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Proposal Details

Proposal No	J-11011/218/2004-IA II(I)	Category	Industrial Projects - 2		
Proposal Name	Iso Propyl Alcohol (IPA 70,000 MTA) project at MIDC area ,Taloja Maharashtra by M/s. Deepak Fertilizers & Petrochemical's corporation Limited. vide file no. (J-11011/218/2004-IA II(I) dt 24.02.2006).				
Plot / Survey/ Khasra No.		Village(s)		Sub-District(s)	
State	MAHARASHTRA	District	RAIGAD		
MoEF File No	J-11011/218/2004-IA II(I)	Name of the Entity/ Corporate Office	M/s. Deepak Fertilizers & Petrochemical's corporation Limited.	Entity's PAN	NA
Entity Name as per PAN	NA	Entity details mentioned above is correct ?			

Covering Letter

Covering Letter NA

Compliance Reporting Details

Reporting Year 0 **Reporting Period** 0
Remark(if any)

Details of Production and Project Area

**Date of
Commencement of
Project/Activity**

	Project Area as per EC Granted(ha.)	Actual Project Area in Possession(ha.)
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	0	0

PRODUCTION CAPACITY

Sr.No.	Name of the Product	Units	As per EC Granted	As per CTO Granted	CTO ID	Valid Up To	Production during last financial year
1	ISO PROPYAL ALCOHOL	Tons per Annum (TPA)	70000	70000	Format1.0/CAC/UAN No. MPCB CONSENT-0000146287/CO/2301000400	31-03-2026	48343.77

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details	Status of Compliance,Remarks/Reason and Supporting Documents
1	AIR QUALITY MONITORING AND PRESERVATION	The gaseous emissions (SO ₂ , NO _x , NH ₃ & HCl) and particulate matter from various process units shall conform to the standards prescribed by authority from time to time. At no time the emission levels shall go beyond the stipulated standards. The Stack height shall be as per CPCB guidelines. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.Further, the company shall	<p>PPs Submission</p> <p>'There is no process stack in IPA emitting any gaseous emissions (SO_x, NO_x, NH₃, HCl & SPM). All emission stacks are being monitored by third part laboratory. Also three continuous monitoring AAQMS stations are installed connected to CPCB and MPCB portals, 2.The stack height for all consented stack is provided as per CPCB / MPCB guidelines 3.Addition of above Ambient air & all the consented stacks are being monitored by MOEF & CC approved lab. Complied Attachment: Click to View</p>

		interlock the production system with the pollution control devices.		
2	AIR QUALITY MONITORING AND PRESERVATION	AAQ monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentrations are anticipated in consultation with the MPCB.	PPs Submission	Three continuous monitoring AAQM stations are installed and connected to MPCB portal and operated continuously along with monthly monitoring by MOEF approved Laboratory. Complied Attachment: Click to View
3	AIR QUALITY MONITORING AND PRESERVATION	Fugitive emissions in the work zone environment, product and raw material storage area shall be regularly monitored. The emissions shall be controlled and confirm to the limits prescribed by CPCB.	PPs Submission	In IPA plant fugitive emissions are hydrocarbon and sensors are installed at critical locations. Work-zone monitoring is being monitored for Sox, Nox & CO. Complied Attachment: Click to View
			PPs Submission	In IPA plant fugitive emissions are hydrocarbon and sensors are installed at critical locations. Workzone monitoring is being monitored for Sox, Nox & CO. Complied Attachment: Click to View
4	WATER QUALITY MONITORING AND PRESERVATION	Total water requirement should not exceed 2800 m ³ /day as per permission accorded by MIDC vide letters dated 03.03.04 and 07.07.05. Further, efforts shall be made for further conservation of water and utilization of waste water.	PPs Submission	Water requirement doesn't exceed the limit of water consumption of MPCB CTO. As a part of water conservation waste water of the plants is utilized to reduce fresh water consumption. RO system is installed for waste water utilization. Complied Attachment: Click to View

5	WASTE MANAGEMENT	<p>The effluent generation shall not exceed 667 m³/day. All the effluent shall be treated in the augmented ETP and shall be monitored for the pH, SS, TDS, O & G, BOD, COD, Phosphates & ammoniacal Nitrogen & other relevant parameters. All the treated effluent shall be sent to CETP at Talaja for further treatment. The domestic effluent shall be treated in the existing Sewage Treatment Plant.</p>	<p>PPs Submission</p> <p>Effluent generation is maintained within the stipulated norms. In IPA plant itself the COD water stream treated in organic recovery column to reduce the COD before sending it to ETP. In addition to monitoring of all the ETP parameters (pH, TSS, TDS, O & G, BOD, COD, Phosphates & ammoniacal Nitrogen & other relevant parameters) through sampling internally and third party, OCEMS is installed for monitoring of ETP parameters (pH, SS, TSS, TDS, O & G, COD, NH₄ N, NO₃N, Phosphates) Treated effluent is sent to CETP Talaja. Domestic effluent is used ETP.</p> <p>Complied</p> <p>Attachment: Click to View</p>	
6	WASTE MANAGEMENT	<p>The company shall undertake following Waste Minimization measures: * Metering and control of quantities of active ingredients to minimize waste * Reuse of by-products from the process as raw materials or as raw material substitute in other processes. * Use of automated filling to minimize spillage * Use of close feed system into batch reactor * Venting equipment through vapour recovery system * Use of high pressure hoses for equipment</p>	<p>PPs Submission</p> <p>*No active ingredient involved in IPA *Propane and Di Isopropyle Ether are the the products from IPA plant and these are sold to customers. *All the tankers are filled through the closed auotmated system to avoid the spillage. *Our IPA plant is a continuous process and closed filled system is provided to reactor. *As such there is no venting equipment however critical vents are connected to flare system. *High pressure are used to clean the equipment during shutdowns.</p> <p>Complied</p> <p>Attachment: NA</p>	

		cleaning to reduce waste water generation		
7	WASTE MANAGEMENT	The solid waste generated in the form ETP sludge shall be stored in HDPE lined secured landfill at the site. Spent catalyst and used oil shall be sold to authorized re-processor.	PPs Submission	'Complied. ETP sludge is being recycled as a filler In fertilizer plant. Complied Attachment: NA
8	Risk Mitigation and Disaster Management	The project authorities shall strictly comply with the rules and guidelines under MSIHC Rules, 1989 as amended in October, 1994 and January 2000 and HWMH Rules, 2003 as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	PPs Submission	All related provisions of MSIHCR-1989 and HWMHR-2003, with their amendments are complied with. Authorization through CTO, valid till 31/03/2026, is obtained from MPCB for collection, treatment, storage and disposal of hazardous waste. Complied Attachment: NA
			PPs Submission	All related provisions of MSIHCR-1989 and HWMHR-2003, with their amendments are complied with. Authorization through CTO, valid till 31/03/2026, is obtained from MPCB for collection, treatment, storage and disposal of hazardous waste. Complied Attachment: Click to View
9	WATER QUALITY MONITORING AND PRESERVATION	Company shall develop surface/roof top rain water harvesting structures to harvest runoff water for recharge of ground water.	PPs Submission	Rain water harvesting system is provided at WNA 3 & 4 plants. Complied Attachment: NA
10	GREENBELT	Green belt shall be provided in at least 25% of the plant area to mitigate the effects of	PPs Submission	Complied with. 33.14 % of plot area is developed as Green belt. In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhavdi Village which is located near Dombivali

		fugitive emission all around the plant. Development of green belt shall be as per CPCB guidelines.		which approximately 15 kms away from our site. Complied Attachment: Click to View
11	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories act.	PPs Submission	Medical examination of all the workers is done once in a six month as per the factories act and records are maintained. Complied Attachment: NA

