   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 33.55   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 32.43   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 35.71   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.24    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.18    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 13.26   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 12.92   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 7.76    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

\*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/21/11/147  | Test Report Date   | 22/11/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 16/11/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 17/11/2021 To 22/11/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near IPA Gate        |                          |      |                       |      |
| Date of Sampling  | 15/11/2021           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 10:55             | 24                   | 21                       | 32   | 36                    | 74   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 59.23   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 30.15   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 32.71   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 36.23   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.18    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.15    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 9.28    | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 10.17   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 7.25    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

\*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/21/11/148  | Test Report Date   | 22/11/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 16/11/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 17/11/2021 To 22/11/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                         |                          |      |                       |      |
|-------------------|-------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near WNA III Plant Area |                          |      |                       |      |
| Date of Sampling  | 15/11/2021              |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling    | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                   | Min.                     | Max. | Min.                  | Max. |
| 10:40             | 24                      | 21                       | 32   | 36                    | 74   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 64.12   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 35.71   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 34.65   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 38.19   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.22    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.16    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 8.40    | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 10.75   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 5.24    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/21/11/149  | Test Report Date   | 22/11/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 16/11/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 17/11/2021 To 22/11/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                          |                          |      |                       |      |
|-------------------|--------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Acid Tank Farm Area |                          |      |                       |      |
| Date of Sampling  | 15/11/2021               |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling     | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                    | Min.                     | Max. | Min.                  | Max. |
| 13:45             | 24                       | 21                       | 32   | 36                    | 74   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 59.43   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 28.21   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 33.18   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 37.34   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.20    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.13    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 8.84    | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 13.29   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 6.85    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

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[KAILAS V. CHITALKAR]

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/21/12/366  | Test Report Date   | 28/12/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 21/12/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 22/12/2021 To 28/12/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Methanol Gate   |                          |      |                       |      |
| Date of Sampling  | 20/12/2021           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 11:05             | 24                   | 23                       | 31   | 38                    | 70   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 60.53   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 31.69   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 33.76   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 36.41   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.15    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.13    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 11.05   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 11.79   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII) 2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 11.45   | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/21/12/367  | Test Report Date   | 28/12/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date .         | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 21/12/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 22/12/2021 To 28/12/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near IPA Gate        |                          |      |                       |      |
| Date of Sampling  | 20/12/2021           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 11:35             | 24                   | 23                       | 31   | 38                    | 70   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 61.38   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 30.95   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 34.16   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 38.42   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.04    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.11    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 10.16   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 12.96   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 5.68    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/21/12/368  | Test Report Date   | 28/12/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date .         | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 21/12/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 22/12/2021 To 28/12/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                         |                          |      |                       |      |
|-------------------|-------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near WNA III Plant Area |                          |      |                       |      |
| Date of Sampling  | 20/12/2021              |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling    | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                   | Min.                     | Max. | Min.                  | Max. |
| 11:20             | 24                      | 23                       | 31   | 38                    | 70   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 62.46   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 33.71   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 30.12   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 33.65   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 0.94    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.14    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 7.07    | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 11.17   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 8.38    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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5. Customer complaint register is available at laboratory.



# GADARK LAB PVT. LTD.

## INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/21/12/369  | Test Report Date   | 28/12/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 21/12/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 22/12/2021 To 28/12/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                          |                          |      |                       |      |
|-------------------|--------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Acid Tank Farm Area |                          |      |                       |      |
| Date of Sampling  | 20/12/2021               |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling     | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                    | Min.                     | Max. | Min.                  | Max. |
| 14:00             | 24                       | 23                       | 31   | 38                    | 70   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 62.44   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 31.96   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 30.89   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 34.27   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.25    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.15    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 13.26   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 16.67   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 9.67    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

### \*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/DF/12187/21  | Test Report Date   | 28/12/2021               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date .         | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 21/12/2021               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 22/12/2021 To 28/12/2021 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Main Gate (K-6) |                          |      |                       |      |
| Date of Sampling  | 20/12/2021           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 15:55             | 24                   | 23                       | 31   | 38                    | 70   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 65.44   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 36.81   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 36.42   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 39.53   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.25    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.10    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 8.58    | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 14.38   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 7.19    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |
| HCl               | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/01/283  | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 19/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 20/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Methanol Gate   |                          |      |                       |      |
| Date of Sampling  | 17/01/2022           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 10:35             | 24                   | 19                       | 31   | 33                    | 68   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 62.44   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 33.46   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 34.19   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 37.23   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.20    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.15    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 14.14   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 12.96   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 5.73    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |
| HCl               | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

\*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/01/284  | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 19/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 20/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near IPA Gate        |                          |      |                       |      |
| Date of Sampling  | 17/01/2022           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 14:10             | 24                   | 19                       | 31   | 33                    | 68   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 59.85   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 32.11   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 30.44   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 34.19   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.15    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.13    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 13.26   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 10.25   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 6.12    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |
| HCl               | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/01/285  | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 19/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 20/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                         |                          |      |                       |      |
|-------------------|-------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near WNA III Plant Area |                          |      |                       |      |
| Date of Sampling  | 17/01/2022              |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling    | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                   | Min.                     | Max. | Min.                  | Max. |
| 10:50             | 24                      | 19                       | 31   | 33                    | 68   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 64.63   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 31.98   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 28.65   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 32.93   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.04    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.15    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 8.40    | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 8.79    | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 8.06    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |
| HCl               | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/01/286  | Test Report Date   | 25/01/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 19/01/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 20/01/2022 To 25/01/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                          |                          |      |                       |      |
|-------------------|--------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Acid Tank Farm Area |                          |      |                       |      |
| Date of Sampling  | 17/01/2022               |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling     | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                    | Min.                     | Max. | Min.                  | Max. |
| 11:05             | 24                       | 19                       | 31   | 33                    | 68   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 60.57   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 32.43   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 32.11   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 35.49   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.21    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.13    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 11.49   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 14.75   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 6.17    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |
| HCl               | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/02/221  | Test Report Date   | 28/02/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 22/02/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 23/02/2022 To 28/02/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Methanol Gate   |                          |      |                       |      |
| Date of Sampling  | 21/02/2022           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 11:30             | 24                   | 19                       | 30   | 35                    | 76   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 63.54   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 31.68   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 32.95   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 35.42   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.18    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.14    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 15.47   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 8.25    | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 7.13    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/02/222  | Test Report Date   | 28/02/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 22/02/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 23/02/2022 To 28/02/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near IPA Gate        |                          |      |                       |      |
| Date of Sampling  | 21/02/2022           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 12:00             | 24                   | 19                       | 30   | 35                    | 76   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 61.66   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 30.59   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 32.32   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 35.17   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 0.94    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.10    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 10.60   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 15.83   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 9.97    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

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## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/02/223  | Test Report Date   | 28/02/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 22/02/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 23/02/2022 To 28/02/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                         |                          |      |                       |      |
|-------------------|-------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near WNA III Plant Area |                          |      |                       |      |
| Date of Sampling  | 21/02/2022              |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling    | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                   | Min.                     | Max. | Min.                  | Max. |
| 11:45             | 24                      | 19                       | 30   | 35                    | 76   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 62.41   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 29.63   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 30.42   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 33.65   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.09    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.09    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 9.28    | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 10.46   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 13.08   | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

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## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/02/224  | Test Report Date   | 28/02/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 22/02/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 23/02/2022 To 28/02/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                          |                          |      |                       |      |
|-------------------|--------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Acid Tank Farm Area |                          |      |                       |      |
| Date of Sampling  | 21/02/2022               |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling     | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                    | Min.                     | Max. | Min.                  | Max. |
| 15:00             | 24                       | 19                       | 30   | 35                    | 76   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 62.19   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 30.91   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 33.16   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 36.29   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.23    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.12    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 12.81   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 11.04   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 6.73    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

### \*N.A.A.Q.S. – National Ambient Air Quality Standards

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For GADARK LAB PVT. LTD.

