DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED

DFPCL-K1/EHS/Env/2020-21/02

Date: 25th May 2020

Additional Principal Chief Conservator of Forest (C),
Ministry of Environment, Forest & Climate Change,
Regional Office (WCZ),Ground Floor, East Wing,
New Secretariate Building, Civil Lines
Nagpur – 440 001, Maharashtra.

Reference:

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

Sub: Half yearly Environmental Clerance Compliance report.

Dear Sir,

Please find enclosed the half yeraly EC compliance report of **Gas Based Power plant** for the period of **October-2019 to March -2020**.

This is for your information and records please.

Thanking you,

Yours faithfully,

For, DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD.,

DEEPAK PANDE
Head (EHS)

CC :

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

FACTORY : Plot K-1, MIDC Industrial Area, Taloja 410 208, Dist. Raigad
Tel : +91 22 5068 4000 Fax : +91 22 2741 2413
CORPORATE OFFICE : Sai Hira, Survey No. 93, 25 / A1 and 25 / B1, CTS-1130, Mundhwa Ghorpadi Road, Mundhwa, Pune - 411 036
Tel.: 020-6645 8000 Website : www.dfpcl.com CIN : L24121MH1979PLCO21360

DATA SHEET

1		Project type: River - valley/ Mining / Thermal/ Industry / Nuclear/ Other (specify)	Gas Based Power Project
2		Name of the project	Gas based power project (2 X 5.2 MW and 1 X 7.5 MW) at their manufacturinf facility at MIDC, Taloja,Maharashtra by Deepak Fertilisers & Petrochemicals Corporation Limited
3		Clearance letter (s) /OM No. and Date	EC granted for Gas Based Power Project vide file no. (SEAC-2010/CR.656/TC.2 dt 11.05.2011).
4		Location	
	a.	District (S)	Raigad
	b.	State (S)	Maharashtra
	c.	Latitude/longitude	19°04'11.3"N/73°08'04.1"E
5		Address for correspondence	
	a.	Address of Concerned Project Chief Engineer (with pin code & Telephone/ telex/ fax numbers	Mr. Deepak Pande (Sr.GM-EHS), M/s Deepak Fertilisers & Petrochemicals Corporation Ltd. Plot No. K-1, MIDC Industrial area, Taloja, District Raigad – 410208, Maharashtra. Phone: - 022-50684221, 9920942161
	b.	Address of Executive Project: Engineer/Manager (with pincode/ Fax numbers)	Same as above
6		Salient features	
	a.	of the project	Gas Based Power Project for power generation for internal use.
	b.	of the environmental management plans	Gas Turbine inbuilt technology for NOx reduction. Periodic Environmental Monitoring for Ambient Air, Noise & Ground water
7		Break up of the project area	
	a.	submergence area forest & non forest	NA, (MIDC Land)
	b.	Others	NA
8		Break up of the project affected Population with enumeration of Those losing houses/dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan	NA, (MIDC Land)
	a.	SC, ST/Adivasis	NA, (MIDC Land)
	b.	Others (Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey)	NA
9		Financial details.	
	a.	Project cost as originally planned and subsequent revised estimates and the year of price reference	79 Crores
	b	Allocation made for environmental management plans with item wise and year wise Break-up.	Yes. Rs. 50,000 for plantation Year 2011-12 for Plot K-1 to K-8. Year **2012-13 for Plot K-1 to K-8**. 1) Rs 10 lakhs for plantation. **Year 2013-14 for Plot K-1 to K-8**. 1) Rs 5 lakhs for plantation. **Year 2014-15 for Plot K-1 to K-8**. 1) Rs 5 lakhs for plantation. 2) Rs 1.5 lakhs- Weather Monitoring Station. **Year 2015-16 for Plot K-1 to K-8**. 1) Rs 5 lakhs for plantation. **Year 2016-17 for Plot K-1 to K-8**. 1) Rs 5 lakhs for plantation. 2) Rs 3.9 lakhs - AMC for Online Emission & Effluent Quality Monitoring System. **Year 2017-18 for Plot K-1 to K-8**. 1) Rs 48 lakhs for plantation 2) Rs 3.9 lakhs - AMC for Online Emission & Effluent Quality Monitoring System. **Year 2018-19 for Plot K-1 to K-8**. 1) Rs 20.68 lakhs for plantation year 2018-19 for Plot K-1 to K-8. 2) Rs 3.9 lakhs - AMC for Online Emission & Effluent Quality Monitoring System. 3) Rs Rs 1 Crores – Diversion of positive discharge of treated effluent line from old to new MIDC chamber.
	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.	
	f.	Actual expenditure incurred on the environmental management plans so far	
10		Forest land requirement	
	a.	The status of approval for diversion of forest land for non-forestry use	NA, (MIDC Land)
	b	The status of compensatory afforestation program in the light of actual field experience so far	NA, (MIDC Land)
11		The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information	NA, (MIDC Land)
12		Status of construction	
	a.	Date of commencement (Actual and/or planned)	Year 2011
	b.	Date of completion (Actual and/of planned)	10 December 2012
13		Reasons for the delay if the Project is yet to start	NA
14		Dates of site visits	
	a.	The dates on which the project was monitored by the Regional Office on previous Occasions, if any	NA
	b.	Date of site visit for this monitoring report	NA
15		Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits)	NA