General Conditions

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks/Reason and Supporting Documents	
1	Statutory compliance	Project authorities shall strictly adhere to the stipulations made by the MPCB	PPs Submission	Complied with. We have submitted compliance report to MPCB towards compliance of conditions of consent to operate. Complied Attachment: NA
2	AIR QUALITY MONITORING AND PRESERVATION	At no time the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be put out of operation and shall not be restarted until the desired efficiency has been achieved.	PPs Submission	'There is no process stack in IPA emitting any gaseous emissions (SOx, NOx, NH3, HCl & SPM). Complied Attachment: NA
3	Statutory compliance	No further expansion or modification in the plant	PPs Submission	Compliance assured. Complied

		<p>should be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance, a fresh reference shall be made to the ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.</p>	<p>Attachment: NA</p>
4	Noise Monitoring & Prevention	<p>The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EP Act, 1986, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p>	<p>PPs Submission</p> <p>Acoustic enclosures have been provided to DG sets. Periodic noise monitoring is done by MOEF approved 3rd party laboratory at six different locations and noise level is within the standards prescribed under Noise regulation rule 2000.</p> <p>Complied</p> <p>Attachment: Click to View</p>

5	Corporate Environmental Responsibility	The Project Proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.	PPs Submission	Environment protection measures and recommendations given in EIA are complied with. Complied Attachment: NA
6	Corporate Environmental Responsibility	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry-out the Environmental Management and Monitoring functions.	PPs Submission	A separate Environmental Management Cell equipped with laboratory facilities. Complied Attachment: NA
7	Corporate Environmental Responsibility	The Project authorities shall earmark separate funds of Rs 25.80 lakhs to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	PPs Submission	Fund is utilized for implementation of environmental safeguard. Complied Attachment: NA

8	MISCELLANEOUS	The Company shall undertake welfare measures and community development measures for the local people in the vicinity of project area.	PPs Submission	The Company has been undertaking welfare measures and community development measures for the local people in the vicinity of project area. Complied Attachment: Click to View
9	Statutory compliance	The implementation of the project vis-a-vis environmental action plan shall be monitored by the Ministry's Regional Office at Bhopal / MPCB / CPCB. A Six monthly compliance status report shall be submitted to monitoring agencies.	PPs Submission	Six monthly compliance reports are being sent to Regional Office of MOEF and MPCB. Last report was sent on Dec 2022. Copy of the same posted on the company's web-site. Complied Attachment: NA
10	Statutory compliance	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the letters are available with the MPCB and may also be seen at website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned	PPs Submission	Complied with Proponent has informed to the public vide newspaper that the project has been accorded environmental clearance by the Ministry and copies of the letters are available with the MPCB and may also be seen at website of the Ministry at http://envfor.nic.in . Complied Attachment: NA

		and the copy of the same shall be forwarded to ministry's regional office at Bhopal.		
11	Statutory compliance	The project authorities shall inform the Regional Office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	PPs Submission	Complied with The project authorities has informed to the Regional Office as well as Ministry. Complied Attachment: NA
12	Statutory compliance	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	PPs Submission	Noted Complied Attachment: NA
13	Statutory compliance	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	PPs Submission	Noted. Complied Attachment: NA
14	Statutory compliance	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Environment (Protection) Act, 1986, Hazardous Wates (Management and Handling) Rules, 2003 and the Public Liability	PPs Submission	Noted. Complied Attachment: NA

Insurance Act, 1991 along with their amendments and rules.

Document Upload

Last Site Visit Report (if available) NA

Last Site Visit Report Date (if available)

Additional Attachment (if any)

[Click to View](#)

Additional Remarks (if any)

- I '[M/s. Deepak Fertilizers & Petrochemical's corporation Limited.](#)' hereby give undertaking that the data and information given in the filed compliance and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information found to be false or misleading at any stage, the clearance given to the project will be revoked at our risk and cost. In addition to above, I hereby give undertaking that no activity such as change in project layout, construction, expansion, etc. has been taken up without due approval.

Cover Letter From IRO

Cover Letter From IRO NA

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DFPCL-K1/EHS/Env/2023-24/08

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: EC granted for Iso Propyl Alcohol vide file no. (J-11011/218/2004-IA II(I) dt 24.02.2006).

Sub: Half yearly Environmental Clearance Compliance report.

Dear Sir,

Please find enclosed the half yearly EC compliance report of **Iso Propyl Alcohol plant** for the period of **April 2023 to September 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)	Industry
2	Name of the project	Iso Propyl Alcohol (IPA 70000 MTA) Project at MIDC, Taloja, Maharashtra by Deepak Fertilisers & Petrochemicals Corporation Limited
3	Clearance letter (s) /OM No. and Date	EC granted for Iso Propyl Alcohol vide file no. (J-11011/218/2004-IA II(I) dt 24.02.2006)
4	Location	
	a. District (S)	Raigad
	b. State (S)	Maharashtra
	c. Latitude/longitude	19°04'11.3"N/73°08'04.1"E
5	Address for correspondence	
	a. Address of Concerned Project Chief Engineer (with pin code & Telephone/ telex/ fax numbers	Mr. 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,
	b. Address of Executive Project: Engineer/Manager (with pin code/ Fax numbers)	Same as above
6	Salient features	
	a. of the project	Annexure-A
	b. of the environmental management plans	Annexure-B
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	Break-up of the project affected Population with enumeration of Those losing houses/dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan	NA. 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	153.7 Crores
	b. Allocation made for environmental management plans with item wise and year wise Break-up.	Attached.
	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	Attached as Annexure-10
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), if 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 2005
	b. Date of completion (Actual and/of planned)	Year 2006
13	Reasons for the delay if the Project is yet to start	NA
14	Dates of site visits	
	a. The dates on which the project was monitored by the Regional Office on previous Occasions, if any	NA
	b. Date of site visit for this monitoring report	NA
15	Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits)	NA

EC - COMPLIANCE REPORT

File No.J-11011/218/2004-IA II (I)

