



DFPCL-K1/EHS/Env/2023-24/09

Date: 30-OCT-23

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 Gas Based Power Project vide file no. (SEAC-2010/CR.656/TC.2 dt 11.05.2011).

Sub: Half yearly Environmental Clearance Compliance report.

Dear Sir,

Please find enclosed the half yearly EC compliance report of **Gas Based Power Plant** for the period of **APRIL-23 to SEP-2023**.

This is for your information and records please.

Thanking you,

Yours faithfully,

For, DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD.,

Jeyaprakash M

Head (EHS)

CC :

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

DATA SHEET		
1	Project type: River- valley/ Mining / Thermal/ Industry / Nuclear/ Other (specify)	Gas Based Power Project
2	Name of the project	Gas based power project (2 X 5.2 MW and 1 X 7.5 MW) at their manufacturing facility at MIDC, Taloja, Maharashtra by Deepak Fertilisers & Petrochemicals Corporation Limited
3	Clearance letter (s) /OM No. and Date	EC granted for Gas Based Power Project vide file no. (SEAC-2010/CR.656/TC.2 dt 11.05.2011).
4	Location	
	a. District (S)	Raigad
	b. State (S)	Maharashtra
	c. Latitude/longitude	19°04'11.3"N / 73°08'04.1"E
5	Address for correspondence	
	a. Address of Concerned Project Chief Engineer (with pin code & Telephone/ telex/ fax numbers)	Mr. Jeyaprakash M (Sr.GM-EHS), M/s Deepak Fertilisers & Petrochemicals Corporation Ltd. Plot No. K-1, MIDC Industrial area, Taloja, District Raigad – 410208, Maharashtra. Phone:- 022-50684221, 9920942161
	b. Address of Executive Project: Engineer/Manager (with pin code/ Fax numbers)	Same as above
6	Salient features	
	a. of the project	Gas Based Power Project for power generation for internal use.
	b. of the environmental management plans	Gas Turbine inbuilt technology for NOx reduction. Periodic Environmental Monitoring for Ambient Air, Noise & Ground water.
7	Breakup of the project area	
	a. submergence area forest & non forest	NA. Project is established in notified industrial. area of MIDC.
	b. Others	NA
8	Breakup of the project affected Population with enumeration of Those losing houses/dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan	NA. Project is established in notified industrial. area of MIDC.
	a. SC, ST/Adivasis	NA. Project is established in notified industrial. area of MIDC.
	b. Others (Please indicate whether these Figures are based on any scientific and systematic survey carried out Or only provisional figures, if a Survey is carried out give details and years of survey)	NA

9	Financial details.	
a.	Project cost as originally planned and subsequent revised estimates and the year of price reference	79 Crores
b.	Allocation made for environmental management plans with item wise and year wise Break-up.	Enclosed.
c.	Benefit cost ratio/Internal rate of Return and the year of assessment	-
d.	Whether (c) includes the Cost of environmental management as shown in the above.	Yes
e.	Actual expenditure incurred on the project so far.	No expenditure during current financial year
f.	Actual expenditure incurred on the environmental management plans so far	Annxure-10 is attached
10	Forest land requirement	
a.	The status of approval for diversion of forest land for non-forestry use	NA. Project is established in notified industrial. area of MIDC.
b.	The status of compensatory afforestation program in the light of actual field experience so far	NA. Project is established in notified industrial. area of MIDC.
11	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information	NA. Project is established in notified industrial. area of MIDC.
12	Status of construction	
a.	Date of commencement (Actual and/or planned)	Year 2011
b.	Date of completion (Actual and/or planned)	Year 2012
13	Reasons for the delay if the Project is yet to start	NA
14	Dates of site visits	
a.	The dates on which the project was monitored by the Regional Office on previous Occasions, if any	NA
b.	Date of site visit for this monitoring report	NA
15	Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits)	NA

EC COMPLIANCE REPORT		
SN	Specific Conditions	Status of compliance
i)	Project proponent should confirm that, there is no increase in waste water & air pollutants discharged into environment due to proposed expansion.	Complied.
ii)	This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with request to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. Issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SLIAA) approved the proposed land use.	Noted.
iii)	'Consent for Establishment' shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment Department before start of any construction work at the site.	Complied. We hold valid consent to operate till 31.03.2026. (Please refer Annexure-I for copy of consent to Operate)
iv)	No land development or construction work preliminary or otherwise related to the project shall be taken up without obtaining due clearance from respective authorities	Compliance assured.
v)	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	Noted.
vi)	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.	The area in and around GT is paved and cement concrete roads are provided hence no dust is generated. Three continuous monitoring AAQM stations are installed and these are connected to MPCB portal.
vii)	Regular monitoring of the air quality, including SPM & SO ₂ levels both in work zone and ambient air shall be carried out in and around the power plant and record shall be maintained. The location of the monitoring stations & frequency of monitoring shall be decided in consultation with MPCB & submit report accordingly to MPCB.	Three continuous monitoring AAQM stations are installed and these are connected to MPCB portal. These station monitors various parameters like PM ₁₀ & PM _{2.5} , SO ₂ , NO ₂ & NH ₃ and CO. Ambient Air Monitoring & Work environment monitoring is done in the work zone through third party approved by MOEF. (Please refer Annexure-II for Ambient Air Monitoring And Annexure-III for workplace monitoring)
viii)	A detailed scheme for rain water harvesting shall be prepared and implemented to recharge ground	System for rain water harvesting is provided at existing WNA 3 plant.
ix)	Arrangement shall be made that effluent and storm water do not get mixed.	Effluent and storm water are having separate drains.
x)	Periodic monitoring of ground water shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the MPCB.	Periodic ground water monitoring is being carried out near ETP. Reports are submitted to MPCB. (Please refer Annexure-IV for ground water monitoring report)
xi)	Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite PPE like earplugs, etc. Shall be provided.	Periodic noise monitoring by third party (MoEF Approved) laboratory is carried out at different locations and noise level is within the standards prescribed, PPE like earplugs, etc. are provided for people working in the high noise area. Please refer Annexure-V for Noise Monitoring report)
xii)	Proper House keeping programmes shall be implemented.	SS program has been implemented to maintain proper House keeping.
xiii)	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. On all the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EPA, 1986 & Rules, 1989.	Periodic noise monitoring is done by MOEF approved 3rd party laboratory at eight different locations and noise level is within the standards prescribed under EP Act, 1986, Rules, 1989. Please refer Annexure-V for Noise Monitoring report)
xiv)	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species & in	Complied with. Please refer Annexure-VI for Green Belt)
xv)	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection & warning.	Leak detection devices such as gas detectors are provided at strategic places for early detection and warning. In built safety measures such as interlocks and trips are provided for critical process parameters. In addition to it onsite emergency control plan has also been prepared.
xvi)	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	Medical examination of all the workers is done in once in six months as per the factories act and records are maintained.
xvii)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Fire detection, fire protection and fire fighting arrangements have been provided in manufacturing process and in material handling areas. Company has a dedicated fire team and regular mock drills are conducted. Company also has two fire tenders
xviii)	The project authorities must strictly comply with the rules & regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management & Handling) Rules, 2003 (amended). Authorization from MPCB shall be obtained for	Complied.

xix)	The company shall undertake following Waste Minimization Measures. a. Metering of quantities of active ingredients to minimize waste b. Reuse of by-products from the process as raw materials or as raw material substitutes in other process. c. Maximizing Recoveries. d. Use of automated material transfer system to minimize spillage.	a) No active ingredient involved in GT b) There is no by product from GT c) Waste heat from GT is recovered to produce steam in HRSG. d) GT & HRSG operations are fully automated. e) As such there is no reactor in the GT however the feed system is closed one.
xx)	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	Regular mock drills for the on-site emergency management plan are carried out. On site emergency plan is reviewed and revised periodically.
xxi)	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate Environmental Management Cell equipped with required facilities is set up.
xxii)	Transportation of ash will be through closed containers & all measures should be taken to prevent	Not applicable for GT as it is gas based.
xxiii)	Separate silos will be provided for collecting & storing bottom ash & fly ash.	Not applicable for GT as it is gas based.
xxiv)	Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item wise break up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes & year-wise expenditure should be reported to the MPCB & this department.	Fund is utilized for implementation of environmental safeguard and details are reported to MPCB as part of Form V.
xxv)	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the MPCB and may also be seen at Website at http://envis.maharashtra.gov.in	Complied with.
xxvi)	Project management should submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms & conditions in hard & soft copies to the MPCB & this department on 1 st June & 1 st December of each calendar year.	Complied.
xxvii)	A copy of clearance letter shall be sent by proponent to the concerned Municipal Corporation & the local NGO, if any, from whom suggestions / representations, if any were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied with. EC conditions compliances is posted on the website of the company. Advertisement for availability of EC copy on MoEF website was published in local newspaper 'Krushiwal' for any suggestions/representations.
xxviii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website & shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB & the SPCB. The criteria pollutant levels namely SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the project shall be monitored & displayed at a convenient location near the main gate of the company in the public domain.	Six monthly compliance reports are being sent to MPCB and regional office of MOEF. Copy of the same posted on the company's web-site. Three continuous monitoring AAQM stations are installed and connected to MPCB portal. These station monitors various parameters like PM10 & PM 2.5, SO2, NOx, NH3 & CO. This data is displayed at main gate. Stack emissions are also monitored periodically through the MOEF approved third party laboratory.
xxix)	The project proponent shall also submit six 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 Regional Office of MoEF, the respective Zonal Office of CPCB & the SPCB.	Complied.
xxx)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions & shall also be sent to respective Regional Offices of MoEF by e-mail.	Complied.
xxxi)	The environmental clearance is being issued without prejudice to the court case pending in the court of law & it does not mean that project proponent has not violated any environmental laws in the past & whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.	Noted.

Government of Maharashtra

No.: SEAC 2010/ CR.656 /TC-2

Environment department,

Room No. 217, 2nd floor,

Mantralaya Annexe,

Mumbai 400 032

Date: 11th May, 2011

To,
M/s. Deepak Fertilizers and Petrochemicals Corporation Ltd.
Plot K-1, MIDC, Industrial Area,
Taloja, A.V. 410208,
District: Raigad,
P.B. 26
Maharashtra

Subject: Gas-based power project (2X5.2MW and 1X 7.5MW) at their manufacturing facility at MIDC, Taloja by M/s. Deepak Fertilizers and Petrochemicals Corporation Ltd. - Environmental clearance regarding.

Sir,

This has reference to your communication dated 27th April, 2010 on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee, Maharashtra in its 40th meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 34th meeting held on 28th February, 2011.

2. It is noted that the proposal is for grant of Environmental Clearance for Gas-based power project (2X5.2MW and 1X 7.5MW) at their manufacturing facility at MIDC, Taloja by M/s. Deepak Fertilizers and Petrochemicals Corporation Ltd. SEAC considered the project under screening category 1 (d) as per EIA Notification 2006. Project proponent has submitted EIA Report.

Project information from documents submitted by you & considered by SEAC & SEIAA is summarized as below-

Name of the Project: Gas-based power project (2X5.2MW and 1X 7.5MW) at M/s. Deepak Fertilizers and Petrochemicals Corporation Ltd.

Project Proponent: M/s. Deepak Fertilizers and Petrochemicals Corporation Ltd.

Location of the project: Gas-based power project of 2X5.2MW at K7- K8 plot and 1X 7.5MW at K1 - K5 plot of MIDC, Taloja

Type of Project: Power project

Estimated cost of the project: ₹ 79 Crores

Capacity: 2X5.2MW and 1X 7.5MW



Type of Fuel	2X5.2MW Quantity	1X 7.5MW Quantity
Natural gas	41.739 Million SM3	8.4 Million SM3
Naphtha	-	2050 MT/day
Furnace oil (If NG not available)	75 KL/day	52.5 MT/day
Diesel	7.87 KL/day	2000 lit/day

Water requirement: Source: MIDC

For 2 X 5.2MW: 4150 CMD

For 1X 7.5MW: 17,481 CMD

Effluent generated: 3878.28 CMD

Capacity of ETP : 4000 CMD

Treated Effluent will be routed to CETP, Talaja for further treatment

Total Solid waste generation:

Non Hazardous waste:

- Canteen waste: 85 kg/day
- Paper waste: 20 kg/day
- Damaged bags: 150 nos./month
- Metal scrap: 50 MT/Annum
- ETP Sludge: 28 kg/day
- Clean empty carboys/container : 660 nos./year
- De- NOx catalyst : 10 MT/6yrs.
- Pt-RH Catalyst : 100 kg/year

Hazardous waste:

- Spent Catalyst : 48.34 MT/y
- Spent oil: 92. 61 KL/Y
- Silica gel: 60 MT in 2 years.
- Oil soaked cotton waste: 3.5 MT/yr.
- Chemical containing residues from decontamination & disposal: 2 MT/yr.
- Lead acid batteries: 34 nos./yr.
- Ni Cd batteries : 400nos./once in 5 years.
- Dry cell batteries : 300nos./once in 5 years.
- Discarded drums /liners : 970 nos/yr.
- used oil filters : 25 nos./yr
- pt RH Catalyst : 100 kg/year.
- De-Nox catalyst: 10 MT/6 yrs.

Disposal :

- Talaja Hazardous waste management treatment facility.
- Disposal to registered party.

Project technical details :

	K1 - K5	K7- K8
Generation capacity	7.52 MW x 1 unit	5.2 MW x 2 units
Steam generation	11.5 TPH	9 TPH each
Natural gas consumption	0.048 MMScm per day	0.086 MMScm per day
DM water consumption	43 m3/hr	63 m3/hr
Flue gas temperature	100° C	160° C
Make	TURBOMACH Switzerland	TURBOMACH Switzerland
HRSG	Thermax	ME - Energy

Pahar

Total investment	39 Cr	40 Cr
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Environmental consideration:

7.52 MW x 1 unit			
	Liquid effluent	Gaseous emission	Other waste
Category	Blow down from water	Flue gas	Used oil
Quantity	3 m ³ /hr	95613 kg/hr Ar: 0.87% CO ₂ : 2.97% H ₂ O: 9.44 % N ₂ : 72.94% O ₂ : 13.77% NOx < 100 ppm Sox Nil	2 lit/day
Disposition	Recycled to cooling	Release through stack Ht 30 mt	Sale to register party
5.2 MW x 2 units			
	Liquid effluent	Gaseous emission	Other waste
Category	Blow down from water	Flue gas	• Used oil
Quantity	6 m ³ /hr	143750 kg/hr Ar: 0.87% CO ₂ : 2.97% H ₂ O: 9.44 % N ₂ : 72.94% O ₂ : 13.77% NOx < 100 ppm Sox Nil	2 lit/day
Disposition	Recycled to cooling	Release through stack Ht 30 mt	Sale to register party

Emission from combustion of fossil fuels from stationary and mobile source:

- About 95613 Kg / hr of exhaust gases from 7.5 MW GT (K1-K5 plot) and 143750 Kg/hr from 2 no GT's 5.2 MW each (K7-K8 plot) shall vent to atmosphere which will contain about 2.5% (vol %) CO₂ and less than 100 ppm NOx.

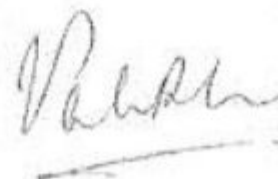
Air pollution control measures:

- NOx analyzer in WNA stack - 4 nos.
- continuous ambient air monitoring instruments (SPM, NOx, Sox, NH₃) - 3 stations
- V- notch for measuring ETP treated effluent.
- Stacks for boilers & HRSG
- Bag house for SPM controller
- Gas turbine with inbuilt technology for NOx reduction
- Cyclone column scrubbers in AN solution plant.

Green Belt development: 5 hectares of land will be developed as green belt.

Noise pollution measures: all designed are equipped for 85 dB

Environmental Management Plan:



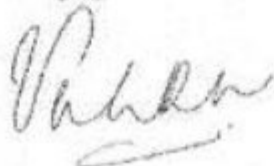
Sr. No.	Description	Capital Cost (₹)		Recurring Cost per annum(₹)	
		Plot K1-K5	Plot K7-K8	Plot K1-K5	Plot K7-K8
1	Air Pollution Control Measures	~ 16.2 Crore	~ 19.5 Crore	11 lac	16 lac
2	Noise Pollution Control Measures	~1.0 Crore	~1.5 Crore	1 Crore	1.5 Crore
4	Water Pollution Control measure	5.0 lac	8.0 lac	0.5 lac	1.0 lac

Other Measures :

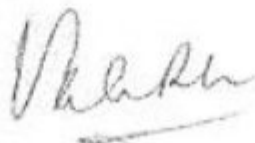
Activity	Investment		Advantages
	Plot K1-K5	Plot K7-K8	
Green patch in the vicinity of proposed power plant (Garden etc.)	5 lac	8 lac	Improvement in ambience of the premises
Plantation (Inside & outside plant premises & in the vicinity villages)	15lac	10 lac	Air Pollution Control measure & Social cause
Environment awareness hordings	5 lac	5 lac	Awareness improvement programme.

3. The proposal has been considered by SEIAA in its 34th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

- Project proponent should confirm that, there is no increase in waste water and air pollutants discharged into environment due to proposed expansion.
- This environmental clearance is issued subject to land use verification. Local authority / planning authority should, ensure this with request to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.
- "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
- No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.