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## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/03/412  | Test Report Date   | 30/03/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA - PANVEL, DIST. - RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 24/03/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 25/03/2022 To 30/03/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Methanol Gate   |                          |      |                       |      |
| Date of Sampling  | 22/03/2022           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 12:50             | 24                   | 24                       | 34   | 35                    | 70   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 60.64   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 33.81   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 30.47   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 33.84   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.21    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.13    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 19.20   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 10.25   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 12.15   | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

\*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

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[KAILAS V. CHITALKAR]

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OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/03/413  | Test Report Date   | 30/03/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 24/03/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 25/03/2022 To 30/03/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                      |                          |      |                       |      |
|-------------------|----------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near IPA Gate        |                          |      |                       |      |
| Date of Sampling  | 22/03/2022           |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                | Min.                     | Max. | Min.                  | Max. |
| 14:00             | 24                   | 24                       | 34   | 35                    | 70   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 64.13   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 32.68   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 34.23   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 37.51   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.04    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.12    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 13.17   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 17.63   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 13.71   | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

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[KAILAS V. CHITALKAR]

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## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/03/414  | Test Report Date   | 30/03/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 24/03/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 25/03/2022 To 30/03/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                         |                          |      |                       |      |
|-------------------|-------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near WNA III Plant Area |                          |      |                       |      |
| Date of Sampling  | 22/03/2022              |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling    | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                   | Min.                     | Max. | Min.                  | Max. |
| 13:45             | 24                      | 24                       | 34   | 35                    | 70   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 59.89   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 31.55   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 32.41   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 35.29   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.14    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.10    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 11.52   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 14.83   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII) 2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 8.96    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST REPORT

Doc.No : GLPL/QF/7.8/03

|                           |   |                    |                          |
|---------------------------|---|--------------------|--------------------------|
| Test Report No.           | GA/22/03/415  | Test Report Date   | 30/03/2022               |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                    |                          |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.           | 1 of 1                   |
| Sampling Done By          | GLPL  | Sample Received on | 24/03/2022               |
| Sampling Plan             | GLPL/QF/7.3/06  | Analysis Period    | 25/03/2022 To 30/03/2022 |

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

|                   |                          |                          |      |                       |      |
|-------------------|--------------------------|--------------------------|------|-----------------------|------|
| Sampling Location | Near Acid Tank Farm Area |                          |      |                       |      |
| Date of Sampling  | 22/03/2022               |                          |      |                       |      |
| Time of Sampling  | Duration of Sampling     | Ambient Temperature [°C] |      | Relative Humidity [%] |      |
| [Hrs]             | [Hrs]                    | Min.                     | Max. | Min.                  | Max. |
| 15:15             | 24                       | 24                       | 34   | 35                    | 70   |

### ANALYSIS REPORT :-

| Parameters        | Unit              | Results | *N.A.A.Q.S.      | Sampling & Analysis Methods  |
|-------------------|-------------------|---------|------------------|--|
| PM <sub>10</sub>  | µg/m <sup>3</sup> | 60.12   | 100.0            | IS 5182 (Part XXIII) 2006  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 32.89   | 60.0             | USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016                               |
| SO <sub>2</sub>   | µg/m <sup>3</sup> | 29.63   | 80.0             | IS 5182 (Part II) 2001   |
| NO <sub>2</sub>   | µg/m <sup>3</sup> | 35.16   | 80.0             | IS 5182 (Part VI) 2006   |
| CO                | mg/m <sup>3</sup> | 1.18    | 2.0 for 8 Hrs.   | IS 5182 (Part X) 1999  |
| Lead              | µg/m <sup>3</sup> | 0.12    | 1.0              | IS 5182 (Part XXII) 2004   |
| Ozone             | µg/m <sup>3</sup> | 15.91   | 100.0 for 8 Hrs. | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 411 2016 |
| Ammonia           | µg/m <sup>3</sup> | 12.42   | 400.0            | ISC Method of Air Sampling & Analysis 3 <sup>rd</sup> Edition, Method 401 2016 |
| Benzene           | µg/m <sup>3</sup> | < 1.0   | 5.0              | IS 5182 (Part XI) 2006   |
| Benzo Pyrene      | ng/m <sup>3</sup> | < 0.1   | 1.0              | IS 5182 (Part XII):2004  |
| Arsenic           | ng/m <sup>3</sup> | < 0.4   | 6.0              | IS 5182 (Part XXII) 2004   |
| Nickel            | ng/m <sup>3</sup> | 9.18    | 20.0             | IS 5182 (Part XXII) 2004   |
| Hydrocarbon       | µg/m <sup>3</sup> | < 1.0   | Not Specified    | IS 5182 (Part XVII) 1979   |
| Fluoride          | mg/m <sup>3</sup> | < 0.010 | Not Specified    | IS 5182 (Part XIII) 1991   |
| SO <sub>3</sub>   | µg/m <sup>3</sup> | < 6.0   | Not Specified    | ASTM D 3226  |
| Acid Mist         | µg/m <sup>3</sup> | < 1.0   | Not Specified    | By Morris B. Jacob   |

\*N.A.A.Q.S. – National Ambient Air Quality Standards

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

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## **Annexure 3: Ambient Noise Monitoring Reports**



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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/04

|                           |   |                     |            |
|---------------------------|---|---------------------|------------|
| Test Certificate No.      | GA/21/10/264  | T. C. Date          | 25/10/2021 |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                     |            |
| P.O. No. / Date .         | 1100007464 / 24-08-21   | Page No.            | 1 of 1     |
| Sampling Plan             | GLPL/QF/7.3/06  | Measurement Done By | GLPL       |

### AMBIENT NOISE LEVEL MEASUREMENT :

|                     |                     |
|---------------------|---------------------|
| Date of Measurement | 18/10/2021          |
| Test Method         | GLPL/SOP/AA/17:2014 |

| Sr. No.         | LOCATION                | NOISE LEVEL dB (A)     |                          |
|-----------------|-------------------------|------------------------|--------------------------|
|                 |                         | DAY TIME<br>11:10 HRS. | NIGHT TIME<br>22:50 HRS. |
| 01              | Near Methanol Gate Area | 62.7                   | 55.9                     |
| 02              | Near IPA gate Area      | 73.6                   | 67.5                     |
| 03              | Near WNA III Area       | 73.9                   | 68.2                     |
| 04              | Near GT – II Area       | 73.5                   | 67.4                     |
| 05              | Near Utility Area       | 74.0                   | 66.9                     |
| 06              | Near Time Office Area   | 62.1                   | 56.4                     |
| 07              | Near Store Area         | 59.2                   | 54.8                     |
| 08              | Near Acid Tank Area     | 67.6                   | 57.3                     |
| M.P.C.B. LIMITS |                         | 75.0                   | 70.0                     |

End

For GADARK LAB PVT. LTD.

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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/04

|                           |   |                     |            |
|---------------------------|---|---------------------|------------|
| Test Report No.           | GA/21/11/153  | Test Report Date    | 22/11/2021 |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                     |            |
| P.O. No. / Date .         | 1100007464 / 24-08-21   | Page No.            | 1 of 1     |
| Sampling Plan             | GLPL/QF/7.3/06  | Measurement Done By | GLPL       |

### AMBIENT NOISE LEVEL MEASUREMENT :

|                     |                     |
|---------------------|---------------------|
| Date of Measurement | 15/11/2021          |
| Test Method         | GLPL/SOP/AA/17:2014 |

| Sr. No.         | LOCATION                | NOISE LEVEL dB (A)     |                          |
|-----------------|-------------------------|------------------------|--------------------------|
|                 |                         | DAY TIME<br>10:30 HRS. | NIGHT TIME<br>22:40 HRS. |
| 01              | Near Methanol Gate Area | 61.7                   | 57.4                     |
| 02              | Near IPA gate Area      | 72.9                   | 68.6                     |
| 03              | Near WNA III Area       | 74.2                   | 68.8                     |
| 04              | Near GT – II Area       | 73.8                   | 69.0                     |
| 05              | Near Utility Area       | 73.7                   | 68.6                     |
| 06              | Near Time Office Area   | 62.3                   | 58.1                     |
| 07              | Near Store Area         | 59.6                   | 56.4                     |
| 08              | Near Acid Tank Area     | 67.9                   | 57.2                     |
| M.P.C.B. LIMITS |                         | 75.0                   | 70.0                     |

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
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## TEST CERTIFICATE

Doc.No : GLPL/QF/7.8/04

|                           |   |                     |            |
|---------------------------|---|---------------------|------------|
| Test Report No.           | GA/21/12/373  | Test Report Date    | 28/12/2021 |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                     |            |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.            | 1 of 1     |
| Sampling Plan             | GLPL/QF/7.3/06  | Measurement Done By | GLPL       |