SN	Specific Conditions	Compliance details
i)	The gaseous emissions (SO ₂ , NO _x , NH ₃ & HCl) and particulate matter from various process units shall conform to the standards prescribed by authority from time to time. At no time the emission levels shall go beyond the stipulated standards. The Stack height shall be as per CPCB guidelines. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Further, the company shall interlock the production system with the pollution control devices.	There is no process stack in IPA emitting any gaseous emissions (SO _x , NO _x , NH ₃ , HCl & SPM). All emission stacks are being monitored by third part laboratory. Also three continuous monitoring AAQMS stations are installed connected to CPCB and MPCB portals. 2.The stack height for all consented stack is provided as per CPCB / MPCB guidelines 3.Addition of above Ambient air & all the consented stacks are being monitored by MOEF & CC approved lab. (Refer- Annexure-1 for stack emission report)
ii)	AAQ monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentrations are anticipated in consultation with the MPCB.	Three continuous monitoring AAQM stations are installed and connected to MPCB portal and operated continuously alongwith montly monitoring by MOEF approved Laboratory. (Refer- Annexure-2 for Ambient air quality monitoring report)
iii)	Fugitive emissions in the work zone environment, product and raw material storage area shall be regularly monitored. The emissions shall be controlled and confirm to the limits prescribed by CPCB.	In IPA plant fugitive emissions are hydrocarbon and 11 nos of sensors are installed at critical locations.Workzone monitoring is being monitored for Sox,NOx & CO. (Refer- Annexure-3 for Workzone monitoring report)
iv)	Total water requirement should not exceed 2800 m3/day as per permission accorded by MIDC vide letters dated 03.03.04 and 07.07.05. Further, efforts shall be made for further conservation of water and utilization of waste water.	Water requirement doesn't exceed the limit of water consumption of MPCB CTO. As a part of water conservation waste water of the plants is utilized to reduce fresh water consumption. RO system is installed for waste water utilization. (Refer- Annexure-4 for Treated effluent monitoring report)
v)	The effluent generation shall not exceed 667 m3/day. All the effluent shall be treated in the augmented ETP and shall be monitored for the pH, SS, TDS, O & G, BOD, COD, Phosphates & ammoniacal Nitrogen & other relevant parameters. All the treated effluent shall be sent to CETP at Talaja for further treatment. The domestic effluent shall be treated in the existing Sewage Treatment Plant.	Effluent generation is maintained within the stipulated norms. In IPA plant itself the COD water stream treated in organic recovery column to reduce the COD before sending it to ETP. In addition to monitoring of all the ETP parameters (pH, TSS, TDS, O & G, BOD, COD, Phosphates & ammoniacal Nitrogen & other relevant parameters) through sampling internally and third party, OCEMS is installed for monitoring of ETP parameters (pH, SS, TSS, TDS, O & G, COD, NH4 N, NO3N, Phosphates) Treated effluent is sent to CETP Talaja. Domestic effluent is used ETP. (Refer- Annexure-4 for Treated effluent monitoring report)
vi)	The company shall undertake following Waste Minimization measures: * Metering and control of quantities of active ingredients to minimize waste * Reuse of by-products from the process as raw materials or as raw material substitute in other processes. * Use of automated filling to minimize spillage * Use of close feed system into batch reactor * Venting equipment through vapour recovery system * Use of high pressure hoses for equipment cleaning to reduce waste water generation	*No active ingredient involved in IPA *Propane and Di Isopropyle Ether are the the products from IPA plant and these are sold to customers. *All the tankers are filled through the closed autotmated system to avoid the spillage. *Our IPA plant is a continuous process and closed filled system is provided to reactor. *As such there is no venting eulpmnt however critical vents are connected to flare system. *High pressure are used to clean the equipments during shutdowns.
vii)	The solid waste generated in the form ETP sludge shall be stored in HDPE lined secured landfill at the site. Spent catalyst and used oil shall be sold to authorized re-processor.	Complied.ETP sludge is being recycled as a filler infertilizer plant.
viii)	The project authorities shall strictly comply with the rules and guidelines under MSHC Rules, 1989 as amended in October, 1994 and January 2000 and HWMH Rules, 2003 as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	All related provisions of MSHC-1989 and HWMH-2003, with their amendments are complied with. Authorization through CTO, valid till 31/03/2026, is obtained from MPCB for collection, treatment, storage and disposal of hazardous waste. (Refer- Annexure-5 for copy of CTO)
ix)	Company shall develop surface/roof top rain water harvesting structures to harvest runoff water for recharge of ground water.	Rain water harvesting system is provided at WNA 3 & 4 plants.
x)	Green belt shall be provided in at least 25% of the plant area to mitigate the effects of fugitive emission all around the plant. Development of green belt shall be as per CPCB guidelines.	Complied with. 33.14 % of plot area is developed as Green belt. In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhav di Village which is located near Dombivli which approximately 15 kms away from our site. (Refer- Annexure-6 for details of green belt development)
xi)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories act.	Medical examination of all the workers is done once in a six month as per the factories act and records are maintained.
General Conditions		
i)	Project authorities shall strictly adhere to the stipulations made by the MPCB	Complied with. We have submitted compliance report to MPCB towards compliance of conditions of consent to operate.
ii)	At no time the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be put out of operation and shall not be restarted until the desired efficiency has been achieved.	There is no process stack in IPA emitting any gaseous emissions (SO _x , NO _x , NH ₃ , HCl & SPM).
iii)	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance, a fresh reference shall be made to the ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied
iv)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EP Act, 1986, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Acoustic enclosures have been provided to DG sets. Periodic noise monitoring is done by MOEF approved 3rd party laboratory at six different locations and noise level is wthin the standards prescribed under Noise regulation rule 2000. (Refer- Annexure-7 for noise monitoring report)
v)	The Project Proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.	Environment protection measures and recommendations given in EIA are complied with.
vi)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry-out the Environmental Management and Monitoring functions.	A separate Environmental Management Cell equipped with laboratory facilities.
vii)	The Project authorities shall earmark separate funds of Rs 25.80 lakhs to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Fund is utilized for implementation of environmental safeguard.
viii)	The Company shall undertake welfare measures and community development measures for the local people in the vicinity of project area.	The Company has been undertaking welfare measures and community development measures for the local people in the vicinity of project area. (Refer- Annexure-8 for copy of CSR report)
ix)	The implementation of the project vis-a-vis environmental action plan shall be monitored by the Ministry's Regional Office at Bhopal / MPCB / CPCB. A Six monthly compliance status report shall be submitted to monitoring agencies.	Six monthly compliance reports are being sent to Regional Office of MOEF and MPCB. Last report was sent on Dec 2022. Copy of the same posted on the company's web-site.
x)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the letters are available with the MPCB and may also be seen at website of the Ministry at http:// envfor.nic.in . This shall be advertised within seven days from date of issue of the clearance letter at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and the copy of the same shall be forwarded to ministry's regional office at Bhopal.	Complied with Proponent has informed to the public vide newspaper that the project has been accorded environmental clearance by the Ministry and copies of the letters are available with the MPCB and may also be seen at website of the Ministry at http:// envfor.nic.in .
xi)	The project authorities shall inform the Regional Office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied with The project authorities has informed to the Regional Office as well as Ministry.

xii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xiii)	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted
xiv)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted

Executive Summary

1.0 Introduction

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

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

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

1.1 Need For The Project

- ❖ The IPA market in the country has immense potential and the consumption was estimated to be 62,000 MTPA in year 2002 – 2003 and the estimated consumption in the year 2005 would be 72,500 MTPA.
- ❖ IPA is extensively used by pharmaceutical companies, agrochemicals industry and also in manufacturing of inks and other components required for printing.
- ❖ The company will target the huge IPA market in India, which is at present 100 per cent dependent on imports as there are no domestic manufacturers.
- ❖ IPA consumption in the country is growing by around seven percent annually.