- (v) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (vi) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (vii) Regular monitoring of the air quality, including SPM & SO₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (viii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (ix) Arrangement shall be made that effluent and storm water do not get mixed.
- (x) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (xi) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (xii) Proper House keeping programmes shall be implemented.
- (xiii) The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. On all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- (xiv) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- (xvi) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xvii) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xviii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xix) The company shall undertake following Waste Minimization Measures :
 - a. Metering of quantities of active ingredients to minimize waste
 - b. Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
 - c. Maximizing Recoveries.
 - d. Use of automated material transfer system to minimize spillage.
 - e. Use of "Closed Feed" system into batch reactors.
- (xx) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xxi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxii) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.



- (xxiii) Separate silos will be provided for collecting and storing bottom ash and fly ash.
 - (xxiv) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
 - (xxv) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://envis.maharashtra.gov.in>
 - (xxvi) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
 - (xxvii) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
 - (xxviii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
 - (xxix) The project proponent shall also submit six 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 Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
 - (xxx) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
 - (xxxi) The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.
4. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
 5. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.
 6. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the



adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

7. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
8. Any appeal against this environmental clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environmental Appellate Act, 1997.



(Valsa R Nair Singh)
Secretary, Environment
Department & MS, SEIAA

Copy to:

1. Shri. Ashok Basak, IAS (Retd.), Chairman, SEIAA, 502, Charleville, 'A' Road, Churchgate, Mumbai- 400 020, Maharashtra.
2. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEAC, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerala.
3. The Secretary, Energy department, Govt. of Maharashtra, Mantralaya, Mumbai - 400032., Maharashtra
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Raigad.
7. Collector, Raigad.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
9. Director(TC-1), Dy. Secretary(TC-2), Scientist-1, Environment department
10. Select file (TC-3).

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/L.S.I (R25)

Date: 03/01/2023

No:- Format 1.0/CAC/UAN No.MPCB-
CONSENT-0000146287/CO/2301000400

To,
M/s Deepak Fertilizers & Petrochemicals Corporation
Limited,
Plot Nos. K-1 Part-1, K-2, K-3, K-4, K-5 & K-6, MIDC
Taloja, Tal. Panvel, Dist. Raigad.



Your Service is Our Duty

**Sub: Grant of 1st Consent to Operate for operation of DG Set (20 KVA)
with amalgamation of existing consent to operate under Red/LSI**

- Ref:**
1. Environment Clearance accorded vide F. No. J-11011/218/2004-IA II (I) dtd. 24.02.2006.
 2. Consent to Operate accorded vide No. Format 1.0/CAC/ UAN No. 0000108011/CR-2108001156 dated 20/8/2021
 3. Consent to Establish granted vide No. Format 1.0/CAC/UAN No. 0000127936/CE/2207000110 dated 02/7/2022
 4. Minutes of Consent Appraisal Committee meeting held on 02/12/2022

Your application No.MPCB-CONSENT-0000146287 Dated 17.08.2022

For: grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to operate is granted for a period up to 31/03/2026**
2. **The capital investment of the project is Rs.643.93 Crs. (As per C.A Certificate submitted by industry Existing-643.76 Cr + Expansion- 0.17 Cr)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Hand Sanitizer (By mixing & blending only)	7200	MT/A
2	METHANOL	99996	MT/A
3	LIQUID CO2	72000	MT/A
4	WEAK NITRIC ACID (Plant No. 3)	99000	MT/A
5	CONCENTRATED NITRIC ACID (Plant Nos. 1,2 and 3)	129600	MT/A

Sr No	Product	Maximum Quantity	UOM
6	Iso Propyl Alcohol	70200	MT/A
7	Di Iso Propyl Ether (DIPE) (FOR DRUM FILLING OPERATION (PACKAGING OPERATION ONLY)	15000	MT/A
8	ISO PROPYL ALCOHOL (FOR DRUM FILLING OPERATION (PACKAGING OPERATION ONLY)	15000	MT/A
9	Electricity power GT-1, 2 and 5 (Gas based excluding DG Sets)	16.9	MW
10	STEAM	696	MT/Day
11	CRUDE DIPE	1440	MT/A
12	Crude IPA/ NPA mixture	1080	MT/A
13	Propane	33000	MT/A

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	1515.86	As per Schedule-I	Sent to ETP of M/s Smartchem Tech. Ltd., Plot Nos. K-1, MIDC Taloja
2.	Domestic effluent	51.5	As per Schedule-I	Sent to ETP of M/s Smartchem Tech. Ltd., Plot Nos. K-1, MIDC Taloja

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S-1	Methanol Primary Reformer	1	As per Schedule -II
2	S-2	Weak Nitric Acid plant-3	1	As per Schedule -II
3	S-3	Boiler-A & B	1	As per Schedule -II
4	S-4	Boiler-C	1	As per Schedule -II
5	S-5	Boiler-D	1	As per Schedule -II
6	S-6	Heat Recovery steam generator 1 - Attached to Gas Turbine 1	1	As per Schedule -II
7	S-7	Heat Recovery steam generator 2 - Attached to Gas Turbine 2	1	As per Schedule -II
8	S-8	Heat Recovery steam generator 5 - Attached to Gas Turbine 5	1	As per Schedule -II
9	S-9	DG Set (200 KVA) - IPA Plant	1	As per Schedule -II
10	S-10	DG Set (1000 KVA) - Methanol Plant	1	As per Schedule -II
11	S-11	IPA Flare Stack	1	As per Schedule -II

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
12	S-12	DG Set (20 KVA)	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	CANTEEN FOOD WASTE	2190	Kg/Annum	Composting (in house or through Auth. agency)	Used as manure
2	PAPER WASTE, CARTOON	730	Kg/Annum	NA	Sale to Auth. Party/ Vendor
3	PACKAGING WASTE	547.5	Kg/Annum	NA	Sale to Auth. Party/ Vendor
4	INSULATION WASTE	20	MT/A	Landfill	CHWTSDF
5	SPUN FILTERS	1	MT/A	Incineration/ Landfill	CHWTSDF

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	15	KL/A	Recycle	Sale to Auth. Party/ Recycler/ CHWTSDF
2	5.2 Wastes or residues containing oil	1.1	MT/A	Incineration	CHWTSDF
3	18.1 Spent catalyst	48.34	MT/A	Recycle/ Landfill	Sale to Auth. Party/ Recycler/ CHWTSDF
4	33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	110	Nos./Y	Recycle	Sale to Auth. Party/ CHWTSDF
5	35.1 KMNO4 Sludge/ Process residue	30	MT/A	Recycle/ Secured Landfill after treatment	Sale to Auth. Party/ CHWTSDF
6	33.1 Spray Cans	50	Nos./Y	Recycle	Sale to Auth. Party/ CHWTSDF
7	33.1 Used Containers	1000	Nos./Y	Recycle	Sale to Auth. Party/ CHWTSDF
8	17.2 Spent platinum Rhodium catalyst	35	Kg/Annum	Recycle	Sale to Auth. Party/ CHWTSDF
9	17.2 Spent / Used Denox catalyst (once in 6 year)	3	MT	Recycle	Sale to Auth. Party/ CHWTSDF

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
10	35.2 Spent ion exchange resin (DM Resin)	6	MT/A	Recycle / Incineration	Sale to Auth. Party/ CHWTSDF
11	5.2 Used oil filter (non-metallic)	15	MT/A	Incineration	CHWTSDF

8. **Conditions under Batteries (Management & Handling) Rules, 2001:**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	LEAD ACID BATTERIES	20.00	Nos./Y	Sale to Auth. Party/ Recycler
2	Ni-Cd BATTERIES	100.00	Nos./Y	Sale to Auth. Party/ Recycler/ CHWTSDF
3	DRY CELL BATTERIES	100.00	Nos./Y	Sale to Auth. Party/ Recycler/ CHWTSDF

Specific Conditions for used Batteries:

- The applicant shall ensure that used batteries are not disposed of in any manner other than by depositing with the authorized dealer/ manufacturer/ registered recycler/ importer/ re-conditioner or at the designated collection center.
- The applicant shall file half-yearly return in Form VIII to the M.P.C. Board.
- Bulk consumers to their user units may auction used batteries to registered recyclers only.

9. **Conditions under E-Waste Management:**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	E- Waste	2.00	MT/A	Sale to Auth. E-waste Handler/ Recycler

10. **Treatment and Disposal of Biomedical Waste generated to CBMWTSDf:**

Sr.No	Category	Type of Waste	Quantity not to exceed (Kg/M)	Segregation Color coding	Treatment & Disposal
1	Yellow	a) Soiled Waste	20.00	Yellow colored non-chlorinated plastic bags or containers	CBMWTSDf
2	Red	Contaminated waste (Recyclable)	5.00	Red colored non chlorinated plastic bags or containers	CBMWTSDf
3	White (Translucent)	Waste sharps including Metals	5.00	Puncture proof, Leak proof, tamper proof container	CBMWTSDf
4	Blue	a) Glassware	20.00	Puncture proof & leak proof boxes or containers with blue colored marking.	CBMWTSDf

11. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
12. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
13. Industry shall send effluent to ETP of M/s Smartchem Tech. Ltd., Plot Nos. K-1, K-1 Part-1, K-1 Part-2, MIDC Taloja for treatment to achieve Consented standards.
14. Industry will be held jointly and severally responsible for operation and maintenance of the ETP and, in case, if JVS results exceeds Consented standards, then both unit i.e. M/s Deepak Fertilizers & Petrochemicals Corporation Ltd. and M/s Smartchem Technologies Limited will be held equally & jointly responsible.
15. Industry shall comply with the conditions stipulated in interim directions on 17.09.2020.
16. Industry shall comply with the conditions stipulated in the Environment Clearance dtd. 24.02.2006.
17. This consent is issued overriding effect to earlier consent to operate granted vide No. Format 1.0/CAC/UAN No. 0000108011/CR-2108001156 dated 20/8/2021
18. This consent is issued as per the minutes of Consent Appraisal Committee meeting held on 02/12/2022
- . This consent is issued as per communication letter dated 03/11/2022 which is approved by competent authority of the board.



Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	6000.00	MPCB-DR-13931	07/09/2022	NEFT

Balance Consent fees is of Rs. 1,537/- as per existing C to O dated 20/8/2021 and will be considered at the time of next renewal.

Copy to:

1. Regional Officer, MPCB, Navi Mumbai and Sub-Regional Officer, MPCB, Taloja
 - They are directed to ensure the compliance of the consent conditions.
 - They are directed to forfeit the bank guarantee of Rs. 625000 & obtain top up total BG of Rs. 25 Lakh from the industry
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CC-CAC Desk- for record & website updating purpose.

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A] As per your application, you have proposed to send 1515.86 CMD industrial effluent to ETP of M/s Smartchem Tech. Ltd., Plot Nos. K-1, K-1 Part-1, K-1 Part-2, MIDC Talaja having designed capacity of 4800 CMD comprising of Process Waste Collection Tank, Collection Tank (Phosphatic Effluent), Reaction Tank-I, Clariflocculator, Collection Tank (IPA Effluent), Aeration Tank (IPA Effluent), Clarifier (IPA Effluent), Reaction Tank-IIA, Reaction Tank-IIA, Ammonia Stripper-I Collection Tank, Reaction Tank-II, Denitrification Tank (Stage-I), Denitrification Tank (Stage-I), Clarifier, Denitrification Tank (Stage-II), Clarifier, Denitrification Tank (Stage-II), Clarifier, Dissolved Air Floatation (DAF), Final Polishing Tank.

- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

Sr.No	Parameters	Limiting concentration not to exceed in mg/l, except for pH
(1)	pH	6.5 to 8.5
(2)	Oil & Grease	10
(3)	BOD (3 days 27°C)	100
(4)	Total Suspended solids	100
(5)	COD	250
(6)	TDS	2100
(7)	Ammoniacal Nitrogen as N	50
(8)	Total Kjeldhal Nitrogen (TKN) as N	75
(9)	Free Ammoniacal Nitrogen as N	4
(10)	Fluoride as F	10
(11)	Dissolved Phosphate as P	5
(12)	Nitrate Nitrogen as N	20

- C] The treated effluent shall be discharged into CETP for further treatment & disposal through ETP of M/s Smartchem Tech. Ltd. after confirming above standards.
2. A] As per your application, you have proposed to send 51.5 CMD domestic effluent to ETP of M/s Smartchem Tech. Ltd. for treatment & disposal.
- B] Industry shall comply prescribed standards & disposal path as prescribed at Sr. No. 1 B & C of schedule I.
3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.

4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	6724.00
2.	Domestic purpose	56.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	1024.20
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Source	APC System provided/prop osed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
S-1	Methanol Primary Reformer	Stack	30.00	Natural gas 1946 Kg/Hr	-	NO2	400 Mg/Nm ³
S-2	Weak Nitric Acid plant-3	Scrubber	60.00	-	-	NO2	400 Mg/Nm ³
S-3	Boiler-A & B	Stack	30.00	NATURA GAS 2221 Kg/Hr	-	NOx	350 Mg/Nm ³
						PM	10 Mg/Nm ³
S-4	Boiler-C	Stack	30.50	NATURAL GAS 444 Kg/Hr	-	NOx	350 Mg/Nm ³
						PM	10 Mg/Nm ³
S-5	BOILER-D	Stack	63.00	NATURAL GAS 1644 Kg/Hr	-	NOx	350 Mg/Nm ³
						PM	10 Mg/Nm ³

Stack No.	Source	APC System provided/prop osed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
S-6	Heat Recovery steam generator 1- Attached to gas turbine 1	Stack	30.00	NATURAL GAS 1331 Kg/Hr	-	NOx	350 Mg/Nm ³
						PM	10 Mg/Nm ³
S-7	Heat Recovery steam generator 2- Attached to gas turbine 2	Stack	30.00	NATURAL GAS 1331 Kg/Hr	-	NOx	350 Mg/Nm ³
						PM	10 Mg/Nm ³
S-8	Heat Recovery steam generator 5- Attached to gas turbine 5	Stack	30.00	NATURAL GAS 1534 Kg/Hr	-	NOx	350 Mg/Nm ³
						PM	10 Mg/Nm ³
S-9	DG Set (200 KVA) - IPA Plant	Stack of height 3 mtrs above roof	3.00	DIESEL 33 Kg/Hr	1	SO2	16 Kg/Day
S-10	DG Set (1000 KVA) - Methanol Plant	Stack of height 6.5 mtrs above roof	6.50	DIESEL 166.66 Kg/Hr	1	SO2	80 Kg/Day
S-11	IPA Flare Stack (Burning shall be smokeless)	Stack	65.00	NATURAL GAS 1.84 Kg/Hr	-	-	-
S-12	DG Set (20 KVA)	Stack	2.50	Diesel 4.2 Ltr/Hr	1	TPM	150 Mg/Nm ³

- The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
- The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

SCHEDULE-III

Details of Bank Guarantees:

Sr. No	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C2R	2500000	Within 15 days	Towards O&M of pollution control systems and towards compliance of the Consent conditions	31.03.2026	31.07.2026

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
1	C to R	25 Lakh	Existing	Towards O&M of pollution control systems and towards compliance of the Consent conditions	625000	Towards JVS exceedance

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

SCHEDULE-IV

General Conditions:

1. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that e-waste generated by them is channelised through collection centre or dealer of authorised producer or dismantler or recycler or through the designated take back service provider of the producer to authorised dismantler or recycler
2. Bulk consumers of electrical and electronic equipment listed in Schedule I shall maintain records of e-waste generated by them in Form-2 and make such records available for scrutiny by the concerned State Pollution Control Board
3. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that such end-of-life electrical and electronic equipment are not admixed with e-waste containing radioactive material as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and rules made there under;
4. Bulk consumers of electrical and electronic equipment listed in Schedule I shall file annual returns in Form-3, to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates. In case of the bulk consumer with multiple offices in a State, one annual return combining information from all the offices shall be filed to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

5. Specific Conditions for storage, Handling and Disposal of Waste from Electrical & Electronic equipment (WEEE):
1. **Collection of WEEE** - The applicant must provide appropriate and dedicated vehicles duly identified as per the norms for transportation of Hazardous Waste. The applicant shall obtain all the required permits for transportation of WEEE from competent authority. The applicant shall ensure the safe transport of the WEEE without any spillage during transportation.
Storage for disassembled parts: The applicant must provide appropriate storage for disassembled spare parts from WEEE. Some spare parts (e.g. motors and compressors) will contain oil and/or other fluids. Such part must be appropriately segregated and stored in containers that are secured such that oil and other fluids cannot escape from them. These containers must be stored on an area with an area with an impermeable surface and a sealed drainage system.
 2. **Storage for other components and residues:** Other components and residues arising from the treatment of WEEE will need to be contained following their removal for disposal or recovery. Where they contain hazardous substances they should be stored on impermeable surface and in appropriate containers or bays with weatherproof covering. Containers should be clearly labelled to identify their contents and must be secured so that liquids, including rain water cannot enter them. Components should be segregated having regard to their eventual destinations and the compatibility of the component types. All batteries should be handled and stored having regard to the potential fire risk associated with them.
 3. **Balances :** WEEE Guidelines also requires that sites for handling of WEEE have "balances to measure the weight of the segregated waste". The objective is to ensure that a record of weights can be maintained of WEEE entering a facility and components and materials leaving each site (together with their destinations). The nature of the weighing equipment should be appropriate for the type and quantity of WEEE being processed.
 4. Plastic, which cannot be recycled and is hazardous in nature, is recommended to be land filled in nearby CHWTSDf.
 5. Ferrous and nonferrous metal recycling facilities fall under the purview of existing environmental regulations for air, water, noise, land and soil pollution and generation of hazardous waste and the same should be followed.
 6. CFCS should be either reused or incinerated in common hazardous waste Incineration facilities at CHWTSDf.
 7. Waste Oil should be either reused or incinerated in common hazardous waste incineration facilities.
 8. PCB's containing capacitors shall be incinerated in common hazardous waste incineration facilities at CHWTSDf.
 9. Mercury recovery and lead recycling facilities from batteries fall under the Hazardous & Other Wastes (M & TM) Rules, 2016.
 10. Existing environmental regulations for air; water; noise, land and soil pollution and generation of hazardous waste and the same should be followed. In case Mercury or lead recovery is very low, they can be temporarily stored at e-waste recycling facility and later disposed in TSDF.
 11. The industry shall maintain records of the e-waste purchased, processed in Form-2 and shall file annual returns of its activities of previous year in Form-3 as per Rules 11(9) & 13(3)(vii) of the E-Waste(M) Rules, 2016; on or before 30th day of June of every year.