### AMBIENT NOISE LEVEL MEASUREMENT :

|                     |                     |
|---------------------|---------------------|
| Date of Measurement | 20/12/2021          |
| Test Method         | GLPL/SOP/AA/17:2014 |

| Sr. No.         | LOCATION                | NOISE LEVEL dB (A)     |                          |
|-----------------|-------------------------|------------------------|--------------------------|
|                 |                         | DAY TIME<br>11:10 HRS. | NIGHT TIME<br>22:30 HRS. |
| 01              | Near Methanol Gate Area | 62.1                   | 56.3                     |
| 02              | Near IPA gate Area      | 73.9                   | 67.9                     |
| 03              | Near WNA III Area       | 74.0                   | 68.3                     |
| 04              | Near GT – II Area       | 74.3                   | 69.1                     |
| 05              | Near Utility Area       | 74.4                   | 68.6                     |
| 06              | Near Time Office Area   | 61.7                   | 56.3                     |
| 07              | Near Store Area         | 59.6                   | 54.7                     |
| 08              | Near Acid Tank Area     | 69.4                   | 57.8                     |
| M.P.C.B. LIMITS |                         | 75.0                   | 70.0                     |

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
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Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST REPORT

Doc.No : GLPL/QF/7.8/04

|                           |   |                     |            |
|---------------------------|---|---------------------|------------|
| Test Report No.           | GA/22/01/290  | Test Report Date    | 25/01/2022 |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                     |            |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.            | 1 of 1     |
| Sampling Plan             | GLPL/QF/7.3/06  | Measurement Done By | GLPL       |

### AMBIENT NOISE LEVEL MEASUREMENT :

|                     |                     |
|---------------------|---------------------|
| Date of Measurement | 17/01/2022          |
| Test Method         | GLPL/SOP/AA/17:2014 |

| Sr. No.         | LOCATION                   | NOISE LEVEL dB (A)     |                          |
|-----------------|----------------------------|------------------------|--------------------------|
|                 |                            | DAY TIME<br>10:40 HRS. | NIGHT TIME<br>22:50 HRS. |
| 01              | Near Methanol Gate Area    | 62.1                   | 57.4                     |
| 02              | Near IPA gate Area         | 74.0                   | 68.7                     |
| 03              | Near WNA III Area          | 74.2                   | 68.9                     |
| 04              | Near GT – II Area          | 69.8                   | 68.0                     |
| 05              | Near Utility Area          | 74.3                   | 69.3                     |
| 06              | Near Time Office Area      | 60.2                   | 56.8                     |
| 07              | Near Store Area            | 57.9                   | 57.0                     |
| 08              | Near Acid Tank Area        | 66.7                   | 57.6                     |
| 09              | K-6 Plant – Near Main Gate | 60.7                   | 56.5                     |
| M.P.C.B. LIMITS |                            | 75.0                   | 70.0                     |

End

For GADARK LAB PVT. LTD.

  
AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]

  
CHECKED BY

**Note :**

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



# GADARK LAB PVT. LTD.

## INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.

Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.

Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST REPORT

Doc.No : GLPL/QF/7.8/04

|                           |   |                     |            |
|---------------------------|---|---------------------|------------|
| Test Report No.           | GA/22/02/228  | Test Report Date    | 28/02/2022 |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                     |            |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.            | 1 of 1     |
| Sampling Plan             | GLPL/QF/7.3/06  | Measurement Done By | GLPL       |

### AMBIENT NOISE LEVEL MEASUREMENT :

|                     |                     |
|---------------------|---------------------|
| Date of Measurement | 21/02/2022          |
| Test Method         | GLPL/SOP/AA/17:2014 |

| Sr. No.         | LOCATION                   | NOISE LEVEL dB (A)     |                          |
|-----------------|----------------------------|------------------------|--------------------------|
|                 |                            | DAY TIME<br>11:35 HRS. | NIGHT TIME<br>22:55 HRS. |
| 01              | Near Methanol Gate Area    | 61.7                   | 57.9                     |
| 02              | Near IPA gate Area         | 73.8                   | 68.8                     |
| 03              | Near WNA III Area          | 74.2                   | 69.0                     |
| 04              | Near GT – II Area          | 73.8                   | 68.5                     |
| 05              | Near Utility Area          | 74.0                   | 69.2                     |
| 06              | Near Time Office Area      | 60.7                   | 55.9                     |
| 07              | Near Store Area            | 57.3                   | 56.2                     |
| 08              | Near Acid Tank Area        | 67.6                   | 57.6                     |
| 09              | K-6 Plant – Near Main Gate | 60.9                   | 53.9                     |
| M.P.C.B. LIMITS |                            | 75.0                   | 70.0                     |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST REPORT

Doc.No : GLPL/QF/7.8/04

|                           |   |                     |            |
|---------------------------|---|---------------------|------------|
| Test Report No.           | GA/22/03/419  | Test Report Date    | 30/03/2022 |
| Customer Name and Address | M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD.<br>PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA,<br>TALUKA – PANVEL, DIST. – RAIGAD. |                     |            |
| P.O. No. / Date           | 1100007464 / 24-08-21   | Page No.            | 1 of 1     |
| Sampling Plan             | GLPL/QF/7.3/06  | Measurement Done By | GLPL       |

### AMBIENT NOISE LEVEL MEASUREMENT :

|                     |                     |
|---------------------|---------------------|
| Date of Measurement | 22/03/2022          |
| Test Method         | GLPL/SOP/AA/17:2014 |

| Sr. No.         | LOCATION                   | NOISE LEVEL dB (A)     |                          |
|-----------------|----------------------------|------------------------|--------------------------|
|                 |                            | DAY TIME<br>12:55 HRS. | NIGHT TIME<br>22:40 HRS. |
| 01              | Near Methanol Gate Area    | 61.7                   | 56.8                     |
| 02              | Near IPA gate Area         | 74.0                   | 69.0                     |
| 03              | Near WNA III Area          | 74.2                   | 69.2                     |
| 04              | Near GT – II Area          | 73.8                   | 68.7                     |
| 05              | Near Utility Area          | 74.3                   | 69.5                     |
| 06              | Near Time Office Area      | 59.6                   | 56.8                     |
| 07              | Near Store Area            | 57.2                   | 54.9                     |
| 08              | Near Acid Tank Area        | 69.6                   | 57.3                     |
| 09              | K-6 Plant – Near Main Gate | 54.2                   | 43.9                     |
| M.P.C.B. LIMITS |                            | 75.0                   | 70.0                     |

End

For GADARK LAB PVT. LTD.

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**

**CHECKED BY**

**Note :**

1. The results relate only to the samples tested.
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## **Annexure 4: CSR Report**



## Deepak Fertilizers and Petrochemicals Corporation Ltd, Taloja And Smartchem Technologies Limited CSR Report 2021-22

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### OUR PHILOSOPHY

*‘Give a man a fish and you feed him for a day; teach a man to fish and you feed him for a lifetime’.* Inspired by this old saying DFPCL and STL foremost objective is to implement initiatives that empower beneficiaries by equipping them with employable skills that generate sustainable livelihoods, as opposed to merely providing them with material and financial aid. DFPCL and STL strives to give wings to the hopes and dreams of the marginalised; helps them to develop skills and nurture aspirations which enable self-sufficiency and socio-economic upliftment. For DFPCL and STL, our beneficiary’s success is our success; when they rise, so do we.

### VISION

To act as an elective catalyst in creating self-reliant and respectable societies, with secure and sustained means of livelihood, through employable skills and resource support and additionally, to promote and support the rich cultural heritage of India.

### MISSION

Since its inception, IsFon has been consistently committed to:

- Identifying and filling gaps in the economy and in the social support systems
- Imparting vocational and so its skills to enhance employability
- Facilitating income generation and self-employment programmes
- Providing marketing and financial support to the beneficiaries
- Promoting initiatives for the development of communities and self-help groups
- Initiating preventive and corrective healthcare facilities
- Enhancing the skills of farmers
- Undertaking soil, nutrient, agri-input and produce enhancement initiatives for farmers
- Supporting performance arts, talent and cultural richness among local communities
- Extending crisis support in times of unexpected calamities and disasters.

### INTRODUCTION:

As a true corporate citizen, DFPCL and STL are committed to social thought and action and is resolute in its dedication to serve the society they live in. The Company has been engaged in community work through *“Ishanya Foundation (IsFon)”* at Taloja, and Pune in Maharashtra and Dahej in Gujarat.