1.2 Need For EIA Studies

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

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

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

1.3 The Surroundings

The industrial area is well connected to the state and national road network. The state highway SH-1 connecting Pune and Thane passes from a distance of 4.0 km from the SW of the site. There is a district approach road connecting the industrial area to the state highway.

The nearest railway station Navada (on Panvel – Diya line) is about 3.5 km west of the site.

Salient Features Of The Proposed Isopropyl Alcohol Plant at Taloja

State	Maharashtra
Village, District	Taloja A. V., Raigad
Nature of the Area	Notified Industrial Area
Mean Maximum Temperature	34° C (Summer)
Mean Minimum Temperature	21.8° C (Winter)
Relative Humidity	64.5 %
Annual Rainfall	1800 mm
Nearest Highway	SH-1
Nearest Port	Mumbai Port
Nearest Railway Station	Navada
Nearest Village	Devichapada, Tondre
Nearest City	Panvel
Nearest Air port	Sahara Air Port, Mumbai
Nearest River	Kasade River
Nearest Forest	No Forest Area
Historical & Sensitive Places	Nil

2.0 Process Description

The process route consists of the following steps to produce Iso Propyl Alcohol (IPA):

- ❖ C3 Splitter Section
- ❖ Reaction And Flash Section
- ❖ Distillation Section
- ❖ Molecular Sieve Section

Iso Propyl Alcohol (IPA) is produced by direct hydration of propylene across a catalyst bed.

Catalyst



2.1 Resources required

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

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

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

3.0 Baseline

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

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

3.1 Ambient Air Quality

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

- The 98th percentile of SPM levels are in the range of 58.2 TO 149.6 µg/m³
- The 98th percentile of RPM levels are in the range of 20.2 to 50.1 µg/m³
- The 98th percentile of SO₂ levels were in the range of 7.5 to 11.3 µg/m³
- The 98th percentile of NO_x levels were in the range of 12.8 to 19.3 µg/m³

The 24 hourly average values of SPM, RPM, SO₂ & NO_x were compared with the national ambient air quality standards and it was found that all the sampling stations recorded values lower than the applicable limit for residential areas.

3.2 Noise Environment

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

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

3.3 Water Quality

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

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

Ground water

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

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

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

Surface water

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

3.4 Soil Quality

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

The pH of the soil is an important property; plants cannot grow in low and high pH value soils. Most of the essential nutrients like N, P, K, Cl and SO₄ are available for plant at the neutral pH except for Fe, Mn and Al which are available at low pH range. The pH values in the study area are varying from 6.81 to 7.72 showing neutral only.

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

4.0 Identification Of Impacts

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

4.1 Construction Related Impacts

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

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

4.2 Operation Related Impacts

Air Environment

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

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

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

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

Stack and Emission Details

Stack No	Attached to	Height	Dia.	Velocity	Volume	Temp.	SPM	SO ₂
		(m)	(m)	(m/s)	NM ³ /hr	° K	g/s	g/s
1	Boiler 30TPH	63.5	1.4	15	51550	443	0.60	42

Predictions were carried out as per CPCB guidelines "Assessment of Impact to Air Environment: Guidelines for conducting air quality modeling" for pre monsoon season. The future predicted concentrations estimated by super imposing the predicted values over the base line values and presented in following table.

Predicted baseline values of SPM and SO₂ in SW direction

Pollutant	Baseline Max. Value - ($\mu\text{g}/\text{m}^3$)	Predicted Max. contribution to GLC's - ($\mu\text{g}/\text{m}^3$)	Predicted future AAQ concentration - ($\mu\text{g}/\text{m}^3$)
Particulate Matter	156	0.281	156.28
Sulphur dioxide (SO ₂)	12	19.70	31.70

(24 hrly average)

Water Environment

The entire wastewater generated 667 m³/day is treated in the existing effluent treatment plant before sending to Common CETP (used as dilution water) for further disposal. However, to meet the new demands, slight modifications are proposed in the existing ETP. The effluents after treatment will be routed to Taloja Common effluent Treatment plant Co-op Society Ltd for final disposal. Hence impact on ground water quality is not envisaged.

Land Environment

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

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

CHAPTER-V ENVIRONMENTAL MANAGEMENT PLAN

5.0 Objective

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

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

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

5.1 Environmental Management Plan

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

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

5.2 Construction Phase

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

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

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

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

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

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

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

5.3 Post Construction Phase

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

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

5.3.1 Air Environment

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

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

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

a) **Point Source (Boiler) Emissions**

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

Particulate matter, SO₂ and NO_x are the major emissions from the plant. However as the fuel proposed to be used for boiler being furnace oil and purge gas Particulate matter envisaged is negligible, and for proper dispersion of SO₂ and NO_x into surrounding environs; stack height has been maintained as per the existing norms. The details of the stack height calculations are given in **Table 5.1**.

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

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

5.3.2 Air Quality Monitoring

a) Stack Gas Monitoring

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

b) Ambient Air Quality Monitoring

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

5.4 Water Environment

The water requirement at maximum production would be 2765.2 m³/day, for all its purposes including process, floor and reactor washings, boiler, cooling tower, canteen/ domestic requirements. The total wastewater generated from the proposed project is 667 m³/day. The details of waste water generation are given in Table 5.3

**Table 5.3
Wastewater Generation Details- m³/day**

S.No	Description	Effluent	Remarks
1	Domestic	1.2	STP
2	Cooling tower	249.8	ETP
3	DM Plant	57.6	ETP
4	Process , reactor wash, floor washes, etc	317.328	ETP
		14.52	ETP
		2.664	STP
5	Boiler	24	ETP
6	Export	0	-
Total		666.912	

5.4.1 Effluent Treatment Plant Details

1. Details of Proposed IPA plant

The process effluents originating from proposed IPA plant consist of Phosphates. The Phosphates containing effluents treated with milk of lime in Reaction Tank 1. The lime mixed effluent is sent to Clarifloculator where sludge, as calcium

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

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

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

2. Details of Existing Effluent Treatment Plant of Parent Organization

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

Designed capacity	3600 m ³ /day.
Present Load	2742.3 m ³ /day

a) Phosphate removal

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

b) Dissociation of ammonia

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

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

c) Ammonia stripping

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

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

d) Nitrate -N and Nitrite -N removal

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

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

e) Polishing/aeration

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

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

Table 5.4
Existing Treatment Facilities

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

Table 5.5
Wastewater Characteristics – Before & After Treatment

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

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

3) Domestic Sewage Treatment Plant

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

5.4.2 Monitoring of Waste Treatment

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

5.4.3 Storm Water Drainage

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

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

5.5 Noise level management

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

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

- ❖ By selecting low noise prone equipment

- ❖ By isolating the noise prone unit from the working personnel's continuous exposure
- ❖ By administrative control,

The administrative control would have a major role to monitor noise, take remedial measures and ensure that no plant personnel is over exposed to noise.