6. The Energy source for lighting purpose shall preferably be LED based
7. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
8. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
9. The applicant shall maintain good housekeeping.
10. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
11. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
12. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
13. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
14. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
15. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
16. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
17. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

18. The PP shall provide personal protection equipment as per norms of Factory Act
19. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
20. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
21. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
22. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
23. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
24. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
25. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
26. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
27. The industry should not cause any nuisance in surrounding area.
28. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
29. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
30. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
31. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.

32. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
33. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
34. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
35. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
36. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
37. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
38. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.



This certificate is digitally & electronically signed.



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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/04/64	Test Report Date	11/04/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	05/04/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	06/04/2023 To 11/04/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	04/04/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:05	24	27	34	38	72

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	64.98	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.76	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.23	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.97	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.94	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.12	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	11.20	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	23.54	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	12.21	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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
[SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/04/65	Test Report Date	11/04/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	05/04/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	06/04/2023 To 11/04/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	04/04/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:35	24	27	34	38	72

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	67.21	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	35.93	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	29.66	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	40.21	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.23	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.16	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	14.00	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	21.79	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	12.64	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/04/66	Test Report Date	11/04/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	05/04/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	06/04/2023 To 11/04/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	04/04/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:20	24	27	34	38	72

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	63.68	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	31.43	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	25.93	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	38.65	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.00	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	12.32	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	20.29	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	9.95	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/04/67	Test Report Date	11/04/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	05/04/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	06/04/2023 To 11/04/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	04/04/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:50	24	27	34	38	72

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	63.46	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	32.81	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	25.68	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	34.23	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.13	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	13.44	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	23.33	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	10.99	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/08/162	Test Report Date	23/08/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/08/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/08/2023 To 23/08/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	16/08/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
10:55	24	26	31	46	85

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.59	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	31.65	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	22.71	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	31.37	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.09	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	10.97	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	20.04	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	9.88	20.0	IS 5182 (Part XXVI) 2020
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/08/163	Test Report Date	23/08/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/08/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/08/2023 To 23/08/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	16/08/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
13:55	24	26	31	46	85

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	66.27	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	30.42	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	26.95	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	32.76	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.17	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	12.07	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	18.33	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	11.09	20.0	IS 5182 (Part XXVI) 2020
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/08/164	Test Report Date	23/08/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/08/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/08/2023 To 23/08/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	16/08/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
13:25	24	26	31	46	85

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	63.81	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	27.75	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	24.29	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	29.42	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.13	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.16	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	13.17	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	14.67	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	11.51	20.0	IS 5182 (Part XXVI) 2020
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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
[SACHIN B. GAONKAR]

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Note :

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/08/165	Test Report Date	23/08/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/08/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/08/2023 To 23/08/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	16/08/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
13:40	24	26	31	46	85

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	63.75	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	30.91	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	32.43	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	38.91	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.22	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	15.36	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	22.38	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII);2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	13.52	20.0	IS 5182 (Part XXVI) 2020
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/06/198	Test Report Date	22/06/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/06/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/06/2023 To 21/06/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	14/06/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:30	24	28	35	38	72


ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	68.61	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	36.29	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.37	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.71	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.25	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	13.44	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	19.29	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII):2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	8.43	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/07/146	Test Report Date	17/07/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	11/07/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	12/07/2023 To 17/07/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	10/07/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:10	24	22	30	66	90

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.17	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	30.48	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	28.65	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	33.17	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.00	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.13	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	14.00	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	21.58	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	13.27	20.0	IS 5182 (Part XXVI) 2020
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/07/147	Test Report Date	17/07/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	11/07/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	12/07/2023 To 17/07/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	10/07/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
13:50	24	22	30	66	90

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	64.93	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.48	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	30.13	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	38.47	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.12	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	15.12	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	14.67	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	11.16	20.0	IS 5182 (Part XXVI) 2020
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/07/148	Test Report Date	17/07/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	11/07/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	12/07/2023 To 17/07/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	10/07/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:55	24	22	30	66	90

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.65	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	29.79	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	28.46	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	35.29	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.93	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.12	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	12.88	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	16.21	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	10.43	20.0	IS 5182 (Part XXVI) 2020
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/07/149	Test Report Date	17/07/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	11/07/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	12/07/2023 To 17/07/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	10/07/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
14:05	24	22	30	66	90

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	62.68	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	29.74	60.0	IS 5182 (Part XXIV) 2019
SO ₂	µg/m ³	30.27	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.40	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.85	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.10	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	12.32	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	19.29	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	11.01	20.0	IS 5182 (Part XXVI) 2020
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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/23/06/197	Test Report Date	22/06/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/06/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/06/2023 To 21/06/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	14/06/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
10:35	24	28	35	38	72

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.79	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.53	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	30.41	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.15	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.04	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.12	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	12.32	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	20.04	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	11.90	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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
[SACHIN B. GAONKAR]

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Note :

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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/7.8/03

Test Report No.	GA/23/06/198	Test Report Date	22/06/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/06/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/06/2023 To 21/06/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	14/06/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:30	24	28	35	38	72


ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	68.61	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	36.29	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.37	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	36.71	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.25	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	13.44	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	19.29	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	8.43	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/06/199	Test Report Date	22/06/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/06/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/06/2023 To 21/06/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	14/06/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
10:50	24	28	35	38	72

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	63.54	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	32.71	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	26.48	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	33.54	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.16	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	11.76	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	23.92	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	10.31	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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/23/06/200	Test Report Date	22/06/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	15/06/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	16/06/2023 To 21/06/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	14/06/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
13:30	24	28	35	38	72


ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.94	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	32.48	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	28.23	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	33.29	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.98	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.11	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	10.64	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	22.38	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	8.69	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/06/201	Test Report Date	22/06/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	16/06/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	17/06/2023 To 22/06/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Main Gate (K-6)				
Date of Sampling	15/06/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
15:20	24	27	35	41	70

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	65.70	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.96	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	25.71	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	38.95	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.17	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.15	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	13.44	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	25.42	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	10.76	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/06/201	Test Report Date	22/06/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	—	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	16/06/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	17/06/2023 To 22/06/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Main Gate (K-6)				
Date of Sampling	15/06/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
15:20	24	27	35	41	70

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	65.70	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.96	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	25.71	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	38.95	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.17	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.15	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	13.44	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	25.42	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	10.76	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No: GLPL/QF/7.8/03

Test Report No.	GA/23/05/12	Test Report Date	09/05/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	03/05/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	04/05/2023 To 09/05/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Methanol Gate				
Date of Sampling	02/05/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:35	24	25	36	39	76

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	62.45	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	30.19	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	26.87	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	29.44	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.81	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	13.44	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	19.54	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	12.51	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

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End

For GADARK LAB PVT. LTD.

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[KAILAS V. CHITALKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/05/13	Test Report Date	09/05/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA – PANVEL, DIST. – RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	03/05/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	04/05/2023 To 09/05/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near IPA Gate				
Date of Sampling	02/05/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
12:25	24	25	36	39	76

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	65.89	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	33.41	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	27.13	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	34.29	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.21	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.12	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	11.76	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	17.63	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	9.83	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 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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INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/05/14	Test Report Date	09/05/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	03/05/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	04/05/2023 To 09/05/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near WNA III Plant Area				
Date of Sampling	02/05/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
12:10	24	25	36	39	76

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	60.27	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	29.63	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	23.29	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	30.65	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.04	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	10.64	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	23.13	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	7.90	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

*N.A.A.Q.S. - National Ambient Air Quality Standards

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/05/15	Test Report Date	09/05/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	03/05/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	04/05/2023 To 09/05/2023

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Acid Tank Farm Area				
Date of Sampling	02/05/2023				
Time of Sampling	Duration of Sampling	Ambient Temperature [°C]		Relative Humidity [%]	
[Hrs]	[Hrs]	Min.	Max.	Min.	Max.
11:15	24	25	36	39	76

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Sampling & Analysis Methods
PM ₁₀	µg/m ³	64.11	100.0	IS 5182 (Part XXIII) 2006
PM _{2.5}	µg/m ³	31.67	60.0	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016
SO ₂	µg/m ³	26.91	80.0	IS 5182 (Part II) 2001
NO ₂	µg/m ³	31.15	80.0	IS 5182 (Part VI) 2006
CO	mg/m ³	1.06	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.12	1.0	IS 5182 (Part XXII) 2004
Ozone	µg/m ³	11.76	100.0 for 8 Hrs.	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 411 2016
Ammonia	µg/m ³	21.71	400.0	ISC Method of Air Sampling & Analysis 3 rd Edition, Method 401 2016
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part XI) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part XII) 2004
Arsenic	ng/m ³	< 0.4	6.0	IS 5182 (Part XXII) 2004
Nickel	ng/m ³	10.82	20.0	IS 5182 (Part XXII) 2004
Hydrocarbon	µg/m ³	< 1.0	Not Specified	IS 5182 (Part XVII) 1979
Fluoride	mg/m ³	< 0.010	Not Specified	IS 5182 (Part XIII) 1991
SO ₃	µg/m ³	< 6.0	Not Specified	ASTM D 3226
Acid Mist	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob
HCl	µg/m ³	< 1.0	Not Specified	By Morris B. Jacob

*N.A.A.Q.S. - National Ambient Air Quality Standards

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/04/63	Test Report Date	11/04/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 2
Sampling Done By	GLPL	Sample Received on	05/04/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	06/04/2023 To 07/04/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-2
Stack Attached to	WNA - III Plant
Stack Dimension [mm]	953
Fuel Used	Process Stack
Date of Sample collection	04/04/2023
Time of Sampling [Hrs]	12:20
Temperature of flue gas [°C]	121
Average flue gas velocity [m/s]	28.1
Average volume of flue gas discharged [Nm ³ /hr]	54535

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
NO ₂	mg/Nm ³	237.5	400.0	IS 11255 (Part VII) 2005
	ppm	126.4		
	Kg/day	312.02		
Ammonia	mg/Nm ³	19.3	Not Specified	IS 11255 (Part VI) 1999
	ppm v/v	27.7		
	Kg/day	25.25		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/04/63 Contd...	Test Report Date	11/04/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	2 of 2
Sampling Done By	GLPL	Sample Received on	05/04/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	06/04/2023 To 07/04/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-2
Stack Attached to	WNA - III Plant
Stack Dimension [mm]	953
Fuel Used	Process Stack
Date of Sample collection	04/04/2023
Time of Sampling [Hrs]	12:20
Temperature of flue gas [°C]	121
Average flue gas velocity [m/s]	28.1
Average volume of flue gas discharged [Nm ³ /hr]	54535

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	2.3	Not Specified	IS 11255 (Part I) 1985
	Kg/day	3.01		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/08/159	Test Report Date	23/08/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/08/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/08/2023 To 19/08/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-6
Stack Attached to	HRSG - 1
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	16/08/2023
Time of Sampling [Hrs.]	12:40
Temperature of flue gas [°C]	154
Average flue gas velocity [m/s]	12.0
Average volume of flue gas discharged [Nm ³ /hr]	53396

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	2.6	10.0	IS 11255 (Part I) 1985
	Kg/day	3.33		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	16.6		
	ppm v/v	8.8		
CO	Kg/day	21.28	---	APHA Edition II-134
	mg/Nm ³	20.0		
	ppm	17.5		
	Kg/day	25.69		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/08/160	Test Report Date	23/08/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/08/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/08/2023 To 19/08/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-7
Stack Attached to	HRSG - 2
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	16/08/2023
Time of Sampling [Hrs.]	13:30
Temperature of flue gas [°C]	175
Average flue gas velocity [m/s]	14.4
Average volume of flue gas discharged [Nm ³ /hr]	60945

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	1.9	10.0	IS 11255 (Part I) 1985
	Kg/day	2.78		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	103.6	350.0	IS 11255 (Part VII) 2005
	ppm v/v	55.1		
	Kg/day	151.49		
CO	mg/Nm ³	29.8	---	APHA Edition II-134
	ppm	26.0		
	Kg/day	43.57		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/08/161	Test Report Date	23/08/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/08/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/08/2023 To 19/08/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-8
Stack Attached to	HRSG - 5
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	16/08/2023
Time of Sampling [Hrs.]	14:25
Temperature of flue gas [°C]	113
Average flue gas velocity [m/s]	15.3
Average volume of flue gas discharged [Nm ³ /hr]	75277

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	3.1	10.0	IS 11255 (Part I) 1985
	Kg/day	5.60		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	157.1	350.0	IS 11255 (Part VII) 2005
	ppm v/v	83.6		
	Kg/day	283.90		
CO	mg/Nm ³	27.5	---	APHA Edition II-134
	ppm	24.0		
	Kg/day	49.67		

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/08/158	Test Report Date	23/08/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	17/08/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	18/08/2023 To 19/08/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-3
Stack Attached to	Boiler A & B
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	16/08/2023
Time of Sampling [Hrs.]	11:45
Temperature of flue gas [°C]	85
Average flue gas velocity [m/s]	3.3
Average volume of flue gas discharged [Nm ³ /hr]	17610

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	15.9		
	ppm v/v	8.5		
CO	Kg/day	6.72	---	APHA Edition II-134
	mg/Nm ³	19.6		
	ppm	17.1		
	Kg/day	8.28		

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/23/07/145	Test Report Date	17/07/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	11/07/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	12/07/2023 To 13/07/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-3
Stack Attached to	Boiler A & B
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	11/07/2023
Time of Sampling [Hrs.]	10:30
Temperature of flue gas [°C]	90
Average flue gas velocity [m/s]	3.6
Average volume of flue gas discharged [Nm ³ /hr]	18804

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	Nil	10.0	IS 11255 (Part I) 1985
	Kg/day	Nil		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	17.0	350.0	IS 11255 (Part VII) 2005
	ppm v/v	9.0		
	Kg/day	7.66		
CO	mg/Nm ³	18.7	---	APHA Edition II-134
	ppm	16.3		
	Kg/day	8.43		

End

For GADARK LAB PVT. LTD.


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Note :

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5. Customer complaint register is available at laboratory.



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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/05/11	Test Report Date	09/05/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	03/05/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	04/05/2023 To 05/05/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-5
Stack Attached to	Boiler D
Stack Dimension [mm]	2500
Stack Height [Meters]	63
Date of Sample collection	02/05/2023
Time of Sampling [Hrs.]	15:20
Temperature of flue gas [°C]	115
Average flue gas velocity [m/s]	3.7
Average volume of flue gas discharged [Nm ³ /hr]	50225

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	3.8	10.0	IS 11255 (Part I) 1985
	Kg/day	4.58		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	16.8	350.0	IS 11255 (Part VII) 2005
	ppm v/v	8.9		
	Kg/day	20.23		
CO	mg/Nm ³	19.5	---	APHA Edition II-134
	ppm	17.0		
	Kg/day	23.48		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/05/8	Test Report Date	09/05/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	03/05/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	04/05/2023 To 05/05/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-6
Stack Attached to	HRSG - 1
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	02/05/2023
Time of Sampling [Hrs.]	12:50
Temperature of flue gas [°C]	160
Average flue gas velocity [m/s]	12.2
Average volume of flue gas discharged [Nm ³ /hr]	53532

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	1.7	10.0	IS 11255 (Part I) 1985
	Kg/day	2.18		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	25.0		
	ppm v/v	13.3		
CO	Kg/day	32.12	---	APHA Edition II-134
	mg/Nm ³	23.1		
	ppm	20.2		
	Kg/day	29.73		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/05/9	Test Report Date	09/05/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	--	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	03/05/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	04/05/2023 To 05/05/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-7
Stack Attached to	HRSG - 2
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	02/05/2023
Time of Sampling [Hrs.]	13:30
Temperature of flue gas [°C]	185
Average flue gas velocity [m/s]	14.6
Average volume of flue gas discharged [Nm ³ /hr]	60443

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	1.9	10.0	IS 11255 (Part I) 1985
	Kg/day	2.76		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	121.4	350.0	IS 11255 (Part VII) 2005
	ppm v/v	64.6		
	Kg/day	176.15		
CO	mg/Nm ³	37.8	---	APHA Edition II-134
	ppm	33.0		
	Kg/day	54.84		

End

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TEST REPORT

Doc.No: GLPL/QF/7.8/02

Test Report No.	GA/23/05/10	Test Report Date	09/05/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	03/05/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	04/05/2023 To 05/05/2023

SAMPLING DETAILS - STACK EMISSION

Stack No.	S-8
Stack Attached to	HRSG - 5
Stack Dimension [mm]	1500
Stack Height [Meters]	30
Date of Sample collection	02/05/2023
Time of Sampling [Hrs.]	14:20
Temperature of flue gas [°C]	119
Average flue gas velocity [m/s]	15.4
Average volume of flue gas discharged [Nm ³ /hr]	74609

ANALYSIS REPORT :

Parameters	Unit	Results	M.P.C.B. Limits	Sampling & Analysis Methods
PM	mg/Nm ³	1.6	10.0	IS 11255 (Part I) 1985
	Kg/day	2.87		
Sulphur Dioxide	mg/Nm ³	Nil	---	IS 11255 (Part II) 1985
	ppm v/v	Nil		
	Kg/day	Nil		
NO _x	mg/Nm ³	116.1	350.0	IS 11255 (Part VII) 2005
	ppm v/v	61.7		
	Kg/day	207.84		
CO	mg/Nm ³	27.5	---	APHA Edition II-134
	ppm	24.0		
	Kg/day	49.23		

End

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TEST REPORT

No. GLH/W/0729/23

Date: 10/07/2023

Name of Company : **M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.**
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka – Panvel, Dist. – Raigad.