The CSR Arm of Deepak Fertilisers and Petrochemicals Corporation Limited, Pune (DFPCL) and Smartchem Technologies Limited, *Ishanya Foundation (ISFON)* is a registered NGO under the provision of the *Bombay Public Trust Act 1950*.

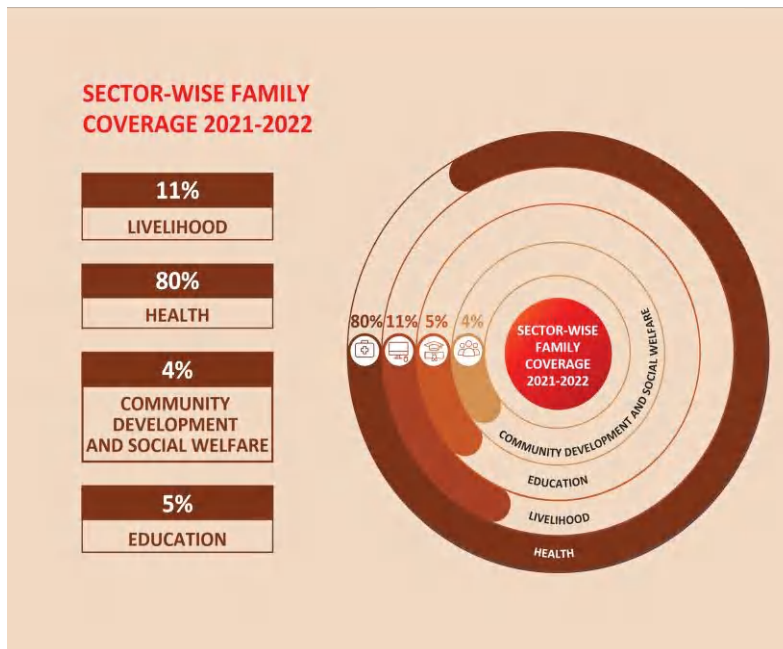
DFPCL and STL have always considered its surrounding communities as an important group of stakeholders in its business and is committed to contribute towards improving their quality of life through various measures. Projects being implemented in 47 villages and 19 hamlets in and

around Taloja MIDC and urban area of Pune of Maharashtra state and 2 villages from Dahej from Gujrat State.

## OVERVIEW OF INITIATIVES

In 2021-22, through IsFon has positively impacted the lives of 26,516 beneficiaries through a number of rural and urban initiatives for health, education and sustainable livelihoods. For urban communities, we continue to implement initiatives aimed primarily at enhancing employability and income. These include Vocational Skill Development Project (VSDP), Livelihood Enhancement through Entrepreneurship Development Project (LEED) like Muskaan, Income Generation Project (IGP), Yellow Ribbon NGO &

Arsans Fair (YRNF), entrepreneurship Development and Aarogyam. Rural communities extend to benefit from our Wadi, Dairy Development Project (DDP), Aarogyam, Gyanam, Community Development & Social Welfare, Entrepreneurship Development and Vocational Skills Development Project (VSDP). Through these initiatives, IsFon's dedicated team has helped small & marginalized farmers, women and youth fight poverty, combat health issues and find sustainable livelihoods.



| Sr. No | Name of Project                 | Major Activities  | Rural  | Urban | Total Beneficiaries' Covered |
|--------|---------------------------------|---|--------|-------|------------------------------|
| 1      | Dairy Development Project (DDP) | Crossbreed Cow, Artificial Insemination, Pregnancy Diagnosis, Vaccination, Fodder Development, Training   | 276    | -     | 276                          |
| 2      | Wadi                            | Mango Plantation, Soil & Water Conservation, Water Resource Development & Conveyance, Vegetables Cultivation, Development of Model / Trail Plots and Effective Water Use, Nursery development & Capacity Building | 395    | -     | 395                          |
| 3      | Aarogyam                        | Mobile Clinic, Eye Camp, Cataract Surgery, Spectacle Distribution, HealthAwareness Camp, Pathology  | 20,175 | 932   | 21,107                       |

|                            |  |  |              |             |              |
|----------------------------|--|--|--------------|-------------|--------------|
|                            |  | Service, Masks, Ambulance, Oxygen Plant, Oxygen Concentrator, Covid Kit, Support for Medicine, COVID Vaccination Drive |              |             |              |
| 4                          | Community Development & Social Welfare (CDSW)                      | Garden Development, Water Filter, Food Kit during Pandemic, Donation of chairs   | 1,129        | -           | 1,129        |
| 5                          | Vocational Skills Development Project (VSDP)                       | Job Oriented Vocational Courses with Spoken English & Personality Development, Sponsorship of Course Fees, Placements  | 38           | 282         | 320          |
| 6                          | Livelihood Enhancement through Entrepreneurship Development (LEED) | Income Generation Programme, Muskaan, Entrepreneurship Development, Yellow Ribbon NGO & Artisans Fair                  | 31           | 1,835       | 1,866        |
| 7                          | Gyanam   | Digital Classroom, Infrastructure Development, Lab Equipment, Sports Kit, Teacher Appointment                          | 1,423        | -           | 1,423        |
| <b>Total Beneficiaries</b> |  |  | <b>23467</b> | <b>3049</b> | <b>26516</b> |

## 1. VOCATIONAL SKILL DEVELOPMENT PROJECT (VSDP)

### URBAN INITIATIVES

IsFon believes that with quality training and placement support, underprivileged women and youth from marginalized communities can find better opportunities for employment, and gradually lead their families out of poverty.

Women being the driving force of such families, it was imperative we help them learn the skills to livelihood. In doing so, we not only help put food on the table, we foster self-reliance, install pride and build confidence that impacts their families and the community.

**TOTAL 282 aspirants were trained in various job oriented vocational courses.**

#### Objectives:

- To provide vocational training as per the market demand to girls, women, youth and school dropouts from financially challenged communities.
- To provide employable skills to the beneficiaries to lead a sustainable livelihood.
- To provide soft skills training in Personality Development and Spoken English to aspirants who undergo the vocational training, for their overall development and employability.
- To provide sponsorship of course fees to needy students

#### Activities:

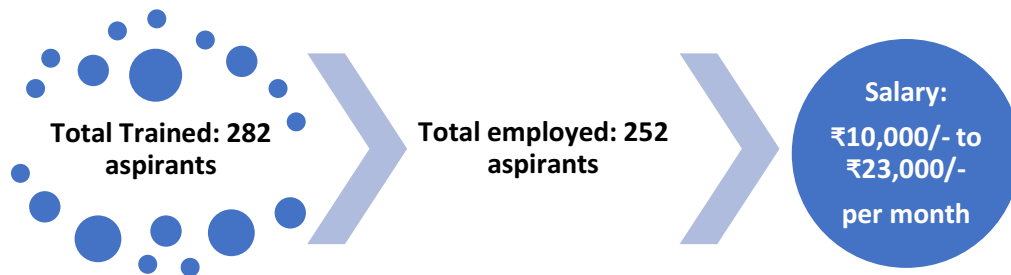
- Identification and market research for employable skills which are in demand

- Community Mobilization & Awareness Campaign in the slum communities
- Selection, screening and counseling of beneficiaries & their families
- Design and development of training modules and schedules
- So, its Skills training
- One on one Mentoring and counseling
- Inclusion of guest lectures by experts from various fields to share their expertise with the beneficiaries
- Financial inclusion like health insurance and linkage with the banks
- Monitoring of the various courses as per the schedule and the syllabus
- Evaluation, Assessment, Testing and Certification
- Advocacy with industry for placement
- Tracking of beneficiaries post-employment

*Beautician Course being conducted at IsFon*



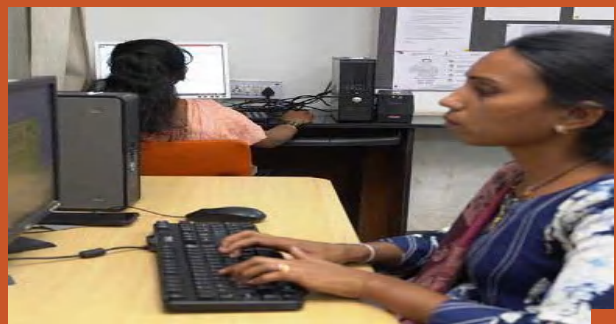
*Certificate Course in Information Technology in progress at IsFon*



*Beautician Course being conducted at IsFon*



*Certificate Course in Information Technology in progress at IsFon*



## VSDP SUCCESS STORIES



### **Ms. Pooja Shivaji Yede**

**Support:** Sponsorship given for Post Basic B.Sc. Nursing from Symbiosis College of Nursing

**Placement:** Staff Nurse at D.Y. Patil Hospital, Pune

**Salary:** ₹ 22,000/- per month

Pooja's father is a construction worker earning a meagre ₹ 60,000/- per year while her mother is a housewife. They live together in their own kaccha house. Pooja completed her GNM and worked for one year at City Care Hospital but always had the dream for pursuing Post Basic B.Sc. Nursing which she was able to do through a scholarship from Ishanya Foundation. Today, Pooja is a qualified staff nurse at D. Y. Patil Hospital earning ₹ 22,000/- per month.