Recommendations

- ❖ The use of damping material such as thin rubber/lead sheet for wrapping the work places like turbine halls, compressor rooms etc;
- ❖ Shock absorbing techniques should be adopted to reduce impact;
- ❖ Efficient flow techniques for noise associated with high fluid velocities and turbulence should be used (like reduction in noise generated by control levels in both gas and liquid systems achieved by reducing system pressure to as low as possible);
- ❖ All the openings like covers, partitions should be acoustically sealed;
- ❖ Inlet and outlet mufflers should be provided which are easy to design and construct;
- ❖ Ear plugs will be provided to workmen working near high noise generating sources;
- ❖ Noise levels should be reduced by the use of absorbing material on roof walls and floors;
- ❖ Increase the distance between source and receiver by altering the relative orientation of the source and receiver. Noise level at the receiver end reduces in inverse proportion to the square of the distance between the receiver and the source;
- ❖ Provision of separate cabins for workers/operators; and

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

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

5.6 Solid Waste Management

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

Table 5.6
Solid Waste Generation & Disposal

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

5.7 Green Belt Development

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

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

5.7.1 Plant Species for Greenbelt

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

- ✦ Fast growing type
- ✦ Should have a thick canopy cover
- ✦ Should be perennial green
- ✦ Native origin
- ✦ Should have a large leaf area index.

5.7.2 Design of Green Belt

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

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

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

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

Table 5.7

Plant Species Recommended For Reduction Of Noise Level

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

Table 5.8

Plant Species Recommended For Protection Against Gases And Particulates

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

Table 5.8
Suggested Plant Species For Green Belt Development

S. No	Scientific name	Common Name
Large Plants		
1	<i>Cedreia toona</i>	Mahanim
2	<i>Dalbergia sissoo</i>	Shisham
3	<i>Azadirachta indica</i>	Neem
4	<i>Delonix regia</i>	Gul mohr
5	<i>Millingtonia hortensis</i>	Aksh nim
6	<i>Mimosaops elengi</i>	Maulseri
7	<i>Peltophorum inerme</i>	Perungondrai
8	<i>Samania saman</i>	Debdari
9	<i>Thespisia populnea</i>	Paras papal
Medium Plants		
1	<i>Cassia siamia</i>	Kassod
2	<i>Dillenia indica</i>	Chalta
3	<i>Mathuca indica</i>	Mahua
4	<i>Casuriana equisetifolia</i>	Jungali Suru
5	<i>Pongamia pinnata</i>	Beng
6	<i>Tabulia spaciola</i>	-
7	<i>Ticoma stans</i>	
8	<i>Terminalia catappa</i>	Jangli badam
9	<i>Thevetia peruviana</i>	Pile kamer
10	<i>Lucyena leucocophala</i>	Subabul
Small Plants		
1	<i>Averrhoa caraboba</i>	Carabola
2	<i>Nalotus philippensis</i>	Sundur
3	<i>Artaboteys odoratissimus</i>	Madenmast
4	<i>Caesalpinia pulcherima</i>	Gulotora
5	<i>Callistemon lanceolatus</i>	Bottle brush
6	<i>Caryota urens</i>	Mari
7	<i>Cestrum diurnum</i>	Din-Ka Raja
8	<i>Nelia ezedarch</i>	

Table 5.10
Suggested Plant Species For Road Side Plantation

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

5.8 Industrial Safety, health & Hygiene:

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

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

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

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

5.9 Environmental Laboratory Equipment

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

Table 5.11
List of Equipment of Environmental Laboratory

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

5.10 Post Project Environmental Management

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

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

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

Environmental Management Cell

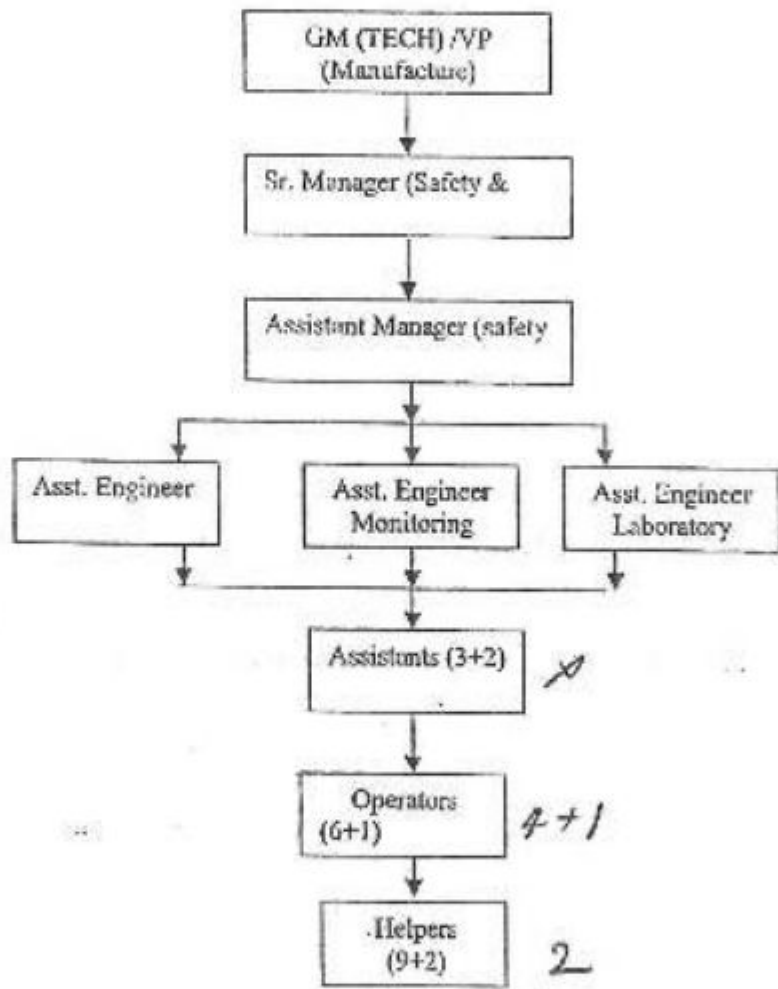


Figure 5.3 Environmental Management Cell



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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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/QF7.802

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/QF7.3/06	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.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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Note :

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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

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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

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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		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	103.6		
	ppm v/v	55.1		
CO	Kg/day	151.49	---	APHA Edition II-134
	mg/Nm ³	29.8		
	ppm	26.0		
	Kg/day	43.57		

End

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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		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	157.1		
	ppm v/v	83.6		
CO	Kg/day	283.90	---	APHA Edition II-134
	mg/Nm ³	27.5		
	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

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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		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	17.0		
	ppm v/v	9.0		
CO	Kg/day	7.66	---	APHA Edition II-134
	mg/Nm ³	18.7		
	ppm	16.3		
	Kg/day	8.43		

End

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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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[KAILAS V. CHITALKAR]

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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.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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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

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		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	121.4		
	ppm v/v	64.6		
CO	Kg/day	176.15	---	APHA Edition II-134
	mg/Nm ³	37.8		
	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		
NO _x	Kg/day	Nil	350.0	IS 11255 (Part VII) 2005
	mg/Nm ³	116.1		
	ppm v/v	61.7		
CO	Kg/day	207.84	---	APHA Edition II-134
	mg/Nm ³	27.5		
	ppm	24.0		
	Kg/day	49.23		

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/04/64	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.

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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 3225
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

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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 [Hrs]	Duration of Sampling [Hrs]	Ambient Temperature [°C]		Relative Humidity [%]	
		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

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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.