Type of Survey : Workplace Monitoring.

Date of Monitoring : 29th & 30th June 2023.

Instrument Used : Low Volume Air Samplers

The Air sampling was carried out in working zone at a distance of 1 meter in case of Area monitoring & at a height of 1.5 meter from the floor.

The permissible limits of exposure for Total dust as per second Schedule of Factories Act 1948, under the section of 41F as amended by Factories [Amended 1987] Act No. 20 of 1987 are as follows.

Standards are taken from OSHA [Occupational Safety and Health Administration] in coordination with Factory Act for Sampling as well as Analysis methods prescribed by them for workplace monitoring.

Sr. No.	Pollutants	8 hr. TWA Limit	Limit
01	Total Dust	10.0 mg/m ³	Factory Act
02	Respirable Dust	5.0 mg/m ³	OSHA
03	Methyl Alcohol	200 ppm	OSHA
04	Propyl Alcohol	200 ppm	OSHA
05	Phenol	19.0 mg/m ³	Factory Act
06	Ethylbenzene	100.0 ppm	OSHA
07	Styrene	100.0 ppm	OSHA
08	Toluene	375.0 mg/m ³	Factory Act
09	Xylene	435.0 mg/m ³	Factory Act
10	Aromatics	1.0 ppm	OSHA
11	Ethylene Glycol	25.0 ppm	OSHA
12	Propylene Glycol	0.05 ppm	OSHA
13	Non- Methane HC (Paraffin),	2.0 mg/m ³	OSHA
14	Acetone	1780.0 mg/m ³	Factory Act
15	Olefins	5.0 ppm	OSHA
16	Propene	100.0ppm	OSHA
17	Propylene	100.0ppm	OSHA



Cont....2/

Sr. No.	Pollutants	8 hr. TWA Limit	Limit
18	Ethane	Not Specified	----
19	Butane	1900.0 mg/m ³	Factory Act
20	Butene	250.0ppm	OSHA
21	Butyne	Not Specified	----
22	Butadiene	1000.0 ppm	OSHA
23	Isopropyl Alcohol (IPA)	400.0 ppm	OSHA
24	Di Isopropyl Ether (DIPE)	500.0 ppm	OSHA

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TEST REPORT

No. GLH/W/0729 - 01/23

Date: 10/07/2023

Name of Company : M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka - Panvel, Dist. - Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
01	29/06/2023	Near RPG Unloading Area	Total Dust	1.4	10.0 mg/m ³
			Respirable Dust	0.8	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	Not Detected	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

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TEST REPORT

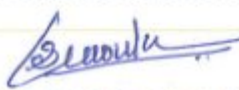
No. GLH/W/0729 - 02/23

Date: 10/07/2023

Name of Company : M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka - Panvel, Dist. - Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
02	29/06/2023	IPA DIPE / NPA Tank No. 4402A Area	Total Dust	1.7	10.0 mg/m ³
			Respirable Dust	0.9	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	Not Detected	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

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TEST REPORT

No. GLH/W/0729 - 03/23

Date: 10/07/2023

Name of Company : **M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.**
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka - Panvel, Dist. - Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
03	29/06/2023	IPA Near Field Operator Cabin Area	Total Dust	1.7	10.0 mg/m ³
			Respirable Dust	0.7	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	Not Detected	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

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TEST REPORT


No. GLH/W/0729 - 04/23

Date: 10/07/2023

Name of Company : M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka - Panvel, Dist. - Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
04	30/06/2023	RPG Pump (Transfer)	Total Dust	1.8	10.0 mg/m ³
			Respirable Dust	0.9	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	8.3	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]




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GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

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

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

TEST REPORT

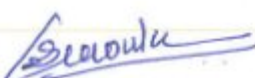
No. GLH/W/0729 - 05/23

Date: 10/07/2023

Name of Company : M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka – Panvel, Dist. – Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
05	30/06/2023	Near IPA Storage Tank Area	Total Dust	1.6	10.0 mg/m ³
			Respirable Dust	0.7	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	Not Detected	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
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TEST REPORT

No. GLH/W/0729 - 06/23

Date: 10/07/2023

Name of Company : M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka - Panvel, Dist. - Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
06	30/06/2023	Tank Farm, Methanol V - 601 Storage Tank Area	Total Dust	1.8	10.0 mg/m ³
			Respirable Dust	0.9	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	Not Detected	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

For GADARK LAB PVT. LTD.


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TEST REPORT

No. GLH/W/0432/23

Date: 10/04/2023

Name of Company : **M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.**
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka – Panvel, Dist. – Raigad.

Type of Survey : Workplace Monitoring.
Date of Monitoring : 25th & 30th March 2023.
Instrument Used : Low Volume Air Samplers

The Air sampling was carried out in working zone at a distance of 1 meter in case of Area monitoring & at a height of 1.5 meter from the floor.

The permissible limits of exposure for Total dust as per second Schedule of Factories Act 1948, under the section of 41F as amended by Factories [Amended 1987] Act No. 20 of 1987 are as follows.

Standards are taken from OSHA [Occupational Safety and Health Administration] in coordination with Factory Act for Sampling as well as Analysis methods prescribed by them for workplace monitoring.

Sr. No.	Pollutants	8 hr. TWA Limit	Limit
01	Total Dust	10.0 mg/m ³	Factory Act
02	Respirable Dust	5.0 mg/m ³	OSHA
03	Methyl Alcohol	200 ppm	OSHA
04	Propyl Alcohol	200 ppm	OSHA
05	Phenol	19.0 mg/m ³	Factory Act
06	Ethylbenzene	100.0 ppm	OSHA
07	Styrene	100.0 ppm	OSHA
08	Toluene	375.0 mg/m ³	Factory Act
09	Xylene	435.0 mg/m ³	Factory Act
10	Aromatics	1.0 ppm	OSHA
11	Ethylene Glycol	25.0 ppm	OSHA
12	Propylene Glycol	0.05 ppm	OSHA
13	Non- Methane HC (Paraffin),	2.0 mg/m ³	OSHA
14	Acetone	1780.0 mg/m ³	Factory Act
15	Olefins	5.0 ppm	OSHA
16	Propene	100.0ppm	OSHA
17	Propylene	100.0ppm	OSHA



Cont....2/

Sr. No.	Pollutants	8 hr. TWA Limit	Limit
18	Ethane	Not Specified	----
19	Butane	1900.0 mg/m ³	Factory Act
20	Butene	250.0ppm	OSHA
21	Butyne	Not Specified	----
22	Butadiene	1000.0 ppm	OSHA
23	Isopropyl Alcohol (IPA)	400.0 ppm	OSHA
24	Di Isopropyl Ether (DIPE)	500.0 ppm	OSHA

For GADARK LAB PVT. LTD.


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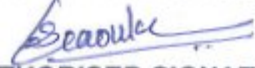
No. GLH/W/0432 - 01/23

Date: 10/04/2023

Name of Company : **M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.**
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka – Panvel, Dist. – Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
01	25/03/2023	Near RPG Unloading Area	Total Dust	2.1	10.0 mg/m ³
			Respirable Dust	1.1	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	Not Detected	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

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TEST REPORT

No. GLH/W/0432 - 02/23

Date: 10/04/2023

Name of Company : M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka - Panvel, Dist. - Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
02	25/03/2023	RPG Pump (Transfer)	Total Dust	2.2	10.0 mg/m ³
			Respirable Dust	1.2	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	Not Detected	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
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INDUSTRIAL ANALYSTS & CONSULTANTS

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

TEST REPORT


No. GLH/W/0432 - 03/23

Date: 10/04/2023

Name of Company : M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka - Panvel, Dist. - Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
03	25/03/2023	IPA DIPE / NPA Tank No. 4402A Area	Total Dust	2.9	10.0 mg/m ³
			Respirable Dust	1.4	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	Not Detected	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]




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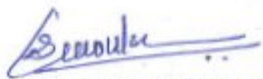
No. GLH/W/0432 - 04/23

Date: 10/04/2023

Name of Company : M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka - Panvel, Dist. - Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
04	30/03/2023	Near IPA Tank Area	Total Dust	2.7	10.0 mg/m ³
			Respirable Dust	1.2	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	8.3	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

For GADARK LAB PVT. LTD.


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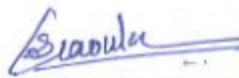
No. GLH/W/0432 - 05/23

Date: 10/04/2023

Name of Company : **M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.**
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka - Panvel, Dist. - Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
05	30/03/2023	Near Methanol Tank Area	Total Dust	2.8	10.0 mg/m ³
			Respirable Dust	1.7	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	Not Detected	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

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TEST REPORT

No. GLH/W/0432 - 06/23

Date: 10/04/2023

Name of Company : **M/s. Deepak Fertilisers and Petrochemicals Corporation Ltd.**
Plot K-1, K-2, K-3, K-4, K-5 and K-6, MIDC Taloja,
Taluka - Panvel, Dist. - Raigad.

Sr. No.	Date of Sampling	LOCATION	POLLUTANT	RESULT	LIMIT
06	30/03/2023	IPA, Near Field Operator Cabin Area	Total Dust	2.3	10.0 mg/m ³
			Respirable Dust	0.8	5.0 mg/m ³
			Methyl Alcohol	Not Detected	200 ppm
			Propyl Alcohol	Not Detected	200 ppm
			Phenol	Not Detected	19.0 mg/m ³
			Ethylbenzene	Not Detected	100.0 ppm
			Styrene	Not Detected	100.0 ppm
			Toluene	Not Detected	375.0 mg/m ³
			Xylene	Not Detected	435.0 mg/m ³
			Aromatics	Not Detected	1.0 ppm
			Ethylene Glycol	Not Detected	25.0 ppm
			Propylene Glycol	Not Detected	0.05 ppm
			Non - Methane HC (Paraffin)	Not Detected	2.0 mg/m ³
			Acetone	Not Detected	1780.0 mg/m ³
			Olefins	Not Detected	5.0 ppm
			Propene	Not Detected	100.0ppm
			Propylene	Not Detected	100.0ppm
			Ethane	Not Detected	Not Specified
			Butane	Not Detected	1900.0 mg/m ³
			Butene	Not Detected	250.0ppm
			Butyne	Not Detected	Not Specified
			Butadiene	Not Detected	1000.0 ppm
			Isopropyl Alcohol (IPA)	Not Detected	400.0 ppm
			Di Isopropyl Ether (DIPE)	Not Detected	500.0 ppm

For GADARK LAB PVT. LTD.


AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]



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DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED



SMARTCHEM
TECHNOLOGIES
LIMITED



Deepak Fertilizers and Petrochemicals Corporation Ltd, Smartchem Technologies Limited Taloja Performance Chemiserve Limited CSR Report 2023-2024 Half Yearly

VISION

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

MISSION

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

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

Introduction:

As a true corporate citizen, DFPCL and STL are committed to social thought and action and is resolute in its dedication to serve the society they live in. The Companies have been engaged in community work through **Ishanya Foundation** at Taloja and Pune in Maharashtra.

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

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

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

Wadi Project

- Horticulture Plantation (Mango)
- Promotion of Vegetables crops
- Promotion of Floriculture
- Health
- Farmers Capacity Building

Dairy Development Project

- Cattle Induction
- Door-step health services for cattle
- Artificial Insemination
- Fodder Development
- Vaccination
- Farmers Capacity Building

Vocational Skill Development Project

- Sponsorship to Diploma in ophthalmology Students
- Tailoring Training
- Soft skill training

Aarogyam Project

- Mobile Medicine Unit
- Eye camp
- Infrastructure Development for Health facility/ Health Centres
- Pathology lab

Gyanam Project

- Infrastructure development for School
- Digitization of School Classrooms
- Create Facility

Livelihood Enhancement Through Entrepreneurship Development (LEED)

- Yellow Ribbon NGO & Artisan Fair
- Muskan
- Support for Income Generation Activity

Community Development And Social Welfare Project

- Infrastructure development and Need based activity.
- 100 LPH RO unit installation for Kanpoli and Pale Kh Village
- Open Gym at Chincholi

Wadi Project

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

- To provide secondary sustainable source of income
- To increase the asset base of the tribals & other
- To empower of women through economic and social development
- To improve the health status of the community
- To improve environment through carbon fixation.

Project Activities:

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

Objectives are highlighted below:

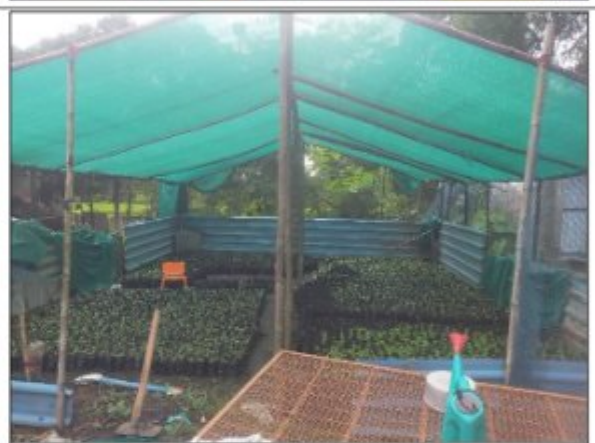
- Mobilization of community through project promotional meetings and exposure.
- Selection of beneficiaries and land
- Plantation of fruit and forestry trees.
- Development of eroded wasteland through soil and water conservation.
- Water resource development and water conveyance
- Cultivation of suitable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

Empowerment:

- Training to existing women's groups
- Wadi on women's name
- Exposure

Major Achievements:

Sr. N.	Activity	Unit	HY-Achi	Remarks
A	Horticulture Plantation			
1	Gap filling and Aftercare activities: Basin preparation, weeding, Staking, Plant sanitation, Pruning, irrigation, Collect Mango graft demand.	No. of wadi	172	Plantation of 1500 Mango Grafts - (Variety-Keshar) with 172 wadi participants. Survival rate of Wadi Plantations is 99 % for 2022-23 up to the end of this quarter.
2	Plant Protection (Batch VI to VII)		135	Provided Fungicide and pesticide to participants from B-VI and B-VII.
3	Plant Nutrition (Batch VI to VII)		135	Provided NPK and Micronutrient to participants from B-V, VI and VII.
5	Vegetable Cultivation (Batch VII)	No. of Aspirants	78	Provided vegetable seed to 78 Wadi participants. All participants completed seed sowing.
B	Development of Model /Trial Plot			
1	High Density Mango Wadi- 5R Spacing- 12' x 9' ft. Plant Population: - 50 with WRD support	Lums um	1	•Plantation done as per Plan
2	Trai plot Fruits: Existing Demo plot gap filling Apple-2, Pineapple-2, Avocado-2, Cashew-3	Nos. of Plots	7	Gap filling for 7 plots done
3	Support for Vegetable Nursery (Plastic tray & Seed support)	Nos.	5	In 5 Nursery total 18600 no's of seedlings are prepared in the tray
4	Support for Mango Graft Nursery- 08 Nos (10000 grafts)	Nos	8	Total 6600 no's of Grafting done with 8 participants
C	Capacity Building			
1	External Exposure of Wadi & Nursery participants	Nos	1	Exposure visit conducted at BAIF-Gujrat for Mango Graft Nursery Training (6 participants & 1 Staff Participated)
2	Farmers internal exposure visits towards established wadi/Nursery (progressive farmer)	Nos	4	For management practices of wadi.
3	Kisan Mela	Nos	1	Conducted Kisan Melava for Wadi Aspirants at Kombadtekadi Village. No. of attend: M -46, F - 32



WADI PROJECT

Case study



ISHANYA
FOUNDATION

Project: Wadi Project_Horticulture Plantation

Year of Participation: 2015

Name of Aspirant: Mrs. Kalibai, Mr. Sharvan Manglya Bhagat
Village : Khairwadi, Taluka: Panvel, District: Raigad
Family Profile : Kalibai and Shravan have One son. Shravan is working at Taloja MIDC on temporary basis. Livelihood of the family is dependent on Agriculture and allied activity. Earlier he was cultivating paddy on the same field where wadi planted. After wadi intervention, he has started getting additional income by cultivation of vegetables and mango plants also. Now income of the farmer from the same land has been increased three to four times more than the earlier. Wadi is the additional source of income.