### **Mr. Jaydeep Lokare**

**Support:** Sponsorship given for Assistant Operator Course  
**Placement:** Trainee at Motherson Automotive Technologies in Chakan, Pune

**Salary:** ₹ 14,500/- per month

Jaydeep is from Phulawade, Ambegaon, Pune - a tribal area. His father is the only earning member in his family.

After completing an 'Assistant Operator Course' sponsored by IsFon, Jaydeep got a job as 'Trainee' with Motherson Automotive

Technologies in Chakan, Pune and draws a salary of ₹ 14,500/- pm. This has given him confidence and a positive approach to life.

He says that due to his job, he has seen a complete change in the outlook of his family; his father is happier and more relaxed. He is very thankful to IsFon and is eager to share his experience with his friends.

## VSDP (RURAL)

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



32

- Tailoring Course Beneficiaries

6

- for B.Sc. Optometry at Laxmi College of Optometry

### VSDP SUCCESS STORIES (Rural)



**Mrs. Sonam Baban Pardhi Support:** Basic tailoring course  
**Earning:** ₹ 6,000/- per month

Sonam is 18 years old staying with four other members in her family. Her father is the only earning member and is working at Taloja MIDC at a modest salary. Sonam wanted to support her family financially. She came to know about IsFon's tailoring course and enrolled for it. The course helped her gain confidence to hone her stitching skills and find the courage to start her own enterprise of stitching fashionable saree blouses. Now she is earning ₹ 6,000/- per month



**Mrs. Aarti Subhash Bhoir**  
**Support:** Sponsorship of fees for Diploma in Optometry  
**Earning:** ₹15,000/- per month

Aarti's family consists of two sisters, one brother and mother who is a house wife. Her family was going through a difficult time. Yet, Aarti had a keen desire to study. In 2014, she took admission for Diploma in Optometry in Panvel.

Due to financial constraints, she approached Ishanya Foundation for help. IsFon provided the much-needed financial support under the Vocational Skills Development Project. After completing her course, she is now working as an Optometrist in Sunshine Eye Care Hospital, in Khopoli which is a great help to her family

## 2. LIVELIHOOD ENHANCEMENT THROUGH ENTREPRENEURSHIP DEVELOPMENT (LEED)

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

### i) Income Generation Programme (IGP)

The Income Generation Programme supports more than 75 women from the marginalized communities in Pune and two NGOs namely Anubhav Foundation and Seva Sahayog Foundation. Beautiful handmade cloth products like git envelopes, gifting bags, thali covers, table mats, saree covers, jewelry pouches, etc. are carefully designed by experts and make perfect gifting options. Women who already have basic stitching skills using a sewing machine are trained to make various gifting products. After a thorough quality control check, the beneficiaries are trained to stitch them. This new enhanced skill set helps to earn a secondary source of income.

|              |                         |
|--------------|-------------------------|
| ₹ 3,25,906/- | Income earned by ladies |
| ₹ 7,97,418/- | Sale of products        |

### ii) Muskan

Based on the principle of 'Reuse & Recycle', this is a unique initiative empowering financially challenged women fondly called 'Muskaan Parees'. The Parees are from marginalized communities, between 25 to 50 years of age, and have missed out on education.

Resource Recycle Centre as well as ladies from various walks of life from Pune and Mumbai graciously support the initiative by collecting pre-owned garments and accessories, which are thoroughly checked for quality and usability. These are then sold by the Parees enabling them, to earn an additional income and attain more financial stability.

It also benefits the customers since the items are sold at a very nominal price.

The unsold garments are collected by Swachh under its V-Collect initiative for recycling.

|                                 |   |               |
|---------------------------------|---|---------------|
| ₹ 1,47,710/-                    | ₹ 3,585/-                               | 1,282/-       |
| Total value of sale of garments | Sale of other items through Credit Kart | Beneficiaries |

### iii) Yellow Ribbon NGO & Artisans Fair (YRNF)

- The Yellow Ribbon NGO & Artisans Fair is an annual pre-Diwali event which was organized from 8<sup>th</sup> to 11<sup>th</sup> October 2021 at Creativity, Pune. It is a unique platform that brings the collective work of NGOs, artisans, farmers, social enterprises and SHGs from across India providing them with a platform to reach out to their stakeholders be it – individuals, corporate and government bodies.
- The YRNF provides its participants to showcase and sell the products made as part of their income generation activities. True to its motto "achchi kharidari, accha karma", the event also generates awareness about the work they do and the various causes they support such as livelihood, health, women empowerment, education, environment and social welfare.
- The foundation makes git hampers which includes products made by some of the participants. The sale of these hampers also helps in sale and exposure of their products.
- This year's participants came from across Maharashtra, Himachal Pradesh, and Rajasthan.

They exhibited and sold products ranging from sweets, gifting articles, Diya's, dry fruits, candles, flower vases, organic cereals & pulses, traditional Indian woven sarees and dress material and much more.

|                                  |  |
|----------------------------------|--|
| 39                               | Total Participating Organizations                              |
| ₹ 10,46,900                      | Total Sale   |
| Give hamper Sale<br>₹ 1,37,500/- | 55 Hamper bags benefiting 8 NGOs,<br>SHGs and Farmer producers |





#### iv) Entrepreneurship Development (Urban & Rural)

For many who live on the fringes of society, to start their own business or expand an existing one, is a difficult dream. They struggle with poor entrepreneurial capabilities, unavailability of information and access to markets as well as lack of finances to purchase related necessary equipment.

Our Entrepreneurship Development initiative supports them to make their dreams come true. The programme seeks to enhance skills and knowledge to empower self-employment and run small businesses through various initiatives.

Our contribution included:

| Urban  |           | Rural                      |           |
|--|-----------|----------------------------|-----------|
| Hand Cart  | 27        | Photoshop Set              | 01        |
| Tiffin Kit   | 10        | Welding Shop Set           | 01        |
| Plumbing Kit   | 01        | Beauty Parlor Kit          | 02        |
| Colour Inkjet Printer  | 02        | Electrician Kit            | 02        |
| Food Processor, Industrial Mixer, Plastic Bottles Sealing Machine, Weighing Machine, Mannequin | 20        | Catering Set               | 01        |
|  |           | Painting Kit               | 01        |
|  |           | Tapari                     | 03        |
|  |           | Barber Tool Kit            | 04        |
| Food Dryer with 12 Trays   | 10        | Handcarts                  | 09        |
| Welding & Drilling Machine with Cable  | 03        | Sewing Machine             | 05        |
| Industrial Sewing Machine  | 01        | Flour Mill                 | 02        |
| <b>Total Beneficiaries</b>   | <b>74</b> | <b>Total Beneficiaries</b> | <b>31</b> |



## SUCCESS STORIES (RURAL)



### **Mr. Deepak Shantaram Pardi, Barber Shop Earning ₹ 350/- per day**

Deepak has his own barber shop at Bhalyachiwadi village in Panvel. Earlier he had an old style wooden chair for his customers. Besides, his shop was not equipped with latest trimmer and massage machine. As a result the youngsters used to go to other surrounding villages for an haircut and

After IsFon's intervention, his shop was equipped with a proper barber chair, a good trimmer and massage machine. This change helped him to add young customers from his village and increased his daily income from ₹ 150/- to ₹ 350/- per day.