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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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 [Hrs]	Duration of Sampling [Hrs]	Ambient Temperature [°C]		Relative Humidity [%]	
		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

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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

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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/23/06/198	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

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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/23/07/147	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

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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/23/07/148	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 [Hrs]	Duration of Sampling [Hrs]	Ambient Temperature [°C]		Relative Humidity [%]	
		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

*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/23/07/149	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

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/23/06/197	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

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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/23/06/199	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

End

For GADARK LAB PVT. LTD.

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TEST REPORT

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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 [Hrs]	Duration of Sampling [Hrs]	Ambient Temperature [°C]		Relative Humidity [%]	
		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

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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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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

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

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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

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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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/23/05/13	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, 2014-2018
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) 2008
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.

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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

For GADARK LAB PVT. LTD.

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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

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/04/68	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 07/04/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	03/04/2023
Time of Sampling [Hrs.]	12:15
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	25
Ambient Temperature [°C] [Max]	32
Relative Humidity [%] [Min]	37
Relative Humidity [%] [Max]	74

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.096	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.028	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.038	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.84	55.0	IS 5182 (Part X) 1999

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/23/04/69	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 07/04/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	03/04/2023
Time of Sampling [Hrs.]	09:55
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	25
Ambient Temperature [°C] [Max]	32
Relative Humidity [%] [Min]	37
Relative Humidity [%] [Max]	74

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.083	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.026	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.036	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.78	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/04/70	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 07/04/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	03/04/2023
Time of Sampling [Hrs.]	10:10
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	25
Ambient Temperature [°C] [Max]	32
Relative Humidity [%] [Min]	37
Relative Humidity [%] [Max]	74

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.075	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.029	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.040	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.73	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/08/166	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 - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	16/08/2023
Time of Sampling [Hrs.]	11:35
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	26
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	46
Relative Humidity [%] [Max]	90

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.098	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.018	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.031	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.93	55.0	IS 5182 (Part X) 1999

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/23/08/167	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 - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	16/08/2023
Time of Sampling [Hrs.]	11:10
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	26
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	46
Relative Humidity [%] [Max]	90

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.085	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.020	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.034	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.77	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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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. Samples will be preserved for a period 15 days from the delivery of Test Report.
4. Test Results relate only to the conditions prevailing at the time of sampling.
5. Customer complaint register is available at laboratory.



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INDUSTRIAL ANALYSTS & CONSULTANTS

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

TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/08/168	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 - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	16/08/2023
Time of Sampling [Hrs.]	11:20
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	26
Ambient Temperature [°C] [Max]	31
Relative Humidity [%] [Min]	46
Relative Humidity [%] [Max]	90

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.096	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.024	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.033	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.73	55.0	IS 5182 (Part X) 1999

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/23/07/150	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 - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	10/07/2023
Time of Sampling [Hrs.]	13:45
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	22
Ambient Temperature [°C] [Max]	30
Relative Humidity [%] [Min]	66
Relative Humidity [%] [Max]	90

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.087	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.024	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.029	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.90	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/07/151	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 - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	10/07/2023
Time of Sampling [Hrs.]	11:30
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	22
Ambient Temperature [°C] [Max]	30
Relative Humidity [%] [Min]	66
Relative Humidity [%] [Max]	90

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.091	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.022	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.036	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.67	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/07/152	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 - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	10/07/2023
Time of Sampling [Hrs.]	11:40
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	22
Ambient Temperature [°C] [Max]	30
Relative Humidity [%] [Min]	66
Relative Humidity [%] [Max]	90

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.089	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.026	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.030	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.77	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/06/202	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 17/06/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	14/06/2023
Time of Sampling [Hrs.]	13:15
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	32
Ambient Temperature [°C] [Max]	35
Relative Humidity [%] [Min]	68
Relative Humidity [%] [Max]	72

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.092	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.029	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.038	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.82	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/06/203	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 17/06/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	14/06/2023
Time of Sampling [Hrs.]	11:05
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	32
Ambient Temperature [°C] [Max]	35
Relative Humidity [%] [Min]	68
Relative Humidity [%] [Max]	72

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.085	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.024	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.033	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.85	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/06/204	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 17/06/2023

SAMPLING DETAILS - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	14/06/2023
Time of Sampling [Hrs.]	11:15
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	32
Ambient Temperature [°C] [Max]	35
Relative Humidity [%] [Min]	68
Relative Humidity [%] [Max]	72

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.098	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.024	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.035	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.73	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/05/16	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 - WORK PLACE MONITORING :-

Sampling Location	GT 05 Area
Date of Sampling	02/05/2023
Time of Sampling [Hrs.]	14:00
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	25
Ambient Temperature [°C] [Max]	36
Relative Humidity [%] [Min]	39
Relative Humidity [%] [Max]	76

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.089	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.025	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.031	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.76	55.0	IS 5182 (Part X) 1999

End

For GADARK LAB PVT. LTD.

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/05/17	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 - WORK PLACE MONITORING :-

Sampling Location	GT 01 Area
Date of Sampling	02/05/2023
Time of Sampling [Hrs.]	11:45
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	25
Ambient Temperature [°C] [Max]	36
Relative Humidity [%] [Min]	39
Relative Humidity [%] [Max]	76

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.094	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.020	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.028	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.73	55.0	IS 5182 (Part X) 1999

End

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TEST REPORT

Doc.No : GLPL/QF/7.8/03

Test Report No.	GA/23/05/18	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 - WORK PLACE MONITORING :-

Sampling Location	GT 02 Area
Date of Sampling	02/05/2023
Time of Sampling [Hrs.]	11:55
Duration of Sampling [Hrs]	2
Ambient Temperature [°C] [Min]	25
Ambient Temperature [°C] [Max]	36
Relative Humidity [%] [Min]	39
Relative Humidity [%] [Max]	76

ANALYSIS REPORT :-

Parameters	Unit	Results	Limits as per Factory Act	Sampling & Analysis Methods
SPM	mg/m ³	0.081	10.0	IS 5182 (Part IV) 1999
SO ₂	mg/m ³	0.024	5.0	IS 5182 (Part II) 2012
NO _x	mg/m ³	0.033	6.0	IS 5182 (Part VI) 2006
CO	mg/m ³	0.82	55.0	IS 5182 (Part X) 1999

End

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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



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

TEST REPORT

Doc. No: GLPL/QF/7.8/01

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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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 ^o 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 ^o 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	^o 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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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
[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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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

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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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

::: 2 :::

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
[SANTOSH V. ZULPE]

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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)
No:- Format1.0/CAC/UAN No.MPCB-
CONSENT-0000146287/CO/2301000400

Date: 03/01/2023

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.



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:

- i. 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.
- ii. The applicant shall file half-yearly return in Form VIII to the M.P.C. Board.
- iii. 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 Talaja 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, Talaja
 - 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 there of & 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/proposed	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/proposed	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 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.

Green Belt statement development :

EC Condition No.A (x): Green belt shall be provided in at least 25% of the plant area to mitigate the effects of fugitive emission all around the plant. Development of green belt shall be as per CPCB guidelines.

Compliance : Complied. 33.14 % of plot area is developed as Green belt. In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhavdi Village which is located near Dombivali which approximately 15 kms away from our site.