Land: 1.5 Acre



Mango	No. of Fruiting Plants	Total Yield	Sold in the Market	Home Consumption	Total Income for sale of Mango
	23	490 Kg	450 Kg	40 Kg	Rs.49000.00

Dairy Development Project

Dairy is an important subsidiary source of income for small/marginal and agricultural labourers in rural area. The manure from animals provides good source of organic matter to improve soil fertility and crop yield. The surplus fodder and agricultural by products are gainfully utilized for feeding the animals. Since agriculture is mostly seasonal, there is possibility of finding employment throughout year for many women through dairy farming. Thus, dairy also provides employment throughout the year.

This rural initiative addresses small / marginalized / landless farmers and labourers and aims to enhance dairy farming productivity. Aspirants for this project are selected with due diligence based on set criteria.

- Eligible women of farmer's household are supported with cow
- Provides an opportunity for the farmers to earn about Rs.8,000/- to 12,000/- per month through the sale of milk and cow dung.
- Assistance in the development of fodder plots
- Doorstep services of artificial insemination followed by pregnancy diagnosis of cows and buffaloes.

Major Achievements:

S. N.	Activity	Unit	HY-Achi	Remarks
A	Support for Dairy Enterprise			
1	Purchase of Cows	No. cattle	5	Support given for purchase of 5 cows.
2	Lumpy Vaccination	No. of Cattles	377	377 animals vaccinated for Lumpy Skin Disease vaccine.
4	Support for Calf Grower- 50 kg/Bag – on 50 % Grant	No. of Bag	100	Distributed Calf Grower to 100 Calves.
5	Artificial Insemination	No. of AI	399	PD-178/153 (CPD-72; Empty-14; Repeat - 67 & Pending-25=178), Calving-97 (M-52 & F-45)
B	Capacity Building			
1	Training on livestock management to each new cow batch (5 Aspirants/batch)	Nos.	1	Conducted one training
2	Expert Visit to critical cows	No. of Visit	1	Veterinary Expert visit organized for further guidance to the dairy participants.
3	Internal Exposure		2	Conducted Exposure visit at Ideal Dairy Farm
4	External Exposure	Nos.	1	
C	Fodder Development			
1	Napier Grass	No. of Plots	4	Developed 4 Plots
2	Azolla		3	Developed 4 Demo

Milk Report (Cow + Calf 1st Generation)

For Half Year 2023-2024

Sr. No.	Particulars	Cow Milk (Lit.)	Milk Yield Calf (1st Generation.) (Lit.)	Total Milk (Liters)
A	Milk Production			
1	Milk Consumed at home	22060	9505	31565
2	Milk Consumed by Calf	17380	9855	27235
3	Milk sold in the Market	118740	43020	161760
	Total Milk Production	158180	62380	220560
	Additional Income through sale of Milk _ Rs	5405790	1922700	7328490



Dairy Development Project Case Study

Year of Participation : 2015 -16,

Name of Participant : Mrs. Gita Sachin Patil, Mr. Sachin Suresh Patil
Village : Nere, Tahuka: Panvel. District : Raigad

Family Profile : Mrs. Gita and Sachin have 2 Childrens (Sanket-11(5th class), Samiksha - (3rd class) both are in education. Sachin is marginal farmer. He was not getting sufficient income from crop like paddy & vegetables, so it was difficult to fulfil the family requirements and children's education also. He came to know about IsFon Dairy project and started dairy business. Now couple is getting regular income from dairy enterprise. In the absence of Sachin , Gita is taking care of dairy business, so dairy become an additional source of income to the family. Income from dairy business couple have been able to continue Children's Education and They build new dairy shed also.

Land: 30 R



Support Given	Asset Created	Average Milk per Day	Rate of Milk	Income perDay
01 Cow; B-31, Medicine Kit; Training; Exposure .	3 Female calf (Rs. 80000)	30	50	1500

Vocational Skill Development Programme:

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

Major Achievements:

Sr. N.	Activity	Unit	HY-Achi	Remarks
1	Sponsorship for BSc. Optometry (Laxmi College of Optometry, Panvel)- IIInd Yr-01 +IIIrd Yr- 03	No. of Students	4	Supported to four students Rs.2.72 Lakh.
2	Tailoring Course Pale Kh. Centre	Nos of Aspirants	53	<ul style="list-style-type: none"> 17 Aspirants Completed Course 23 Aspirants Drop Out 13 aspirant's ongoing course

Vocational Skills Development Project (VSDP)



Meeting with Sponsored Student, Parents & LCO Staff

Aarogyam Project:

IsFon aims to improve the health status and thereby develop a healthy society by improving quality of life of the vulnerable populations in and around Pune city and the villages of Taloja MIDC through preventive health care services. This holistic health objective is woven around proactive diagnosis and care with the following objectives:

- To assess and diagnose the health needs of individuals, families and communities as well as providing comprehensive care
- To provide qualitative, preventive and curative health care to the community
- To provide doorstep healthcare services through Mobile Clinic
- Increase the focus on health promotion and prevention, screening and early intervention
- To improve access to health care services
- Reduce medical expenses and early detection of diseases of the needy through early diagnosis
- To conduct health awareness programs
- Support during the pandemic

Major Achievements:

S. N.	Activity	Unit	HY-Achi	Remarks
1	Mobile Clinic	Nos. Patients	6735	Doorstep health services provided to 6735 patients through mobile clinic from 21+ villages in and around Taloja MIDC.
2	Eye Check Up Camp	Nos	3	Total 578 patients examined. Out of that 166 patients have been detected having cataract and 254 detected having vision problem.
i	Cataract Surgery	Nos	122	122 Patients Cataract surgeries have been done.
ii	Spectacle Distribution	Nos	254	Spectacle distributed to 254 patients.
iv	School Screening camp for Eye Check up	Nos	3	Camps Organized at RZP School Wavanje, Pale Kh, Chindran, Tal. Panvel. In this camp total 832 Students examined and 34 found vision problem.
3	Medical tools & Equipment to PHU Valap	Nos	1	Suction Machine Noiseless SS-01 no, Stethoscope-2 no, Mercury blood pressure apparatus-02 nos, Digital hemoglobin monitor-01 no, OBSTERIC LABOR TABLE FULLY SS(Delivery Table) Head HI/LO on screw mechanism, Back rest adjustable. on ratchet, Foot end sliding (telescopic action). with SS bowl, SS lithotomy bar and rexine belt-01 nos
4	Food Kit Support for TB Patients in Taloja	Nos	200	Two-time food kit given to 200 patients and third kit will be given in the month of Nov 23.
5	Dental Checkup Camp	Nos	01	One Dental camps has been conducted collaboration with MGM DCH Kamothe at Pale kh village.

Aarogyam Project Free Cataract Surgery _ CSR



Name of Aspirant: Mrs. Barkubai Balaram Patil , Age: 50

Village : Siddhi Karavale , Taluka: Panvel. District: Raigad

Aadhaar No: 448535250668 **Mobile No:** 9324824374

Source of Income: Working on Daily wages

Family Profile : Mrs. Barkubai is housewife her husband is working as labor on daily wages in the village and Taloja MIDC as per availability of work. Mrs. Barkubai have one son Bhavesh studying in 12th class. Earlier Mrs. Barkubai helping to husband in the daily housework but due to low vision she could not to do comfortably. She came to know information about cataract surgery conducted by "Ishanya Foundation" Pale kh through Eye Check up at Pale kh. After preliminary examination by Doctor, she has referred to Laxmi Charitable Trust for further detail examination and treatment. As per examination he has operated and done Cataract Surgery of both Eyes. Now she has getting clear vision by both eyes and able to manage daily work.



Nos. of Family Members	Date of Cataract Surgery	Cataract Surgery Eye	Surgery Hospital
03	8 th & 17 th May 2023	Both Eyes	Laxmi Charitable Trust, Panvel



Gyanam Project:

The root of development of any child and our society is good quality education in schools with overall development and conducive environment. Majority of the schools in the villages wherever the presence of DFPCL exists lack the basic infrastructure facilities & digitalization. Improvement/Upgradation of the school infrastructure, educational tools and sport equipment will improve the environment of school more conducive for students.

The two-pronged goal comprises of:

1. Creating a better school learning environment through various interventions
2. Improving the overall quality of education

Major Achievements:

Sr. N.	Activity	Unit	HY-Achi	Remarks
1	Digital Class set	No. of Set	02	Installed at 1 RZP School around Taloja MIDC
2	STEM learning Lab-Sanjay Gandhi Smarak High School Kolvadi & Tondre	Nos.	1	Installed 80 set
3	Set of 01 Desktop Computer and 01 Printer for RZP School- Navde, Devichapada,	Nos.	3	Donated Desktop Computer and Printer to RZP Schools form Navde, Devichapada Village.
4	Water purifier and Water storage facility with distribution system: RZP School Pendhar-1	Nos.	1	Installed Water purifier and Water cooler at RZP School Pendhar Village.
5	RO Plant 250 LPH for Nere High School, Nere and Vaje High School Vaje/ Ritghar with installation, plumbing etc.	Nos.	2	Completed work as per Plan



Livelihood Enhancement through Entrepreneurship Development (LEED)

Although several aspirants dream of having their own business or expanding their existing business, they face many stumbling blocks and find it challenging to do so due to poor entrepreneurial capabilities, unavailability of information and access to markets as well as lack of finances to purchase related equipment's. This adversely affects their socio-economic conditions.

Our Entrepreneurship program offers them help to start and expand a business idea. The programme seeks to enhance skills and knowledge to empower entrepreneurs run small businesses through various initiatives.

- High-end sewing machines were given to beneficiaries to help them stitch faster with good finishing.
- Support of parlor chairs and two-in-one steamer were given to the beneficiaries to help them to start their own parlor.
- Hand carts were given to small vegetable and fruit vendors who were selling on the streets to start their own business.

Major Achievements:

Sr. N.	Activity	Unit	HY-Achi	Remarks
1	Support to Individuals towards Enhancing Entrepreneurship	Nos	21	Provided various types of tools and equipment for strengthening their existing businesses.



Livelihood Enhancement through Entrepreneurship Development (LEED) _ Case Study



Project: LEED_ Support for Beauty Parlor shop Tools and Equipment

Support Year: 2022-23

Name of Aspirant: Mrs. Sadhana Videsh Tembhe
Village : Chindran. Tahuka: Panvel, District: Raigad.
Support of Beauty Parlor instruments : Beauty Parlor Chair - 01, Beauty Hairdressing Rolling Trolley Cart - 01, H & C Steamer - 01, Makeup vanity bag - 01, Straightener - 01 No's
Support Amount : Rs.25,252/- (Rs.20,000/- grant form IsFon)

Family Profile : Mrs. Sadhana has its own Beauty parlor Shop at Chindran Fata village. Earlier she was using old-style chair, and she don't have equipment's such as trimmer and massage machine. So, most of the young girls are going to other villages for Makeup and Massage. After Ishanya Foundation Intervention more customers started to coming in the shop. This change leads to increase no of costumer per day.

Land: landless
Before interventions daily income: 150 rupees
After interventions daily income : 350 rupees



Livelihood Enhancement through Entrepreneurship Development (LEED) _ Case Study



Project: LEED_ Support for Tapari

Support Year: 2022-23

Name of Aspirant: Mrs. Anjali Arun Disale
Village : Chinchavali Tahuka: Panvel, District: Raigad.
Support of: Still Shop / Tapari
Support Amount : Rs.33000/- (Rs.20,000/- grant form IsFon)

Family Profile : Smt. Anjali has their shop at roadside of Chinchavali village. Earlier she has temporary old wooden shop, in this premises it was difficult to run business in rainy season and store material at this location. After Ishanya Foundation Intervention Create own asset of Rs.33000/-. It will be an additional source of income. Due to more facility available with, more customers will be attracted. Which will increase income of the family. This change leads to increase no of products and income per day.

Land: landless
Before interventions daily income: 150 rupees
After interventions daily income : 300 rupees





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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/23/04/71	Test Report Date	11/04/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	04/04/2023
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 11:10 HRS.	NIGHT TIME 22:40 HRS.
01	Near Methanol Gate Area	63.3	56.6
02	Near IPA gate Area	64.6	60.9
03	Near WNA III Area	72.7	67.8
04	Near GT - II Area	73.0	67.0
05	Near Utility Area	73.2	68.2
06	Near Time Office Area	61.4	58.2
07	Near Store Area	58.6	54.6
08	Near Acid Tank Area	62.7	56.9
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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TEST REPORT

Doc.No : GLPL/QF/7.8/05

Test Report No.	GA/DF/04134/23	Test Report Date	26/04/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

NOISE LEVEL MEASUREMENT :

Date of Measurement	21/04/2023
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	Sampling Location	Time of Measurement	Average Noise Level Measurement in dB(A)
	0.5 Meter Away from D.G. Set	(Hrs.)	Acoustic Door Closed
1	Near IPA Plant D. G. Set (200 KVA)	14:35	73.2
2	Near Methanol Plant D. G. Set (1000 KVA)	12:20	74.3
3	D. G. Set (20 KVA)	16:00	70.1

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/04

Test Report No.	GA/23/08/169	Test Report Date	23/08/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	16/08/2023
Test Method	IS 9989 Year 1981

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 11:00 HRS.	NIGHT TIME 22:35 HRS.
01	Near Methanol Gate Area	63.2	58.2
02	Near IPA gate Area	69.9	68.0
03	Near WNA III Area	73.0	69.1
04	Near GT - II Area	71.6	68.5
05	Near Utility Area	73.8	68.2
06	Near Time Office Area	59.4	53.9
07	Near Store Area	57.3	52.8
08	Near Acid Tank Area	64.2	56.8
09	K-6 Plant - Near Main Gate	60.6	53.7
M.P.C.B. LIMITS		75.0	70.0

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/04

Test Report No.	GA/23/07/153	Test Report Date	17/07/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	10/07/2023
Test Method	IS 9989 Year 1981

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 11:15 HRS.	NIGHT TIME 22:35 HRS.
01	Near Methanol Gate Area	61.7	56.2
02	Near IPA gate Area	72.6	68.2
03	Near WNA III Area	74.1	67.3
04	Near GT - II Area	71.6	68.2
05	Near Utility Area	73.8	69.3
06	Near Time Office Area	62.3	55.8
07	Near Store Area	58.7	53.9
08	Near Acid Tank Area	64.2	54.5
09	K-6 Plant - Near Main Gate	58.1	52.6
M.P.C.B. LIMITS		75.0	70.0

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/04

Test Report No.	GA/23/06/205	Test Report Date	22/06/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	14/06/2023
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 10:40 HRS.	NIGHT TIME 22:50 HRS.
01	Near Methanol Gate Area	61.6	56.0
02	Near IPA gate Area	70.3	68.3
03	Near WNA III Area	72.8	67.6
04	Near GT - II Area	73.0	68.1
05	Near Utility Area	73.6	69.0
06	Near Time Office Area	61.0	54.8
07	Near Store Area	58.2	54.3
08	Near Acid Tank Area	64.2	56.5
09	K-6 Plant - Near Main Gate	55.8	52.9
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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/23/05/19	Test Report Date	09/05/2023
Customer Name and Address	M/S. DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LTD. PLOT K-1, PART-1, K-2, K-3, K-4, K-5 & K-6, MIDC TALOJA, TALUKA - PANVEL, DIST. - RAIGAD.		
P.O. No. / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	02/05/2023
Test Method	GLPL/SOP/AA/17:2014

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 11:40 HRS.	NIGHT TIME 22:35 HRS.
01	Near Methanol Gate Area	65.2	56.6
02	Near IPA gate Area	70.6	68.0
03	Near WNA III Area	72.3	69.3
04	Near GT - II Area	71.8	68.4
05	Near Utility Area	73.4	69.1
06	Near Time Office Area	60.2	58.3
07	Near Store Area	57.9	54.1
08	Near Acid Tank Area	64.5	55.8
09	K-6 Plant - Near Main Gate	58.2	52.7
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

CHECKED BY

Note :

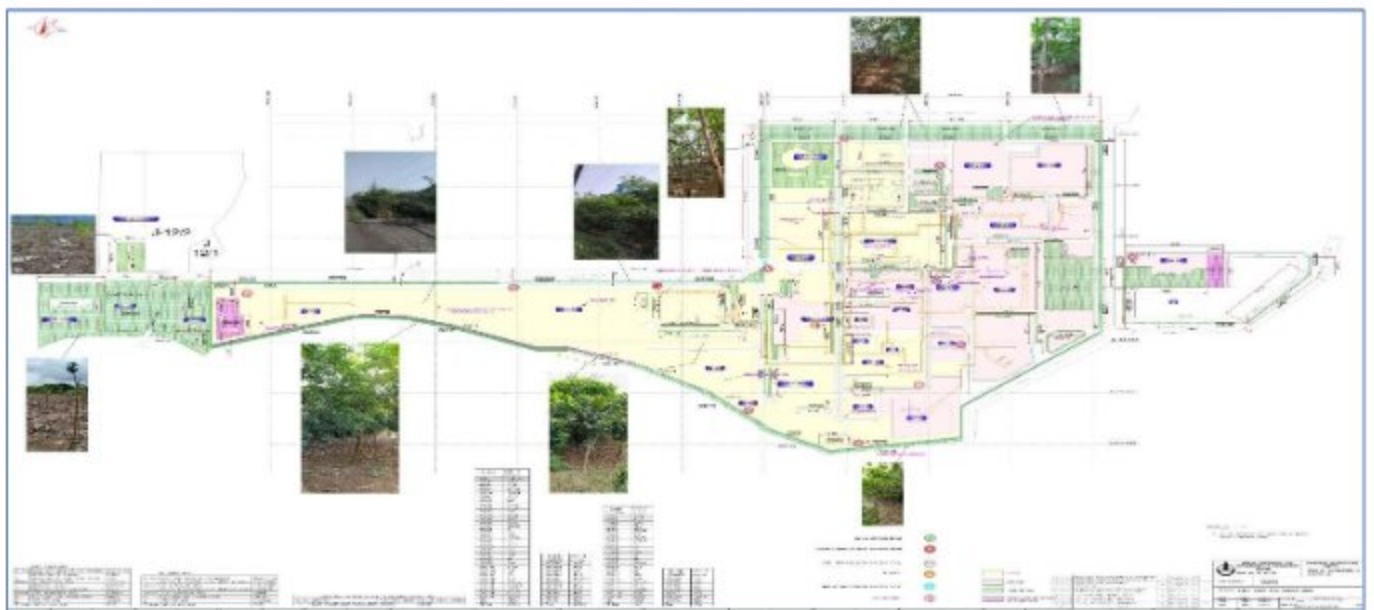
1. The results relate only to the samples tested.
2. Test Report shall not be reproduced except in full, without written approval of the laboratory.
3. Test Results relate only to the conditions prevailing at the time of sampling.
4. Customer complaint register is available at laboratory.