### **Mrs. Nikita Nisikat Jage, Handcart Earning ₹ 500/- per day**

Nikita is 37 years old and has a son and a daughter. She belongs to an economically weaker section and is the only earning member in the family. Earlier she had a tough time meeting her family needs. She wanted to do something to provide financial support to her family.

She used to prepare snacks on a small table in front of her house in Chindran village in Panvel and sell them to customers.

During monsoons and summer, it was difficult for her to sell as the food items were in the open. Nikita approached IsFon and requested for a handcart under its Entrepreneurship Development Program. IsFon provided support in purchasing a handcart. As a result, she is now mobile and sells her food items in two places in the village. Besides, even during monsoons and summer her business is not affected. Nikita says she is happy because her income has increased from ₹ 200/- to ₹ 500/- per day and is indebted to IsFon's timely help.





# RURAL INITIATIVES

- Wadi Project
- Dairy Development Project (DDP)
- Community Development & Social Welfare (CDSW)
- Aarogyam (Urban and Rural)
- Gyanam

## WADI PROJECT

Under this initiative, the small and marginalized farming families are given access to integrated farming tools and techniques for intensive land development. They are also provided expert guidance in new techniques, commercial farming and market linkages.

Selected with due diligence based on set criteria, the farmers are given support to establish a half-acre Kesarmango orchard with 30 trees. IsFon assists with almost every aspect of the orchard - from water resource development, lifting devices, farm tools, plant nutrition and protection.

### Support given on 0.5-acre land:

- Establish mango orchard - Kesarvariety
- Fertilizer
- Pesticide
- Farm Tools
- Vegetable seeds
- Water pumps & pipes
- IPM & INM techniques
- Development of eroded wasteland through soil and water conservation
- Cultivation of vegetables
- Development of Model/Trial Plots

|   |  |
|---|--|
| Total no. of mango trees planted                      | 11,460   |
| Survival rate   | 85.31%   |
| Acres   | 191.50   |
| Families covered                                      | 380 Wadi + 10 WRD support + 5 Nursery = 395  |
| Villages & hamlets covered                            | 18   |
| Total income from vegetable sales                     | 71.04 lakh (257 farmers)   |
| Number of farmers cultivating vegetables on their own | 380  |
| Nursery developed                                     | Vegetable saplings - 05 (14,666 vegetable seedlings), Mango - 08 (4,286 grafts), Jasmine - 01 (1,282 saplings) |
| Demonstration of new plots                            | 19 (Jasmine - 5, Marigold - 3, Ginger - 2, Cherry Tomato - 3, Turmeric - 3, SweetCorn - 2, Baby Corn - 1)      |
| Aspirants' meetings                                   | 106  |



## SUCCESS STORIES:

### WADI PROJECT

Case study-2021-22



ISHANYA  
FOUNDATION

52

Project: Wadi Project

Year of Participation: 2014

**Name of Aspirant:** Mrs. Nami Soma, Mr. Soma Navshya Pardhi

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

**Family Profile** : Tribal Family

Mrs. Nami and Mr. Soma have two sons. Elder Son Sharad is studying in 2<sup>nd</sup> Year Fitter course (ITI) and Second Arun is in 10<sup>th</sup> class. Arun and Sharad also helping to mother and father in the farm work. Before wadi plantation land was uncultivable and not getting income from the same piece of land. After wadi plantation he started getting additional income from mango fruits. Livelihood of the family is dependent on Agriculture and allied activity.

**Land:** 1 Acre



| Mango                 | 18 no. of fruiting plants            | 14 Kg. Home consumption                            | 103 Kg. sold in the market                  | 117 total yield in Kg.           | 23,500 |
|-----------------------|--------------------------------------|--|---|----------------------------------|--------|
| Vegetable Cultivation | Sponge Gourd- 10 R<br>Cucumber- 10 R | Total Production Kg- 780 Kg + 820 Kg respectively. | Av Rate: 35Rs./Kg & 16 Rs./Kg. respectively | Income: 27300+13120 respectively | 40,420 |

**Name of Aspirant:** Mrs. Jayshree Sajjan, Mr. Sajjan Govardhan Pawar

**Village:** Kanpoli, **Tal:** Panvel, **Dist.:** Raigad

Sajjan and Jayshree have a daughter studying in 8th class and son in 6th class. The daughter helps them in the farm work during vacations. Agriculture is their main source of income. After training and seed support, Jayshree and Sajjan started floriculture farming and changed their cropping pattern. Due to this intervention, they got more income other than what they earned through the regular crops. Hence, they decided to continue floriculture farming and are encouraging other farmers for floriculture.



| Plantation Year (Marigold Flowers) | Cultivated Area@R | Self-consumption quantity (Kg) | Sold quantity in Kg | Avg. rate of flowers per KG. (Rs.) | Total Income |
|------------------------------------|-------------------|--------------------------------|---------------------|------------------------------------|--------------|
| 2021-2022                          | 05                | 5.5                            | 335.5               | Rs.60/-                            | Rs.20130/-   |



## SNAPSHOTS OF SUCCESS





## DAIRY DEVELOPMENT PROJECT (DDP)

For small, marginalized, landless farmers and labourers, the DDP aims to build and enhance dairy farming productivity. Based on set criteria, aspirants are selected with due diligence and provided assistance to start and improve dairy farming. These small dairy farmers can earn ₹ 8000/- to ₹ 12,000/- per month through the sale of milk and cow dung.

- Eligible women of farmer's households are supported with cross breed cow
- Assistance in the development of fodder plots
- Doorstep services of vaccination, artificial insemination followed by pregnancy diagnosis of cows and buffaloes
- Support of market linkage for selling milk

|  |   |
|--|---|
| Total milk produced                            | 4,62,970 Ltr  |
| Milk consumed at home                          | 1,00,005 Ltr  |
| Milk consumed by calf                          | 69,615 Ltr  |
| Milk sold in the market                        | 2,93,350 Ltr  |
| Additional Income through sale of milk         | ₹ 1,14,92,010/-   |
| Cow dung produced                              | 99.55 MT  |
| Artificial Insemination + Sorted Semen AI-     | 837   |
| Pregnancy Diagnosis (PD)<br>(Jan-20 to Dec-20) | 905 Confirm Pregnancy Diagnosis<br>(CPD) - 399, Empty - 76; Repeat - 411;<br>Pending - 19 = 905<br>Conception Rate - 45.03% |
| Calving  | 281 (Male - 129, Female - 152)  |





## SUCCESS STORIES:

### Dairy Development Project

#### Case Study



**ISHANYA**  
FOUNDATION

Year of Participation : 2013-14, 2021-22

**Name of Participant :** Mrs. Mayura Mahesh Kambale, Mr. Mahesh Rama Kambale

**Village :** Nere. Taluka: Panvel . District : Raigad

**Family Profile :** Mrs Mayura and Mahesh have 1 son Dipesh- age 26-12<sup>th</sup> pass, presently doing private job as per availability at nearby places and after job he is helping to father in the dairy work. Mr. Mahesh is Marginal landholder farmer. Earlier livelihood of family was dependent on only agriculture. Income from agriculture was not sufficient, so facing difficulties to complete education of children and full fill the family needs. After Ishanya Foundation intervention family started getting good Additional Income from Dairy Business. Now the Dairy Business is become main source of Income for the family.