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.Mali Surveyor on behalf of Maharashtra Industrial Development Corporation and Shri. Navin 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. 05-1464 admeasuring area 8900.90 Sq.Mtr. of the Talsja Industrial Area Village PADAGHE, Tal-PANVEL, District-RANGAD after actual measurement and demarcation of the plot on the site (Actual Possession Date issued As 12/07/2021) As Per Office letter No.MIDC/RO/Panvel/D/91028/D/0567/2021)

Place - Talsja Industrial Area Date: 12.07.2021

Handed over by



Taken over by

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

Signature of the representative with his seal

MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION
(A Government of Maharashtra Undertaking)

POSSESSION RECEIPT

I, Avinash M.Mali Surveyor on behalf of Maharashtra Industrial Development Corporation and Shri. Navin 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. 05-1791 admeasuring area 1400.00 Sq.Mtr. of the Talsja Industrial Area Village TONDARE, Tal-PANVEL, District-RANGAD after actual measurement and demarcation of the plot on the site (Actual Possession Date issued As 12/07/2021) As Per Office letter No.MIDC/RO/Panvel/D/91028/D/0607/2021).

Place - Talsja Industrial Area Date: 12.07.2021

Handed over by



Taken over by

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

Signature of the representative with his seal

Official header with logos and text in Marathi: उपवनसंरक्षण, अतिवाहक, अतिवाहक, अतिवाहक. Includes registration details and dates.

Formal receipt text in Marathi detailing the handover of land possession for plot No. 05-1791. It includes a list of conditions for the possession.

12/07/2021 12:00:00 PM



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/23/04/71	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]

CHECKED BY

Note :

1. The results relate only to the samples tested.
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4. Customer complaint register is available at laboratory.



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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

For GADARK LAB PVT. LTD.

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[SACHIN B. GAONKAR]

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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/23/08/169	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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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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/23/07/153	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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SACHIN B. GAONKAR]

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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]

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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]

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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

- Sponcership to Diploma in ophthalmatry Students
- Tailoring Training
- Soft skill training

Aarogyam Project

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

Gyanam Project

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

Livelihood Inhancement Through Enterprenurship Development (LEED)

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

Community Development And Social Welfare Project

- Imrastructure 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:

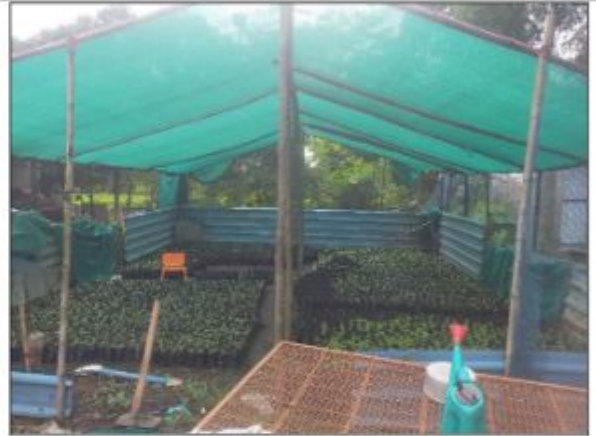
- Mobilization of community through project promotional meetings and exposure.
- Selection of beneficiaries and land
- Plantation of fruit and forestry trees.
- Development of eroded wasteland through soil and water conservation.
- Water resource development and water conveyance
- Cultivation of suitable 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



	No. of Fruiting Plants	Total Yield	Sold in the Market	Home Consumption	Total Income for sale of Mango
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; Trammg; 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 DFPCCL 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



शेतकऱ्यांना मिळाले दुग्ध व्यवसाय प्रशिक्षण

लोकमत न्यूज नेटवर्क
नवीन पनवेल : दीपक फर्टिलायझर्स अँड पेट्रोकेमिकल्स कॉर्पोरेशन व ईशान्य फाउंडेशनमार्फत पाले खुर्द येथे दुग्ध व्यवसाय प्रशिक्षण देण्यात आले.

या प्रशिक्षण कार्यक्रमाचे उद्घाटन दिनेशप्रताप सिंग (ईव्हीपी ऑपरेशन्स DFPCL) व सुनील कातकडे (पंचायत समिती पनवेल) यांच्या उपस्थितीत झाले. या प्रसंगी दुग्ध उत्पादक शेतकऱ्यांना डॉ. शोकांत शिकलपार (LSS पंचायत समिती पनवेल), श्रीहरी खाटावकर (एरिया मॅनेजर इंट्रास कंपनी) व प्रिनेश सरदे यांनी मार्गदर्शन केले. तसेच या कार्यक्रम प्रसंगी 900 कालवडीसाठी खाद्य व उद्योजकता विकास कार्यक्रम अंतर्गत व्यवसाय वृद्धित करण्यासाठी सहा महिलांना ब्युटी पार्लर व इतर साहित्याचे वाटप करण्यात आले.

Helo Navi Mumbai
Page No. 2 Jun 13, 2023
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तळोजा पाले खुर्द येथे दुग्ध व्यवसाय स्वयरोजगार प्रशिक्षण शिबिर उत्साहात

॥ तळोजा (व.) व्हेम फॅरिलझर्स हँड प्रोसेसिंग कॉर्पोरेशन व ईशान्य फाउंडेशन यांच्या संयुक्त प्रयत्नांवर अनेक शेतकरी स्वयरोजगार उद्योग सुरू करून घ्यायला सुरुवात झाली आहे. या प्रसंगी दुग्ध व्यवसाय प्रशिक्षण शिबिर आयोजित करण्यात आले. यावेळी डॉ. शोकांत शिकलपार (LSS पंचायत समिती पनवेल), श्रीहरी खाटावकर (एरिया मॅनेजर इंट्रास कंपनी) व प्रिनेश सरदे यांनी मार्गदर्शन केले. तसेच या कार्यक्रम प्रसंगी 900 कालवडीसाठी खाद्य व उद्योजकता विकास कार्यक्रम अंतर्गत व्यवसाय वृद्धित करण्यासाठी सहा महिलांना ब्युटी पार्लर व इतर साहित्याचे वाटप करण्यात आले.



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दीपक फर्टिलायझर्स कंपनीमार्फत वायव्यलय येथे मोफत जोळे तपासणी शिबिर आयोजित करण्यात आले. यावेळी डॉ. शोकांत शिकलपार (LSS पंचायत समिती पनवेल) यांच्या मार्गदर्शनाखाली शेतकरी स्वयरोजगार उद्योग सुरू करून घ्यायला सुरुवात झाली आहे. या प्रसंगी दुग्ध व्यवसाय प्रशिक्षण शिबिर आयोजित करण्यात आले. यावेळी डॉ. शोकांत शिकलपार (LSS पंचायत समिती पनवेल), श्रीहरी खाटावकर (एरिया मॅनेजर इंट्रास कंपनी) व प्रिनेश सरदे यांनी मार्गदर्शन केले. तसेच या कार्यक्रम प्रसंगी 900 कालवडीसाठी खाद्य व उद्योजकता विकास कार्यक्रम अंतर्गत व्यवसाय वृद्धित करण्यासाठी सहा महिलांना ब्युटी पार्लर व इतर साहित्याचे वाटप करण्यात आले.