Green Belt statement development :

EC Condition No.3 (xiv) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species & in consultation with the local DFO / Agriculture Dept.

Compliance : Complied. 33.14 % of plot area is developed as Green belt.

Details of Green belt			
S.N.	Details	UOM	Area
1	Total Plot area	Sqm	135420
	Total green Belt (Inside)	Sqm	27056.63
	Total green Belt (Peripheral)	Sqm	17809.21
2	Total Green Belt	Sqm	44866
3	% of green belt on plot area	%	33.13



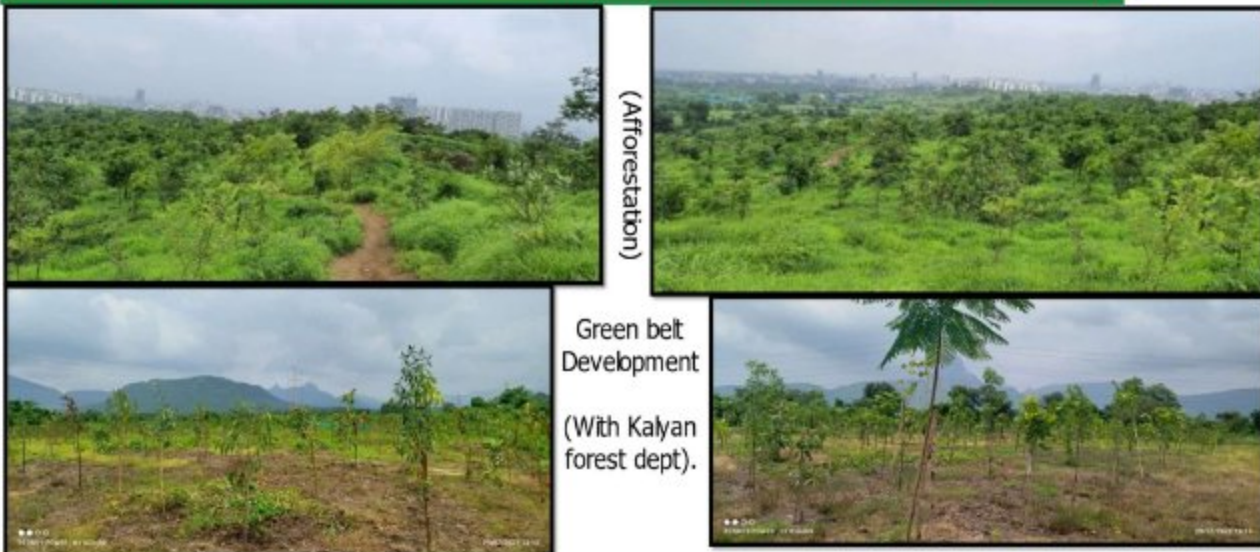
Green belt peripheral of the factory premises :



4.Green belt inside the factory premises :



Green belt additional land (Afforestation & Green belt Development):



- M/s A K Rural Development trust has been engaged to plant 22220 trees (20 HA) and maintain them for 7 years with total PO value of Rs. 1.82 crores (PlantatioRs. 0.33 Cr, MaintenanceRs. 1.49 Cr). The project agreement is valid from 27th June,2017 to 26th June,2024. It is located at Dhavdi village.

MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION
(A Government of Maharashtra Undertaking)

Possession Receipt

I, ~~Avinash M.Madi~~ Surveyor on behalf of Maharashtra Industrial Development Corporation and ~~Shri. Naris Shivastav~~ on behalf of M/s Deepak Fertilisers & Petrochemicals Corporation Ltd. have this day respectively handed over and taken over the Advance possession of Plot No. 06-13/1 admeasuring area 1350.00 Sq.Mtr. of the Talaja Industrial Area Village TONDAIRE, Tal-PANVEL, District-RAGDAD after actual measurement and demarcation of the plot on the site (Actual Possession Date treated As 12/07/2011) At Per Office latter No.MIDC/RO/PanvelD-91628.Ds.06.07/2521).

Place - Talaja Industrial Area Date: 12/07/2011

Handed over by  Taken over by 


(Avinash M.Madi)
Surveyor, Regional Office MIDC/PANVEL
(Signature of the officer with designation)


Signature of the representative of the transferee

[illegible]

OC



DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED

DFPCL-K-1/EHS/DISH/22-23/08

31-march-23

The Jt. Director,
Directorate of Industrial Safety and Health,
6th floor, Kokan Bhavan
CBD, Belapur-400614

Subject: Submission of Mock drill Report at Admin Building of K-1-K-5 DFPCL.

Respected Sir,


We are submitting herewith the report of Mock drill, which was conducted on 17-Jan-23 at Admin Building of K-1-K-5 DFPCL, at 10:05 hrs. for information and record. Scenario was Terrorist attack in company premises.


Please acknowledge receipt of the same.


Thanking you,

Yours Truly,

For Deepak Fertilizers & Petrochemicals Corp. Ltd.,


D. S. Pande
Head EHS
Encl: Mock drill Report.


31/3/2023
कार्यालय - सह संचालक, औद्योगिक सुरक्षा व
आरोप्य संचालनालय, रायगड
कोकण भवन (विस्तारित कक्ष)
पोली क्र. ५२२, ५ वा मजला,
खिवडी बेलपूर, नवी मुंबई - ४००६१४

	Check List	Mock Drill Reporting Format	Prepared by:	Checked by:	Approved by:
	Check List No.	EHS/Safety/SOP-03/F-01	Sr.Mgr. EHS	Head-Safety	Head-EHS
	Unit	DFPCL & STL K1-K6	Version No	2	06-07-2022
			Revision No	0	06-07-2022

Report on On-site Emergency Mock drill (Level-II)

1.0	Date of Mock drill	17.01.2023
2.0	Time of Mock Drill	10:05 Hrs.
3.0	Location of Incident	Admin Building Conference Hall, First Floor
4.0	Type of emergency / Scenario	Terrorist attack in company premises
5.0	Details of Members involved in Mock Drill	1. Mr.Late - PSI (Chief Emergency Controller) 2. Mr. Ravindra Bhati (Site Incident controller) 3. Mr.Dinesh Pratap Singh (Unit Head) Mr.Satish Desai (Head-HR) 4. Mr. Deepak Pande (Head-EHS)
6.0	Details of Observers involved in Fire Call	External Govt Officials from Police dept.

Communication and Action

Sr. No.	Time Hrs.	Actions taken	Observation / Comment
---------	-----------	---------------	-----------------------

I) Action by Primary observer:


1	10:05 Hrs	Primary observer , observed 02 terrorist entering in the company premises through main gate and they attack on every one seen at main gate and approaches towards Admin bldg.	
2	10:05 Hrs	Information given to Security control room	

II) Action by control room: Security

1	10:08 Hrs.	Informed to Emergency control room.	
		Informed to Security Head	
		Informed to Unit Head	
2	10:09 Hrs	Informed to Head HR	
3		Informed to Head EHS	
5		Information given to Navi Mumbai police Control Room.	
5	10:33 Hrs	Control Room Officer Mr. Jaikar received the call and assure to send police team at DFPCL site.	

III) Action at Field:

1	10:09 Hrs	Terrorist hostage 04 Nos. of company employee working at Admin Bldg. First floor and take them to conference hall where from they started to communicate with security control room.	
2	10:56 Hrs	04 Policeman enters inside plant with weapons and gather information from security officer at main gate.	
3	10:57 Hrs	Another 04 Police commando enters inside plant with weapons and started combat operation from main gate to Admin Bldg.	
4	10:59 Hrs	02 police commando fixed their position on plant entry gate near OHC.	
5	11:20 Hrs	03 another police commando enters in the plant	
6	11:38 Hrs	06 Police commando and 03 signal police person enters inside plant.	
7	12:17 Hrs	Dog Scot with 03 Dogs enters inside plant and start searching operation.	

	Check List	Mock Drill Reporting Format	Prepared by:	Checked by:	Approved by:
	Check List No.	EHS/Safety/SOP-03/F-01	Sr.Mgr. EHS	Head-Safety	Head-EHS
			Version No	2	06-07-2022

IV) Action by Site Incident Controller (SIC):

1		Informed to Emergency control room.
3	10:08 Hrs.	Informed to Head EHS
		Informed to Head HR
4		Was in continuous communication with DFPC senior officials
5	10:15 Hrs	Information given to Navi Mumbai police Control Room.

V) Action by Chief Emergency Controller (CEC):

1	10:09 Hrs	Information received from Security control room
2	10:10 Hrs	Instructed to security staff to stay alert , provided necessary support to security dept.
3	10:13 Hrs	Was in communication with Site incident controller & outside responders

VI) Action by Fire crew / Fire shift In Charge:-

1	10:08 Hrs	Information received from Security control room.
2	10:10 Hrs	Fire crew kept alert at Emergency control centre.

VII) Action by HR Head:-

1	10:09 Hrs	Information received from Security control room.
2	10:10 Hrs	Continuously taken feedback from security control room, provided necessary support for emergency communication.

VIII) Action by Security shift In charge:-

1		Refer - Action by security control room
---	--	---

IX) Action by Male Nurse / FMO (OHC Team):-

1	10:09 Hrs	Information received from Security control room.
2	10:10 Hrs	Staff kept alert at OHC

X) Action to reduce the Environmental Impact:-

1	NA
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8.0 COMMENT ON RESOURCES:-

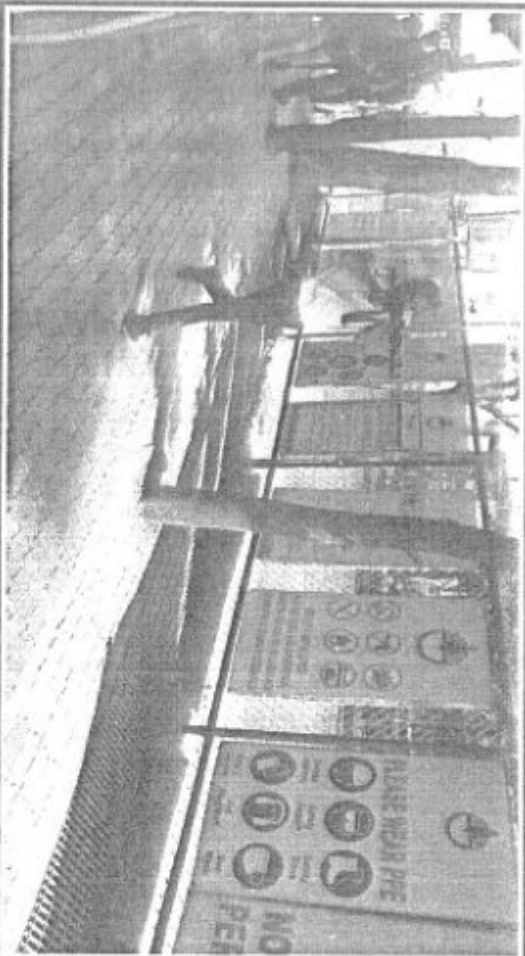
1	Resources for the scenario found adequate.
---	--

9.0 POSITIVE POINTS / SHORT COMING OF THE DRILL:-

	Positive Points
1	Role played by all action owners as the requirement of mitigation plan
2	Prompt & quick actions initiated by security staff
	Short coming
1	Workers found roaming during security threats/ Terrorist attack

10.0 RECOMMENDATIONS:

S.N.	Recommendations:	Responsibility	Target Date
1	Awareness session to be imparted to security guards for security threat - contractor / employees movement in area	Mr. R Bhati	20.02.23
1	Name of the Site Incident controller	Mr. Ravindra Bhati	
	Signature of the Site Incident controller		
2	Name of the Chief Emergency Controller	Mr. Deepak Pande	
	Sign of the Chief Emergency controller		



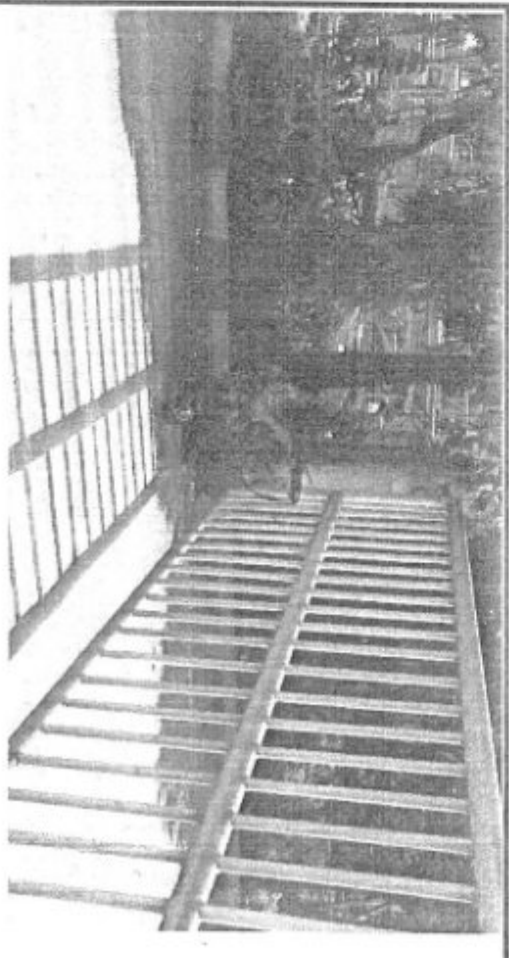
Terrorist Entered into the Factory premises



Terrorist Entered into the Factory premises



Commando entered into the Factory premises



Positions taken at several locations of the factory premises

OC



DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED

DFPCL-K-6/EHS/DISH/22-23/06

31-march-23

The Jt. Director,
Directorate of Industrial Safety and Health,
6th floor, Kokan Bhavan
CBD, Belapur-400614

Subject: Submission of Mock drill Report at K-6 unit DFPCL.

Respected Sir,


We are submitting herewith the report of Mock drill, which was conducted on 14-march-23 at Drumming plant of K-6 DFPCL, at 11:43 hrs. for information and record. Scenario was Fire on Diesel generator set.


Please acknowledge receipt of the same.