**Land: 10 R**



| Support Given  | Asset Created  | Total milk During FY 2021-21 | Sold out Milk                         | Average Rate/lit | Annual Income |
|--|--|------------------------------|---------------------------------------|------------------|---------------|
| 02 Cows; B- 8 & B-55<br>Medicine Kit; Training; Exposure | 1 <sup>st</sup> calf 6 year: Milking<br>2 <sup>nd</sup> Calf 3 Year: Ready for Insemination<br>1 Male calf (2 Month age)<br><b>Total Asset of Rs-75000/-</b> | 1530 lit                     | 1030 lit<br>Sale of milk at Household | Rs.40            | Rs.41200/-    |

### Dairy Development Project

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## Fodder Development:

Fodder development is crucial to the running of a dairy enterprise. IsFon's experts know that green fodder is a cost-efficient initiative for the farmer's livestock, yet its availability is insufficient. With the limited land under fodder cultivation, dairy farmers need to focus on improving productivity of fodder crops. To increase the profit of the dairy enterprise, IsFon supported cultivation of Azolla, Maize and Napier Grass.

|                               |     |
|-------------------------------|-----|
| Azolla                        | 10  |
| Napier Grass                  | 10  |
| Calf Grower Feed Distribution | 100 |
| Maize Seed Distribution       | 100 |



## COMMUNITY DEVELOPMENT AND SOCIAL WELFARE (CDSW)

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

**Key activities this year included:**

| ACTIVITY   | QTY       | REMARKS   |
|--|-----------|---|
| Distribution of Grocery kit to slums in Andheri  | 250 nos.  | 4 kg rice, 4 kg wheat, 2 kg sugar, 2 kg tur dal & 2 lt soyabean oil |
| Donation of water purifier in Rahiyad village, Dahej                                     | 450 nos.  | Distribution of water purifiers                                     |
| Installation of children's playing equipment in public gardens at Rahiyad & Suva village | 2 nos.    | Children from 419 families benefited                                |
| Donation of furniture to Marine Police Station, Dahej                                    | 10 chairs | For visitors & staff  |

*Distribution of water purifiers*



*Grocery kit distribution*



*Donation of equipments for Children's play area*



## AAROGYAM (URBAN AND RURAL)

Health is a major focus for IsFon. Ignorance and poor nutrition are part and parcel of life in slums and in marginalized rural and tribal communities. Poverty makes things worse as the afflicted people cannot afford the cost of medical checkups and treatment.

For vulnerable populations in and around Pune city, and in the villages of Taloja MIDC, IsFon provides preventive health care services aimed at improving health and thereby the quality of life as well. Through health awareness programmes, proactive diagnosis and care, IsFon aims to:

- Assess and diagnose the health needs of individuals, families and communities
- Provide qualitative, preventive and curative health care to the community
- Provide doorstep healthcare services through Mobile Clinic
- Increase the focus on health promotion and prevention, screening and early intervention
- Improve access to health care services
- Reduce medical expenses through early detection of diseases of the needy

### Key activities

IsFon started a collection Centre for pathological investigations at its office through a tie-up with N. M. Medicals. It serves as a convenient collection Centre for patients to avail pathological services at very nominal costs. All pathological investigations are covered under this initiative.

During the year, the facility was publicized via social media campaigns, and awareness drives were also carried out through doctors and other individuals.

Under Aarogyam, IsFon also went all out to render aid and assistance during the pandemic that paralyzed India and negatively impacted so many. Masks for health workers, ambulances for emergencies, hand sanitizers, PPE kits and food packets were donated in huge numbers, while our mobile clinic service provided aid to numerous patients in and around villages near Pale, Taloja.

21,107 (Urban – 932 Rural – 20,175)      Patents covered



## ACTIVITIES CARRIED OUT DURING PANDEMIC

| Activity   | Quantity           | Collaborations  |
|--|--------------------|---|
| Donation of Ambulance  | 3 nos.             | <ul style="list-style-type: none"> <li>Swami Ramanand Teerth Rural (SRTR) Govt. Medical College &amp; Hospital, Ambajogai, Beed</li> <li>JIIU Indian Institute of Medical Science, Warudi, Badnapur, Dist. Jalna</li> <li>Panvel Municipal Corporation</li> </ul>   |
| installation of Oxygen Generator Plant                             | 4 Nos.             | <ul style="list-style-type: none"> <li>Shree Sardar Patel Jalalpore area, Tashkandnagar, Navsari, Gujrat</li> <li>Sub District Hospital, Trimbakeshwar, Nashik, Maharashtra</li> <li>Shri Shaneshwar Rural Charitable Hospital Shani Shingnapur, Tal. Newasa, Dist. Ahmednagar, Maharashtra</li> <li>Meltron Hospital, Aurangabad Municipal Corporation, Maharashtra</li> </ul> |
| Donation of Oxygen Concentrator                                    | 5 Nos.             | <ul style="list-style-type: none"> <li>Mumbai Municipal Corporation</li> </ul>  |
| Distribution of COVID Kit at Nearby Villages of Taloja Plant       | 2800 Nos. Families | <ul style="list-style-type: none"> <li>One kit contains 500 ml sanitizer, 4 masks covering 9 villages around Taloja MIDC</li> </ul>   |
| Distribution of Hand Sanitizer                                     | 1000 liter         | <ul style="list-style-type: none"> <li>Health Department (Govt. of Maharashtra)</li> <li>Police Stations – Taloja, MIDC</li> <li>Other Govt. offices</li> </ul>   |
| Vaccination for COVID  | 360 Nos.           | <ul style="list-style-type: none"> <li>VAXALL</li> <li>Sanchet, Jehangir, KEM and Usha Nursing Home</li> </ul>  |
| Awareness session for registration in CoWin App & Pranayam session | 62 Nos.            | <ul style="list-style-type: none"> <li>Conducted virtually by IsFon</li> </ul>  |



## ACTIVITIES CARRIED OUT DURING PANDEMIC



## GYANAM

The two-pronged goal comprises of:

- Creating a better school learning environment through various interventions
- Improving the overall quality of education

| Activity  | Quantity | Collaborations  |
|---|----------|---|
| Construction of Aanganwadi Classroom  | 01 Nos.  | <ul style="list-style-type: none"> <li>• Pale Khurd, Panvel</li> <li>• Benefiting 50 children</li> </ul>  |
| Setting up of digital class for Raigad Zilla Parishad schools                           | 10 nos.  | <ul style="list-style-type: none"> <li>• Devichapada – 4, Padghe – 4, Dongryachapada – 2</li> <li>• Conducted training of teachers to make them digital friendly</li> <li>• Benefiting 606 students</li> </ul>      |
| Providing Science Laboratory Equipment & Printer  | 01 nos.  | <ul style="list-style-type: none"> <li>• Madhymic Vidhyalay Chindran</li> <li>• Benefiting 175 student</li> </ul>   |
| Provided Sports Kit to RZP School, Chindran   | 01 nos.  | <ul style="list-style-type: none"> <li>• Benefiting 290 student</li> </ul>  |
| Appointment of Special Subject Teacher at Rahiyad Secondary and Higher Secondary school | 01 nos.  | <ul style="list-style-type: none"> <li>• Appointed Special teachers for</li> <li>• Class 11 and 12 for Commerce subject for improving the learning out come</li> <li>• Benefiting 37 students</li> </ul>            |
| Infrastructure development in Rahiyad Primary Schools (Roof Sheet, etc.)                | 01 nos.  | <ul style="list-style-type: none"> <li>• Iron Roof Sheet installation in Rahiyad Primary school. This facility accommodates 265 school children for school activities</li> <li>• Benefiting 265 students</li> </ul> |
| Arrange Safety Training programme under CSR-activity at Rahiyad Primary School          | 02 nos.  | <ul style="list-style-type: none"> <li>• Organized awareness programme on Home Safety for Class 6 to 8 Primary School students and Class 9 to 12 Secondary School students</li> </ul>                               |





Fem

**PARUL MEHTA**

**Founder And Trustee, Ishanya Foundation**

**WHY SHE MAKES OUR LIST:**

She is dedicated to empowering women and uplifting the underprivileged by teaching them skillsets to become financially independent.

For as long as she can remember, Parul Mehta has always wanted to give back to society. She terms it a 'value' she grew up with, indulging in social services when she was a part of the student council body in her college years. Once when an old, poor lady showed gratitude on her for helping her get a cataract operation done for free, Mehta realised that a trivial aid could massively impact a needy person's life. She thus decided her life path – to dedicate her life for the betterment of the underprivileged. Completing an Authentic Leadership Development programme from Harvard Business School in 2014 and a BA in Sitar, Mehta, upon her return to India, visited NGOs in and around Pune to understand the sectors that were being catered to. Over time, she realised that donating is not the way forward, empowering is. "It's easy to give a cheque or a donation, but we should work towards making the underprivileged independent. If you teach them a skill, you are educating them for a better life," she says. Thus was



born Ishanya Foundation, Pune.

The foundation conducts outreach programmes for women empowerment, for livelihood, health and education, in and around Pune, and also in villages around Talaja in Raigad district. The foundation also teaches women soft skills. Furthermore, farmers and their wives are also helped at the same time. Mentorship programmes are also run where individuals who rise in skills and become financially independent, teach the others.