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क्षयरुग्णांना पोषणयुक्त आहार

महापालिकेच्या आवाहानानंतर कळंबोली, खाटरमध्ये वाटप

महानगरपालिकेच्या आवाहानानंतर कळंबोली, खाटरमध्ये वाटप... (The text continues with details about the distribution of nutritious food for cancer patients, mentioning the local council and the beneficiaries.)

क्षयरुग्णांना पोषण आहाराचे वाटप दीपक फर्टिलायझर्स व पनवेल मनपाचा उपक्रम

दीपक फर्टिलायझर्स कंपनीमार्फत वायव्यलय येथे मोफत जोळे तपासणी शिबिर आयोजित करण्यात आले. यावेळी डॉ. शोकांत शिकलपार (LSS पंचायत समिती पनवेल) यांच्या मार्गदर्शनाखाली शेतकरी स्वयरोजगार उद्योग सुरू करून घ्यायला सुरुवात झाली आहे. या प्रसंगी दुग्ध व्यवसाय प्रशिक्षण शिबिर आयोजित करण्यात आले. यावेळी डॉ. शोकांत शिकलपार (LSS पंचायत समिती पनवेल), श्रीहरी खाटावकर (एरिया मॅनेजर इंट्रास कंपनी) व प्रिनेश सरदे यांनी मार्गदर्शन केले. तसेच या कार्यक्रम प्रसंगी 900 कालवडीसाठी खाद्य व उद्योजकता विकास कार्यक्रम अंतर्गत व्यवसाय वृद्धित करण्यासाठी सहा महिलांना ब्युटी पार्लर व इतर साहित्याचे वाटप करण्यात आले.

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



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

F. No. J-11011/218/2004- IA II (I)
Government of India
Ministry of Environment and Forests
(IA Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

E-mail: pb.rastogi@nic.in
Telefax : 011-24367668
Dated February 24, 2006

To,

✓
Shri S.C. Mehta
Managing Director
M/s Deepak Fertilizers & Petrochemicals Corpn. Ltd.
Plot No. 32, Sector – 16
Opp. Modern College, Vashi
Navi Mumbai – 400 705
Maharashtra.

Fax No. 022 – 2766 2620

Subject : Iso Propyl Alcohol (IPA, 70,000 MPTA) Project at MIDC Area, Talaja, Maharashtra by M/s Deepak Fertilizers & Petrochemicals Corporation Ltd.

Sir,

This has reference to your letter no. nil dated 8th June, 2005 alongwith EIA/EMP report and other related projects documents on the above subject seeking environmental clearance under the Environmental Impact Assessment Notification, 1994.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that the proposal is for environmental clearance to set up an Iso Propyl Alcohol manufacturing unit (70,000 MTPA) adjacent to existing plants in MIDC area, District Talaja, Maharashtra. 33,000 MTPA propane will be generated as by product. The project will be located in the industrial area of Talaja in 30.3492 ha. Iso Propyl Alcohol will be produced by direct hydration of Propylene across a catalyst bed. Air emissions from the boiler will be controlled by installing a stack of adequate height as per CPCB norms. 2,800 m³/d water will be required and will be met from MIDC supply for which prior permission has been obtained. The process effluent will be treated in ETP and will be sent to Common Effluent Treatment Plant (CETP) for further treatment at Talaja. Solid waste will be generated in the form of spent catalyst (Silica gel impregnated with Phosphoric acid) & used oil and will be sold to authorized reprocessors. Public hearing meeting was held on 18th October, 2005. 'NOC' has been accorded by the Maharashtra Pollution Control Board (MPCB) vide letter no. BO/RONM/65-05/E/CC/103 dated 25.04.2005. Total cost of the project is Rs. 153.7 Crores.

3.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under EIA Notification dated 27th January, 1994 as amended subsequently subject to strict compliance to the following conditions:

A. SPECIFIC CONDITIONS :

- i) The gaseous emissions (SO_2 , NO_x , NH_3 & HCl) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. The stack height shall be as per the Central Pollution Control Board guidelines. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Further, the company shall interlock the production system with the pollution control devices.
- ii) Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the MPCB.
- iii) The fugitive emissions in the work zone environment, product, raw material storage area shall be regularly monitored. The emissions shall be controlled and conform to the limits prescribed by the CPCB.
- iv) Total water requirement shall not exceed $2,800 \text{ m}^3/\text{d}$ as per the permission accorded by the MIDC vide letters dated 3.3.04 and 7.7.05. Further efforts shall be made for further conservation of water and utilization of waste water.
- v) The effluent generation shall not exceed $667 \text{ m}^3/\text{d}$. All the effluent shall be treated in the augmented Effluent Treatment Plant (ETP) and shall be monitored for the pH, SS, TDS, Oil & Grease, BOD, COD, Phosphates and Ammonical Nitrogen and other relevant parameters. All the treated effluent shall be sent to CETP at Taloja for further treatment. The domestic effluent shall be treated in the existing Sewage Treatment Plant (STP).
- vi) The company shall undertake following Waste Minimization measures :-
 - Metering and control of quantities of active ingredients to minimize waste.
 - Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - Use of automated filling to minimize spillage.
 - Use of "Close Feed" system into batch reactors.
 - Venting equipment through vapour recovery system.
 - Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- vii) The solid waste generated in the form ETP sludge shall be stored in the HDPE-lined secured landfill at the site. Spent catalyst and used oil shall be sold to authorized reprocessors.
- viii) The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000 and Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collection/treatment/storage/disposal of hazardous wastes.

- ix) The company shall develop surface/roof top rain water harvesting structures to harvest the run off water for recharge of ground water.
- x) Green belt shall be provided in at least 25 % of the plant area to mitigate the effects of fugitive emissions all around the plant. Development of green belt shall be as per the Central Pollution Control Board guidelines.
- xi) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

B. GENERAL CONDITIONS

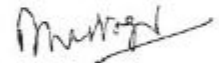
- i. The project authorities shall strictly adhere to the stipulations made by the Maharashtra Pollution Control Board (MPCB).
- ii. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
- iii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iv. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- v. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.
- vi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- vii. The project authorities shall earmark separate funds of Rs. 25.80 Lakhs to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- viii. The company shall undertake welfare measures and community development measures for the local people in the vicinity of the project area.

- ix. The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office at Bhopal / MPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.
- x. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the MPCB and may also be seen at Website of the Ministry at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Ministry's Regional Office at Bhopal.
- xi. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

4.0. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

5.0. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.


6.0. The above conditions will be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.



(Dr. P.B. RASTOGI)
Additional Director

Copy to:

1. The Secretary, Department of Environment and Forests, Govt. of Maharashtra, Mumbai - 400 001, Maharashtra.
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Link Road No.3, E - 5, Arera Colony, Bhopal - 462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman Maharashtra Pollution Control Board, Shri Chatrapati Shivaji Maharaj Municipal Market Building, 4th Floor, Mata Ramabai Ambedaker Road, Mumbai - 400 001, Maharashtra.
5. Joint Secretary (CCI-I) Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File.
8. Monitoring File.
9. Record File.



(Dr. P.B. RASTOGI)
Additional Director

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)
No:- Format1.0/CAC/UAN No.MPCB-
CONSENT-0000146287/CO/2301000400

Date: 03/01/2023

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.



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 Talaja 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, Talaja
 - 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 there of & 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/proposed	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/proposed	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 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.