Thanking you,

Yours Truly,

For Deepak Fertilizers & Petrochemicals Corp. Ltd.,


D. S. Pande
Head EHS
Encl: Mock drill Report.

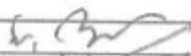
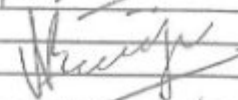

31/3/2023
कार्यालय - सह संचालक, औद्योगिक सुरक्षा व
आरोग्य संचालनालय, लवंगड
कोटे मदन (विस्तारित कक्ष)
खोली क्र. ५२२, ५ वा मजला,
सीबीडी बेलपूर, नवी मुंबई - ४००६१४

	Check List	Mock Drill Reporting Format	Prepared by:	Checked by:	Approved by:
	Check List	EHS/Safety/SOP-03/F-01	Sr.Mgr. EHS	Head-Safety	Head-EHS
	Unit	DFPCL K-1 -K-5 & K6	Version No Revision No	2 0	06-07-2022

1.0	Date of Mock drill	14.03.2023
2.0	Time of Mock Drill	11:43 Hrs.
3.0	Location of Incident / Mock drill	K-6 (Drumming Plant)
4.0	Type of emergency / Scenario	Fire on Diesel Generator Set
5.0	Details of Members involved in Mock drill:	1. Mr.Suraj Palande / Avinash Bogar (Incident controller) 2. Mr. Priyesh Patil (Emergency team leader) 3. Mr. Pawan (Primary Observer) 4. Mr. Subhash Rana (Sec)
6.0	Observer's Location	1. Incident Site (Mr. Pradip Tandel) 2. Adjacent control room (Mr.Anil Kadam)
7.0	Communication and Action	

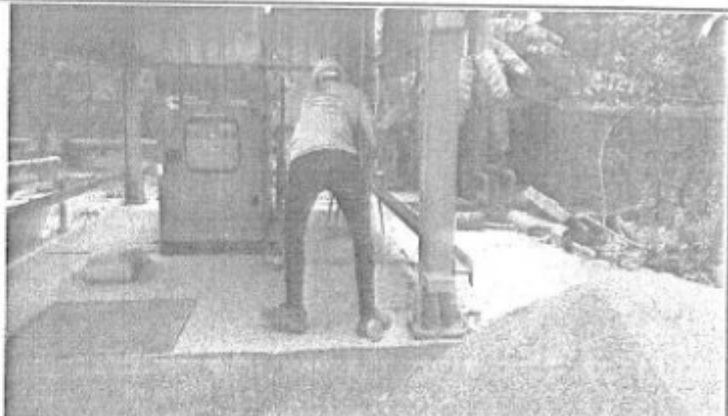
Sr. No.	Time Hrs.		Actions taken	Observation / Comment
I) Action by Primary observer:				
1	11:43 Hrs		Observed fire on DG Set , informed to S/I	
2			Primary observer tried to extuigwish the fire with fire extinguisher	
3			Informed about wind direction	
II) Action by control room:				
1	11:43 Hrs		Mr. Suraj Palande IPA Drummng shift incharge conveyed emergency message to fire department, Plant In-charge and IPA control room.	
2			He directed security for evacuation siren	
III) Action at Field:				
1	11:45 Hrs		IPA Drummng Shift incharge arrived at site. .	
2	11:48 Hrs		Fire & OHC crew along with Fire tender, fire jeep and ambulance arrived at incident site.	
3	11:50 Hrs		K6 Evacuation Siren blown to evacuate the people working in the area . Checked for any casualty at site , guided people for safe evacuation from the site.Applied AR-AFFF foam to control the DG fire & mayura curtain to control the spread of Fire .	
4	11:57 Hrs		Emergency brought under control.All clear Siren blown afetr normalisation of the emergency.	
IV) Action by Site Incident Controller (SIC):				
1	11:45 Hrs		Incident controller/SI arrive at site	
2	11:48 Hrs		Guided fire team to control the DG set Fire.Made contineous communication with CEC.Information given to electrica dept.	
			Mr Bogar - Plant Manager arrived taken over role of SIC.	

3	11:57 Hrs		Emergency brought under control.	
V) Action by Chief Emergency Controller (CEC):				
1	11:50 Hrs		Information received from Drumming S/I about the emergency.	
			Security officer based on the site information communcated to UH, GH & Site EHS Head about the emergency control.	
2	11:50 Hrs		Continuously taking feedback from the incident controller about the emergency situation. Ensure for no any casualty at incident site.	
3	11:57 Hrs		Emergency brought under control.	
VI) Action by Fire crew / Fire shift In Charge:-				
1	11:43 Hrs		On receipt of the message about emergency, fire shift In-charge handed over the charge to security shift In-charge & turned out to incident site immediately with fire tender, fire jeep & ambulance .	
2	11:48 Hrs		Fire & OHC crew along with fire tender, fire jeep and ambulance arrived at incident site.	
3	11:50 Hrs		Checked for any casualty at site , guided people for safe evacuation from the site. Fire hose laid down to cool the surrounding areas. Applied AR-AFFF foam to control the Fire.	
VII) Action by Security shift In charge:-				
1	11:44 Hrs		Arrived at emergency control centre and took charge from fire shift In-charge.	
2	11:44 Hrs		Informed to CEC, Safety head and plant in charge about the incident.	
VIII) Action by Male Nurse / FMO (OHC Team):-				
1	11:43 Hrs		Received information from Fire dept.	
2	11:43 Hrs		Immediately ambulance turned out along with Fire vehicles.	
3			No casualty reported at Site , No any further actions required.	
IX) Action to reduce the Environmental Impact:-				
1	Contaminated water was pumped and transfer to ETP for further treatment with the help of tanker			
8.0 COMMENT ON RESOURCES:-				
1	Resources for the scenario found adequate.			
9.0 POSITIVE POINTS / SHORT COMING OF THE DRILL:-				
Positive Points				
1	All actions by Primary observer ,Site incident controller,Emeregency crew members, FMO and security were prompt			
Short coming				
1	NIL			
10.0 RECOMMENDATIONS:				
S.N.	Recommendations:		Responsibility	Target Date
1	Obstruction found near DG set during extinguish the fire, Electrical dept/Operation dept. ensure all time Safe access for any emergency mitigation		Mr.Vipul Trivedi	30.03.23

1	Name of the Site Incident controller	Mr. Suraj Palande	
	Signature of the Site Incident controller		
2	Name of the Chief Emergency Controller	Mr. Avinash Bogar	
	Sign of the Chief Emergency controller		



Primary observer observed Heavy IPA leak from the flange joint



Primary observer Tried to extinguish the Fire using portable FE



Drumming E/I conveyed message to ECC, IPA C/R & Plant Incharge



Fire crew reached at site along with Fire vehicles



Fire crew tried to extinguish the Fire



Mayura curtain to control the spread of Fire



Communication between Fire SI, IC & CEC



Workers gathered at Assembly point

[illegible]

SN	CRITERIA	Score	UNIT OF MEASUREMENT	MAXIMUM MARKS	MARKING CRITERIA					
					5	4	3	2	1	0
a	Prompt and clear Communication to ECC, seniors, Adjutant control room, Maintenance crew (Scenario, casualty information, process actions)	5	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in Mock Drill Response	02 Minor Deviation but not causing delay in Mock Drill Response	-	-	03 or more Deviations
b	Action for emergency containment (whatever in his/her scope)- plant emergency actions, Repetitive Alerting on PA system, In communication with	4	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
c	Prompt and clear Communication To other control rooms (Scenario, casualty information, process actions)	5	Nos.	5						
5	Action by Site Incident Controller									
a	Prompt and clear Communication to ECC and control room for alert. Evacuation and All clear siren	5	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
b	Action for emergency containment (whatever in his/her scope)- plant emergency actions, Guiding emergency crew for combating emergency, casualty handling	4	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations

[illegible]

SN	CRITERIA	Score	UNIT OF MEASUREMENT	MAXIMUM MARKS	MARKING CRITERIA					
					5	4	3	2	1	0
a	Using and Applying medical equipment, casualty handling and mobilization	NA	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
10	Action by any other agency like HR or other department (For E.g. in case of L1 or offsite drill-More departments like HR etc involved)	NA	Nos.	NA	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
11	Performance or functioning of communication equipment (Walkie Talky, PA system, Manual Call point) and emergency equipment such as Fire Extinguisher, Fire pumps, fire hydrants, sprinklers, hoses etc.	3	Nos.	5	Functioned as desired - No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
12	Evacuation and head count at Assembly Point.	5	Nos.	5	Evacuation without ambiguity, orderly and matching of headcount	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
Total		70		80						
Overall Score: (Total score/Maximum Marks)		87.5	%							

Note: If the rating is below 80 % (drill to be repeated)

OC



DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED

DFPCL/K1 to K5/EHS/DISH/23-24/04

31-Aug-23

The Jt. Director,
Directorate of Industrial Safety and Health,
6th floor, Kokan Bhavan
CBD, Belapur-400614

Subject: Submission of Mock drill Report at Acid Tanker loading point (Acid Tank farm area) of K-1-K-5 DFPCL.

Respected Sir,

We are submitting herewith the report of Mock drill, which was conducted on 22-Jun-23 at Acid Tanker loading point (Acid Tank farm area) of K-1-K-5 DFPCL, at 11:35 hrs. for information and record. The scenario was CNA /Acid Tanker overflow leading to heavy NOx & Fire (vehicle tyres).

Please acknowledge receipt of the same.

Thanking you,

Yours Truly,

For Deepak Fertilizers & Petrochemicals Corp. Ltd.,

Pradip Tandel
DGM EHS
Encl: Mock drill Report.

11/01/2023
कार्यालय - सह संचालक, औद्योगिक सुरक्षा व
आग्नेय संवाहनलय, रायगड
कोकण भवन (विस्तारित कक्ष)
खोली क्र. ५२२, ५ वा मजला,
साबीडी चेलापूर, नवी मुंबई - ४००६१४



Check List	Mock Drill Reporting Format	Prepared by:	Checked by:	Approved by:
Check List No.	EHS/Safety/SOP-03/F-01	Sr.Mgr. EHS	AGM EHS	Head-EHS
Unit	DFPCL K-1 -K-5 & K6	Version No	2	06-07-2022
		Revision No	0	

Report on On-site Emergency Mock drill (Level-II)

1.0	Date of Mock drill	22.06.2023
2.0	Time of Mock Drill	11:35 Hrs.
3.0	Location of Incident / Mock drill	Acid Tanker loading point (Acid Tank farm area)
4.0	Type of emergency / Scenario	C N A /Acid Tanker overflow leading to heavy Nox & Fire (vehicle tyre)
5.0	Details of Members involved in Mock drill:	1. Mr. U. N. Mishra (CEC) 2. Mr. Prasad Mhaskar (Incident controller) 3. Mr. Nitin Salavkar (Emergency team leader) 4. Mr. Sagar Phadke (Primary Observer) 5. Mr. Deepak Jadhav (Security)
6.0	Observer's Location	1. Incident Site (Mr. Sanjay Landge) 2. ECC - (Mr. S. K. Patil) 3. Adjacent control room (Mr. Harish Ingale) 4. OHC (Mr. Manish Pandit) 5. Incident control room (Mr. Vijay Khare)

7.0	Communication and Action			
Sr. No.	Time Hrs.		Actions taken	Observation / Comment

I) Action by Primary observer:

1	11:30 Hrs		Observed acid tanker overflow while loading the tanker at tanker loading point, Stopped the loading activity & informed to control room & Fire control room through telephone.	
2			Alert all tanker driver in nearby area.	

II) Action by control room:

1	11:31 Hrs		Panel operator conveyed message to Shift-in-charge.	
2	11:32 Hrs		One shift-in-charge rush to the acid tanker loading point.	

III) Action at Field:

1	11:34 Hrs		Shift incharge arrived at site. .	
2	11:36 Hrs		Fire & OHC crew along with Fire tender, fire jeep and ambulance arrived at incident site.	
3	11:37 Hrs		One casualty rescued by fire team & shifted to Ambulance to OHC for further treatment.	
4	11:38 Hrs		Fire team laid hose line from nearby fire hydrant and starts spraying water over tyres of acid tanker. Another water line/mayura curtain arranged from fire tender and spray water over	

Sr. No.	Time Hrs.		Actions taken	Observation / Comment
5	11:38 Hrs		PM, GH, Safty Head Arrived at site, Guided Fire crew for emergency management	
6	11:41 Hrs		Alert Siren blown to alert the people working in the area . Checked for any casualty at site, guided tanker driver to gather near tanker driver cabin.	
7	11:44 Hrs		Emergency brought under control.All clear Siren blown afetr normalisation of the emergency.	

IV) Action by Site Incident Controller (SIC):

1	11:37 AM		Incident controller/SI arrive at site	
2	11:38 AM		Guided fire team to spraying water over tyre of tanker. Made continuous communication with CEC.	
3	11:44 AM		Emergency brought under control.	

V) Action by Chief Emergency Controller (CEC):

1	11:37 AM		Information received from Security S/I about the emergency	
2	11:39 AM		Continuously taking feedback from the incident controller about the emergency situation. Also taking feedback from OHC regarding casualty	
3	11:41 Hrs		Alert Siren blown to alert the people working in the area	
4	11:44 Hrs		Emergency brought under control.All clear Siren blown after normalisation of the emergency.	

VI) Action by Fire crew / Fire shift In Charge:-

1	11:35 AM		On receipt of the message about emergency, fire shift In-charge handed over the charge to security shift In-charge & turned out to incident site immediately with fire tender, fire jeep & ambulance .	
2	11:36 AM		Fire & OHC crew along with fire tender, fire jeep and ambulance arrived at incident site.	
3	11:37 AM		Taking information from acid operator and rescued one casualty (Driver) with help of fire team and ambulance crew & shifted to OHC.	
4	11:38 AM		Checked area for any casualty at site , guided other tanker driver for safe approach to driver cabin. Fire water spraying started from hydrant & fire tender. Handed over one Walkie-talkieset to plant in-charge for communication with CEC.	

VII) Action by Security shift In charge:-

1	11:36 AM		Arrived at emergency control centre and took charge from fire shift In-charge.	
2	11:37 AM		Informed to CEC, Safety head, HR head, Security head and plant in charge about the incident.	

VIII) Action by Male Nurse / FMO (OHC Team):-

Sr. No.	Time Hrs.		Actions taken	Observation / Comment
1	11:35 AM		Received information from Fire dept.	
2	11:36 AM		Immediately ambulance turned out along with Fire vehicles.	
3	11:39 AM		One casualty reported at OHC. Treatment given as per procedure.	

IX) Action to reduce the Environmental Impact:-

- | | |
|---|--|
| 1 | Contaminated water send to ETP for further treatment |
|---|--|

8.0 COMMENT ON RESOURCES:-

- | | |
|---|--|
| 1 | Resources for the scenario found adequate. |
|---|--|

9.0 POSITIVE POINTS / SHORT COMING OF THE DRILL:-

Positive Points

- | | |
|---|---|
| 1 | All actions by Primary observer ,Site incident controller, Emergency crew members, and security were prompt |
|---|---|

Short coming

- | | |
|---|---------------------------------------|
| 1 | Emergency Communication part is weak. |
|---|---------------------------------------|

10.0 RECOMMENDATIONS:

S.N.	Recommendations:	Responsibility	Target Date
1	Safety PPE's (Safety goggles) to be worn by all members involved in emergency handling/ working in field	All HOD	Immediate
2	Important Telephone number board to be updated in Emergency Control Centre.	Mr.Rakesh Mhatre	Immediate
3	Walkie Talkie disturbance needs to be rectify for better communication	Mr.R Bhati	31.07.23
4	Communication to be done to adjacent control room / Awareness /Refresher training needs to imparted to all Panel managers/Shfit officers	Mr.Rakesh Mhatre	31.07.23
5	Emergency siren to be provide for CFB & NPK plant area	Mr.Rajshekhar Bonth	10.02. 24

1	Name of the Site Incident controller	Mr. Prasad Mhaskar	<i>for Mhatre</i> <i>S.D. Mhatre</i>
	Signature of the Site Incident controller		
2	Name of the Chief Emergency Controller	Mr.Upendranath Mishra	<i>U. Mishra</i>
	Sign of the Chief Emergency controller		



Primary observer observed Tanker Over-flow at tanker loading point



Primary Observer conveyed message to Plant CR & Shift-Incharge



Emergency Crew member arrived at site



Primary observer briefed to fire crew about incidence



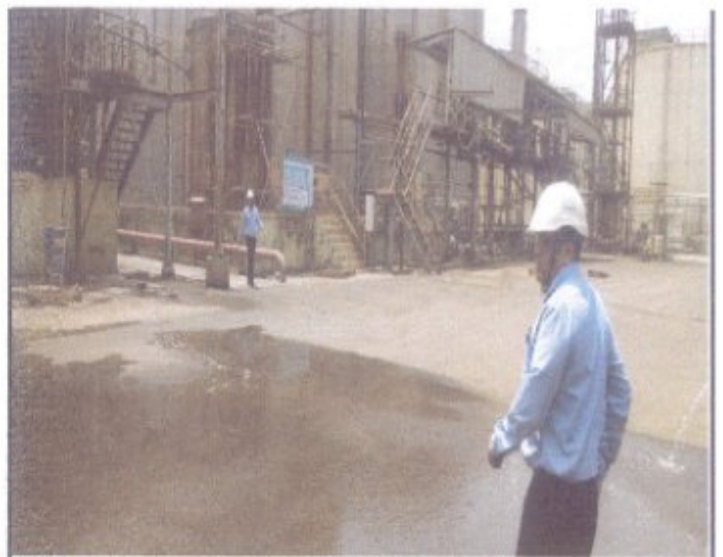
Casualty rescued & shifted to OHC for treatment in Ambulance