# Pune Mirror

## Wrapped into bags

Shubhada Phadke recycles foil wrappers to create attractive handbags after a friend in Australia introduced her to this intricate art

**Ballenger Miller**

1980年：1980年：1980年

**A** lot of folks are thinking Christmas is over and reflecting with the emotions of Minnesota's Christmas legend by the music to create the atmosphere and make yourself cheerier with at least one aspect of your tradition. Nashville's professional singers AAAAAT! the beautiful and yet somewhat art of turning old forgotten into powerful ballads. Having sung more than 10,000 songs over the years, the artist has taught over 250,000 people how to sing their heart out. The artist is a member of the Nashville Songwriters Association and has a

After finishing his self-criticism and giving a description of where the peasants' work had improved and what had not, this speaker said more eloquently than ever: "After 40 years of working in these fields, I realize that there is much to be learned from the peasants. I will continue to learn from them and I will continue to improve the process of working with them. I will continue to learn from them and I will continue to improve the process of working with them."



world's literature. All of these have been done by simply collecting the wrong words, which is the only way to make a bad library in a corner of a garbage can," Thakur registered.

Reference and research have been given every step of the way and the process is now being refined but also requires a lot of production, even to make the simplest or cheapest activity. A 100 per cent local made and it is not every day that it is a good, as it simply depends on the kind of

"It is a very basic cooking process and involves throwing of the wingtips, cutting long straight equal pieces, soaking them and then roasting them just one or two at a time until it is browned. The interesting part of all these steps from both sides is that a single shell can be roasted in under 10 minutes and you should be able to eat them while it's still hot," Phillips said.

Then, after the roasting, he presented a deliciously hot liquid that he said is a great way to do just a little bit for the convenience, Phillips touched.

## Shop till you drop

Artisans from across the country bring you some of their finest work as the festive season sets in

[illegible]

# Agrowon News

‘महाधन’ तर्फे बदनापूर येथील रुग्णालयाला रुग्णवाहिका भेट

**पुणे :** कोरोना संक्रमण काळात प्राणीय भागातील स्थानां येणाऱ्या अडबडीतों दखल घेता महाधन क्षेत्रांतर्गत रासायनिक द्रव उत्पादन करणारी अग्रगण्य कंपनी दीपक फार्मास्युटिकल्सने एक वैद्यकीयकालीन कारपोरेशन लिमिटेडतर्फे सामाजिक बांधिलकीच्या भावनेतून चंद्रापूर (वि.ज.ल.) येथील अखिल भारतीय आयुर्विज्ञान संस्थेद्वारे संस्थेतील नव्या स्थळाच्या एक अग्रगण्य स्थळावरील वैद्यकीय स्थळात देण्यात आले.

कंपनीचे कार्यकारी उपाध्यक्ष नरेश देशमुख यांना या उपक्रमासाठी पुढाकार घेतला होता. दीपक फर्टिलायझर्सची १०० टक्के सार्वजनिक मालकी असलेली स्मार्टिकम टेक्नॉलॉजीज लिमिटेड या सहायक कंपनीची महाधन खोले

लोकप्रिय अहेत, या कंपनीचा वारा रण्यांमध्ये विस्तार असून सुमारे १५,००० च्या व विक्रेते आहेत. विभागांय कृषी सहसंचालक डॉ.एल.बाबय यांच्या हस्ते ही रणवाहिका सुरू झाल्याचे अधिष्ठाता डॉ. अजय सिद्दीकी यांच्याकडे सुमूर्द करण्यात आले. यावेळी महाधन कंपनीचे महाव्यवस्थापक हर्गमंतराव भिसे, सहायक महाव्यवस्थापक प्रमोद गिरेतुंबे, वरिष्ठ व्यवस्थापक आदाम शाह, मोहरी चोडवडे, प्रकाश गुंजाळ तसेच झिन्कोतील महाधन खत विक्रेते उपस्थित होते.

महाधन कंपनीतर्फे अंबाजोगाई येथील स्वामी रामानंदतीर्थ प्रामोण शास्त्रीय वैद्यकीय महाविद्यालयास एक रुग्णवाहिका तसेच औंगाबाद, नाशिक व नगर येथील शास्त्रीय



बदनापूर, जि. जालना : 'महाधन' तर्फे नूर रुग्णालयास एक अद्यावत रुग्णवाहिका भेट देताना मान्यवर.

कोविड केंद्राला ऑक्सिजन निर्मिती संयंत्राची देणगी स्वरूपात भेट देण्यात आल्याचे कंपनीतर्फे कळविण्यात आले आहे.

प्रजासत्ताकदिनी वाडीधारकांना  
मिळाले जलउपसा सिंचन साहित्य

[illegible]

**Divya Bhaskar**

દિપક ફટિલાઈઝર્સ કંપનીએ રહિયાદ પ્રાથમિક શાળામાં પતરા બેસાડવામાં આવ્યાં



अनुयायि। दशैश्वर्याभावेन विपत्तः कर्तव्याऽस्ति चेन्न परीक्षेयमित्युच्यते। अथ न  
काराः प्रसक्तानां कोपवित्तं कोसिधत्तं विप्रयोगमिति आनर्तकं यावत्तत्  
उत्तमायाः कठिनेष्वपि काराः कृण्वन्ते ये यथाविधि रक्षित्वा गणयन्तः तेष्वेव  
अनुयायि कर्तव्यं तस्मिन्। ये अनर्तकं रक्षित्वा अत्यधिकं वायुना कारां कोपयन्तः  
सोऽन्तां कृद्भुङ्क्ते परं सोऽप्यन्तां पतन्तः नापिवायुना माटेन विनष्टां कुर्यात्। अथवा  
विप्रयोगमपि नैवेद्य-दशैश्वर्येण उत्तमायाः कठिनेष्वपि कारां रक्षित्वा सोऽन्तां  
कुर्यात्। अथवा नैवेद्य-दशैश्वर्येण उत्तमायाः कठिनेष्वपि कारां रक्षित्वा सोऽन्तां

# Ishanya Foundation

## Utilization Certificates for CSR Expenditure for FY 21-22

| Name of the Project   | Deepak Fertilizers & Petrochemicals Corporation Ltd. | Smartchem Technologies Ltd. | Performance Chemiserve Ltd. | Nova Synthetic Ltd. | Priyank Mercantile Ltd. | Total             |
|---|--|-----------------------------|-----------------------------|---------------------|-------------------------|-------------------|
| Vocational Skill Development Project                        | 1,779,000  | 4,426,841                   |                             | 84,000              | 617,000                 | <b>6,906,841</b>  |
| Livelihood Enhancement Through Entrepreneurship Development | 940,000  | 1,778,798                   | 610,000                     |                     |                         | <b>3,328,798</b>  |
| Dairy Development Project                                   | 309,000  | 532,249                     |                             |                     |                         | <b>841,249</b>    |
| WADI Project  | 886,000  | 1,373,368                   |                             |                     |                         | <b>2,259,368</b>  |
| Aarogyam- Health Initiatives                                | 7,245,000  | 12,025,257                  |                             |                     |                         | <b>19,270,257</b> |
| Gyanam- Educational Initiatives                             | 1,254,000  | 3,027,496                   |                             |                     |                         | <b>4,281,496</b>  |
| Community Development and Social Welfare Project            | 887,000  | 1,309,020                   |                             |                     |                         | <b>2,196,020</b>  |
| <b>Total Amt.Rs.</b>  | <b>13,300,000</b>                                    | <b>24,473,029</b>           | <b>610,000</b>              | <b>84,000</b>       | <b>617,000</b>          | <b>39,084,029</b> |



Home Environment Clearance Only CRZ Clearance Forest Clearance Wildlife Reference

Please do not enter any special character like < > : " / \ | ? \* etc. in the form fields



### Form for Uploading Compliance Report

Proposal No : IA/MH/IND3/231491/2021

Proposal Name :

Expansion of Fertilizer  
plant of Deepak  
Fertilisers and

Category : Industrial Projects - 3

MoEF File No. : 11011/167/2016-IA II (1)

#### Compliance Letter/Report

Year of Compliance: -All Years-

Date of Compliance \* : Select

Remarks :

Upload Compliance Letter/Report \* :

Choose File

No file chosen

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SUBMIT

| Sno. | Proposal No.           | Uploaded copy of Compliance report               | Remarks   | Uploaded Date | Delete |
|------|------------------------|--|---|---------------|--------|
| 1    | IA/MH/IND3/231491/2021 | <a href="#">0530202263567463NPKHYECcomp1.pdf</a> | Six-monthly compliance report of the year Oct 2021 to Marach 2022 | 30/05/2022    |        |







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