Fire crew started water spraying on tyre & nearby acid spilled area



Incident Controller (Plant Head) arrived at Site



EHS Head & Plant Manager arrived at site



Emergency Communication between Incident controller & CEC



Mayura curtain started to dilute the Nox fumes




Emergency Communication between Fire Team & CEC



Mock Drill closing meeting



																							
Mockdrill Scenario																							
Date ; Time & Location												Acid Tanker Over flow at tanker loading point											
												Dt. 22.06.23 ; Time - 11:30 hrs ; Location - Acid tanker loading point											
CRITERIA												UNIT OF MEASUREMENT		MAXIMUM MARKS		MARKING CRITERIA							
SN		Score																					
1	Mock Drill Planning Pre intimation to Sr. Management and clearance	5		Nos.	5	No Deviation	01 Minor Deviation but not causing delay in Mock Drill Response	02 Minor Deviation but not causing delay in Mock Drill Response	-	-	-	03 or more Deviations											
2	Role of observers - Observers de- briefing before mock drill - All Briefed and demonstrated during mock drill - No ambiguity in role and recording)	5		Nos.	5	No Deviation	01 Minor Deviation but not causing delay in Mock Drill Response	02 Minor Deviation but not causing delay in Mock Drill Response	-	-	-	03 or more Deviations											
3	Action by Primary observer																						
a	Prompt and clear Communication (Scenario, casualty information, wind direction, required process or other actions)	4		Nos.	5	No Deviation	01 Minor Deviation but not causing delay in Mock Drill Response	02 Minor Deviation but not causing delay in Mock Drill Response	-	-	-	03 or more Deviations											
b	Action for emergency containment (whatever in his/her scope), Alerting nearby peoples, area evacuation)	4		Nos.	5	No Deviation	01 Minor Deviation but not causing delay in Mock Drill Response	02 Minor Deviation but not causing delay in Mock Drill Response	-	-	-	03 or more Deviations											
4	Action by Control Room																						
a	Prompt and clear Communication to ECC, seniors, Adjutant control room, Maintenance crew (Scenario, casualty information, process actions)	3		Nos.	5	No Deviation	01 Minor Deviation but not causing delay in Mock Drill Response	02 Minor Deviation but not causing delay in Mock Drill Response	-	-	-	03 or more Deviations											
b	Action for emergency containment (whatever in his/her scope)- plant emergency actions, Repetitive Alerting on PA system, In communication with	4		Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	-	03 or more Deviations											
c	Prompt and clear Communication To other control rooms (Scenario, casualty information, process actions)	2		Nos.	5																		
5	Action by Site Incident Controller																						

SN	CRITERIA	Score	UNIT OF MEASUREMENT	MAXIMUM MARKS	MARKING CRITERIA					
					5	4	3	2	1	0
a	Prompt and clear Communication to ECC and control room for alert. Evacuation and All clear siren	4	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
b	Action for emergency containment (whatever in his/her scope)- plant emergency actions, Guiding emergency crew for combating emergency, casualty handling	4	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
6	Action by Fire and OHC crew									
a	Prompt turnout and reaching at incident site	5	Min.	5	RGP, IPA, AN Melt : 3 Min NPK Bagging : 4 Min, K-6 : 5 Min CCB, S.M.A. Min	1/2 Min Delay	1 Min Delay			2 Min Delay
b	Using and Applying emergency equipment's, casualty handling and mobilization	4	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
7	Action by Chief emergency Controller									
a	Prompt and clear Communication with control room and site emergency controller, Mobilising resources, Taking feedback from OHC, Decision of alert. Evacuation and All clear	4	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
8	Action by security shift in charge									
a	Prompt and clear Communication with designated personnel,	3	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
9	Action At OHC									
a	Using and Applying medical equipment, casualty handling and mobilization	5	Nos.	5	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
10	Action by any other agency like HR or other department (For E.g. in case of L1 or offsite drill-More departments like HR etc	NA	Nos.	NA	No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations

SN	CRITERIA	Score	UNIT OF MEASUREMENT	MAXIMUM MARKS	MARKING CRITERIA					
					5	4	3	2	1	0
1.1	Performance or functioning of communication equipment (Walkie Talky, PA system, Manual Call point) and emergency equipment such as Fire Extinguisher, Fire pumps, fire hydrants, Fire alarm, Smoke alarm	4	Nos.	5	Functioned as desired - No Deviation	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
1.2	Evacuation and head count at Assembly Point.	4	Nos.	5	Evacuation without ambiguity, orderly and matching of headcounts	01 Minor Deviation but not causing delay in use of Safety System	02 Minor Deviation but not causing delay in use of Safety System	-	-	03 or more Deviations
Total		64		80						
Overall Score:		80	%							
(Total score/Maximum Marks)										

Note: If the rating is below 80 % (drill to be repeated)

ESC Expenditure Details							
SR.NO	PROPOSED ESR ACTIVITY	ESTIMATED COST	Approved ENFA NO	Approved ENFA date	PO NO	Work Status	Total Expenditure in Rs.
1	Donation of Ambulance to Panvel Municipal Corporation (Request of Mr. Arvind Mhatre,	8.8	Project / 21-22 / 1 Project / 21-22 / 45	07-Apr-21 27-May-21	2100008419/ 2100008420	Completed	805339
2	Renovation of Tondare Primary School	15.46	Projects/21-22/13	19-Apr-21	3001000165	Completed (Project Team)	1546000
3	Digital Classroom - Tondare ZP School	10.73	Corporate Governance/21-22/2	07-Jul-21	2000000683	Completed	1073400
4	1000 Trees Plantation per year in surrounding villages.	50	Manufacturing / 21-22 / 281	16-Apr-21	214009603	EHS Team	50,00,000
5	Green Belt Development - Green belt in 33% of the project area along the periphery and on the side of the roads	60	Manufacturing/21-22/427	12-Apr-21	2100008384	Plantation Done (EHS Team)	6,00,000
Total NPK CER Budget		144.99					9024739

Environmental Social Commitment (ESC) activities :

1. Digital Classroom - Tondare ZP School



2. Donation of Ambulance to Panvel Municipal Corporation



ANNEXURE: Environmental Monitoring

1. Effluent Monitoring Details

Environment Monitoring FY 2023-24								
I. Effluent (By MOEF&CC approved Lab) :								
Parameters/Months	Limit	UOM	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Average
pH	6.5 To 8.5	--	7.33	7.51	6.8	6.98	6.97	7.12
COD	250	mg/lit	50	25	47	44	80	49.20
BOD 3 days 27°C	100	mg/lit	18	10	19	15	28	18.00
Total Suspended Solids	100	mg/lit	32	58	8	7	27	26.40
TDS	2100	mg/lit	2025	1269	1118	1105	1223	1348.00
Oil & Grease	10	mg/lit	1	2	<0.1	<0.1	1	1.33
Dissolved Phosphate as P	5	mg/lit	1.26	1.24	1.08	1.13	1.18	1.18
Ammonical Nitrogen as N	50	mg/lit	33.46	23.07	39.76	34.06	36.04	33.28
Free Ammonical Nitrogen as N	4	mg/lit	0.3	0.33	0.28	0.23	0.26	0.28
Nitrate Nitrogen as N	20	mg/lit	2.14	2.21	2.14	2.07	2.12	2.14
Fluoride as F	10	mg/lit	BDL	BDL	BDL	BDL	BDL	BDL
Total Kjeldhal Nitrogen (TKN) as N	75	mg/lit	12.05	11.19	9.69	8.04	10.21	10.24



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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/0974	Report Date	11/04/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/0974	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 05/04/2023	Sample Received on	06/04/2023
Sample Submitted by	GLPL	Analysis Period	06/04/2023 To 11/04/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	7.33	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	50	250 Max.	APHA 5220 B
BOD 3 days 27°C	mg/ltr	18	100 Max.	IS 3025 (Part 44) : 1993
Total Suspended Solids at 105°C	mg/ltr	32	100 Max.	APHA 2540 D
Total Dissolved Solids at 180°C	mg/ltr	2025	2100 Max.	APHA 2540 C
Oil & Grease	mg/ltr	1.0	10 Max.	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	1.26	5.0 Max.	APHA 4500 P - D
Ammoniacal Nitrogen as N	mg/ltr	33.46	50 Max.	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.30	4.0 Max.	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	2.14	20 Max.	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	BDL	10 Max.	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	12.05	75 Max.	APHA 4500 N ^{org} B
Iron	mg/ltr	0.323	3.0 Max.	APHA 3111 B
Nickel	mg/ltr	0.429	3.0 Max.	APHA 3111 B
Zinc	mg/ltr	0.304	5.0 Max.	APHA 3111 B
Copper	mg/ltr	0.209	3.0 Max.	APHA 3111 B
Cadmium	mg/ltr	0.231	2.0 Max.	APHA 3111 B
Lead	mg/ltr	0.468	1.0 Max.	APHA 3111 B
Hexavalent Chromium as Cr+6	mg/ltr	< 0.001	2.0 Max.	APHA 3500 Cr B
Temperature	°C	27.4	-	APHA 2550
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Phenols	mg/ltr	BDL	-	APHA 5530 D

Contd...2/..



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TEST REPORT

∴ 2 ∴

Phosphorus	mg/ltr	BDL	-	APHA 4500 P
Free Cyanide	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	Nil	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Arsenic	mg/ltr	BDL	-	APHA 3112 B

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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Note:

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



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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/1266	Report Date	10/05/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/1266	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 04/05/2023	Sample Received on	05/05/2023
Sample Submitted by	GLPL	Analysis Period	05/05/2023 To 10/05/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	7.51	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	25	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	10	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	58	100	APHA 2540 D
Total Dissolved Solids at 180°C	mg/ltr	1269	2100	APHA 2540 C
Oil & Grease	mg/ltr	2.0	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	1.24	5	APHA 4500 P – D
Ammoniacal Nitrogen as N	mg/ltr	23.07	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.33	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	2.21	20	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	BDL	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	11.19	75	APHA 4500 N ^{org} B
Iron	mg/ltr	0.326	3.0	APHA 3111 B
Nickel	mg/ltr	0.424	3.0	APHA 3111 B
Zinc	mg/ltr	0.301	5.0	APHA 3111 B
Copper	mg/ltr	0.207	3.0	APHA 3111 B
Cadmium	mg/ltr	0.235	2.0	APHA 3111 B
Lead	mg/ltr	0.470	1.0	APHA 3111 B
Hexavalent Chromium as Cr ⁺⁶	mg/ltr	< 0.001	2.0	APHA 3500 Cr B
Temperature	°C	27.6	-	APHA 2550
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Phenols	mg/ltr	BDL	-	APHA 5530 D

Contd...2/..



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... 2 ...

Phosphorus	mg/ltr	BDL	-	APHA 4500 P
Free Cyanide	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	Nil	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Arsenic	mg/ltr	BDL	-	APHA 3112 B
End				

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/1650	Report Date	22/06/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/1650	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 16/06/2023	Sample Received on	17/06/2023
Sample Submitted by	GLPL	Analysis Period	17/06/2023 To 22/06/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	6.80	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	47	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	19	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	8.0	100	APHA 2540 D
Total Dissolved Solids at 180°C	mg/ltr	1118	2100	APHA 2540 C
Oil & Grease	mg/ltr	< 0.1	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	1.08	5	APHA 4500 P – D
Ammoniacal Nitrogen as N	mg/ltr	39.76	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.28	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	2.14	20	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	BDL	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	9.69	75	APHA 4500 N ^{org} B
Iron	mg/ltr	0.317	3.0	APHA 3111 B
Nickel	mg/ltr	0.406	3.0	APHA 3111 B
Zinc	mg/ltr	0.309	5.0	APHA 3111 B
Copper	mg/ltr	0.211	3.0	APHA 3111 B
Cadmium	mg/ltr	0.224	2.0	APHA 3111 B
Lead	mg/ltr	0.462	1.0	APHA 3111 B
Hexavalent Chromium as Cr ⁺⁶	mg/ltr	< 0.001	2.0	APHA 3500 Cr B
Temperature	°C	26.9	-	APHA 2550
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Phenols	mg/ltr	BDL	-	APHA 5530 D

Contd...2/..



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TEST REPORT

::: 2 :::

Phosphorus	mg/ltr	BDL	-	APHA 4500 P
Free Cyanide	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	Nil	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Arsenic	mg/ltr	BDL	-	APHA 3112 B

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

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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/7.8/01

Test Report No.	GW/O/23/1919	Report Date	18/07/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/1919	Page No.	1 of 2
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 12/07/2023	Sample Received on	13/07/2023
Sample Submitted by	GLPL	Analysis Period	13/07/2023 To 18/07/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	6.98	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	44	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	15	100	IS 3025 (Part 44) : 1993
Total Suspended Solids	mg/ltr	7.0	100	APHA 2540 D
Total Dissolved Solids at 180°C	mg/ltr	1105	2100	APHA 2540 C
Oil & Grease	mg/ltr	< 0.1	10	APHA 5520 B
Dissolved Phosphate as P	Mg/ltr	1.13	5	APHA 4500 P - D
Ammoniacal Nitrogen as N	mg/ltr	34.06	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.23	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	2.07	20	APHA 4500 NO ₃ B
Fluoride as F	mg/ltr	BDL	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	8.04	75	APHA 4500 N ^{org} B
Iron	mg/ltr	0.312	3.0	APHA 3111 B
Nickel	mg/ltr	0.401	3.0	APHA 3111 B
Zinc	mg/ltr	0.302	5.0	APHA 3111 B
Copper	mg/ltr	0.216	3.0	APHA 3111 B
Cadmium	mg/ltr	0.221	2.0	APHA 3111 B
Lead	mg/ltr	0.457	1.0	APHA 3111 B
Hexavalent Chromium as Cr ⁺⁶	mg/ltr	< 0.001	2.0	APHA 3500 Cr B
Temperature	°C	28.8	-	APHA 2550
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Phenols	mg/ltr	BDL	-	APHA 5530 D

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TEST REPORT

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Phosphorus	mg/ltr	BDL	-	APHA 4500 P
Free Cyanide	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	Nil	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Arsenic	mg/ltr	BDL	-	APHA 3112 B

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]

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TEST REPORT

Doc. No: GLPL/QF/7.8/01

Test Report No.	GW/O/23/2282	Report Date	24/08/2023
Customer Name and Address	M/S SMARTCHEM TECHNOLOGIES LIMITED, PLOT NOS. K-1, K-1 (PART-1), K-1 (PART-2), MIDC TALOJA, TAL. PANVEL, DIST. RAIGAD.		
Letter Ref/Date	2100013414 / 03-09-2022		
Lab Reference No.	GW/O/23/2282	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Sampling Method	APHA 1060
Sampling Done By	GLPL on 18/08/2023	Sample Received on	19/08/2023
Sample Submitted by	GLPL	Analysis Period	19/08/2023 To 24/8/2023
Sample Description	ETP Treated Water Sample, 1 lit in plastic bottle		

ANALYSIS REPORTS:

Parameters	Units	Test Result	Specification Range as per MPCB Limits	Methods
pH	---	6.97	6.5 To 8.5	APHA 4500 H ⁺
COD	mg/ltr	80	250	APHA 5220 B
BOD 3 days 27°C	mg/ltr	28	100	IS 3025 (Part 44) : 1993
Total Suspended Solids at 105°C	mg/ltr	27	100	APHA 2540 D
Total Dissolved Solids at 180°C	mg/ltr	1223	2100	APHA 2540 C
Oil & Grease	mg/ltr	1.0	10	APHA 5520 B
Dissolved Phosphate as P	mg/ltr	1.18	5	APHA 4500 P - D
Ammoniacal Nitrogen as N	mg/ltr	36.04	50	APHA 4500 NH ₃ A
Free Ammonical Nitrogen as N	mg/ltr	0.26	4	APHA 4500 NH ₃ C
Nitrate Nitrogen as N	mg/ltr	2.12	20	APHA 4500 NO ₃ B
Fluoride as F ⁻	mg/ltr	BDL	10	APHA 4500 F ⁻
Total Kjeldhal Nitrogen (TKN) as N	mg/ltr	10.21	75	APHA 4500 N ^{org} B
Iron	mg/ltr	0.317	3.0	APHA 3120 B
Nickel	mg/ltr	0.410	3.0	APHA 3120 B
Zinc	mg/ltr	0.306	5.0	APHA 3120 B
Copper	mg/ltr	0.221	3.0	APHA 3120 B
Cadmium	mg/ltr	0.228	2.0	APHA 3120 B
Lead	mg/ltr	0.460	1.0	APHA 3120 B
Hexavalent Chromium as Cr+6	mg/ltr	< 0.001	2.0	APHA 3500 Cr B
Temperature	°C	28.3	-	APHA 2550
Vanadium as V	mg/ltr	BDL	-	APHA 3500 V
Phenols	mg/ltr	BDL	-	APHA 5530 D

Contd...2/..



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TEST REPORT

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Phosphorus	mg/ltr	BDL	-	APHA 4500 P
Total Cyanide as CN	mg/ltr	BDL	-	APHA 4500 E
Free Cyanide	mg/ltr	BDL	-	APHA 4500 E
Total Residual Chlorine as Cl ₂	mg/ltr	Nil	-	APHA 4500 Cl B
Total Chromium as Cr	mg/ltr	BDL	-	APHA 3111 B & C
Arsenic	mg/ltr	BDL	-	APHA 3112 B

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
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Environment Management Plan (EMP) Cost FY 2022-23		
S.N.	Particular	Cost (Rs.)
1	Environmental Monitoring (JVS sampling, Third party Moef&cc approved lab environment monitoring (stacks, ambient Air, water (every cooler), waste water, noise).	6,25,256
2	Maintanncce cost of Green Belt.	30,14,153
3	Chemical consumption cost for effluent treatment	15,00,000
4	OCEMS (Emission & Effluent) system upkeeping	6,00,000
5	Water conservation project through treatment process by ETP upgrdation	1,70,00,000
6	Plastic waste recycleing cost	1,50,00,000.00
		3,77,39,409