Environment Clearance for Gas Based Power Project (SEAC-2010/CR.656/TC.2 dated 11.05.2011) - Government of Maharashtra, Environment Department, Room No 217, 2nd Floor, Mantralaya Annexe, Mumbai - 400 032.		
SN	**Specific Conditions**	**Status of compliance as on 31/03/2020**
i)	Project proponent should confirm that, there is no increase in waste water & air pollutants discharged into environment due to proposed expansion.	Complied.
ii)	This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with request to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. Issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SLIAA) approved the proposed land use.	Noted.
iii)	'Consent for Establishment' shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment Department before start of any construction work at the site.	Complied with, CTE received on 10.12.2015.
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.	Complied
v)	No additional land shall be used / acquired for any activity of the project without obtaining proper permission.	Noted.
vi)	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.	The area in and around GT is paved and no dust is generated.

SN	Specific Conditions	Status of compliance as on 31/03/2020
vii)	Regular monitoring of the air quality, including SPM & SO_2 levels both in work zone and ambient air shall be carried out in and around the power plant and record shall be maintained. The location of the monitoring stations & frequency of monitoring shall be decided in consultation with MPCB & submit report accordingly to MPCB.	Three continuous monitoring AAQM stations are installed and these are connected to MPCB portal. These station monitors various parameters like PM10 &PM2.5, SO2, NOx & NH3 and CO. Work environment monitoring is done in the work zone through third party approved by MOEF. **(Annexure - 1)**
viii)	A detailed scheme for rain water harvesting shall be prepared and implemented to recharge ground water.	System for rain water harvesting is provided at existing WNA 3 & 4 plant.
ix)	Arrangement shall be made that effluent and storm water do not get mixed.	Effluent and storm water are having separate drains.
x)	Periodic monitoring of ground water shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the MPCB.	Periodic ground water monitoring is being carried out near ETP. Reports are submitted to MPCB. **(Annexure - 2)**
xi)	Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite PPE like earplugs, etc. Shall be provided.	Periodic noise monitoring by third party (MoEF Approved) laboratory is carried out at six different locations and ambient noise level is within the standards prescribed. Requisite PPE like earplugs, etc. are provided for people working in the high noise area.
xii)	Proper House keeping programmes shall be implemented.	5S program has been implemented to maintain proper House keeping.
xiii)	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. On all the sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the EPA, 1986 & Rules, 1989.	Periodic noise monitoring is done by MOEF approved 3rd party laboratory at six different locations and noise level is within the standards prescribed under EP Act,1986, Rules, 1989. **(Annexure - 3)**
xiv)	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species & in consultation with the local DFO / Agriculture Dept.	Complied with. Around 31 % of plot area is developed as Green belt. Addtional MIDC plot next to our premises is being aquired from MIDC to develop green belt which will meet the requirment of 33% green blet. In addition to this, green belt on 50 acre of degraded forest land is also developed at Dhavdi Village, near Dombivali, ~ 12-15 kms away from our site.

SN	Specific Conditions	Status of compliance as on 31/03/2020
xv)	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection & warning.	Leak detection devices such as gas detectors are provided at strategic places for early detection and warning. In built safety measures such as interlocks and trips are provided for critical process parameters. In addition to it onsite emergency control plan has also been prepared.
xvi)	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	Medical examination of all the workers is done in once in six months as per the factories act and records are maintained.
xvii)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Fire detection, fire protection and fire fighting arrangements have been provided in manufacturing process and in material handling areas. Company has a dedicated fire team and regular mock drills are conducted. Company also has two fire tenders
xviii)	The project authorities must strictly comply with the rules & regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management & Handling) Rules, 2003 (amended). Authorization from MPCB shall be obtained for collection/treatment/storage/disposal of hazardous waste.	Complied.
xix)	The company shall undertake following Waste Minimization Measures. a. Metering of quantities of active ingredients to minimize waste b. Reuse of by-products from the process as raw materials or as raw material substitutes in other process. c. Maximizing Recoveries. d. Use of automated material transfer system to minimize spillage. e. Use of "Closed Feed" system into batch reactors.	a) No active ingredient involved in GT b) There is no by product from GT c) Waste heat from GT is recovered to produce steam in HRSG. d) GT & HRSG operations are fully automated. e) As such there is no reactor in the GT however the feed system is closed one.
xx)	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	Regular mock drills for the on-site emergency management plan are carried out. On site emergency plan is reviewed and revised periodically. **(Annexure - 4)**
xxi)	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate Environmental Management Cell equipped with required facilities is set up.
xxii)	Transportation of ash will be through closed containers & all measures should be taken to prevent spilling of the ash.	Not applicable for GT as it is gas based.
xxiii)	Separate silos will be provided for collecting & storing bottom ash & fly ash.	Not applicable for GT as it is gas based.

SN	Specific Conditions	Status of compliance as on 31/03/2020
xxiv)	Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item wise break up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes & year-wise expenditure should be reported to the MPCB & this department.	Fund is utilized for implementation of environmental safeguard and details are reported to MPCB as part of Form V.
xxv)	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the MPCB and may also be seen at Website at http://envis.maharashtra.gov.in	Complied with.
xxvi)	Project management should submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms & conditions in hard & soft copies to the MPCB & this department on 1st June & 1st December of each calendar year.	Six monthly compliance reports are being sent to MPCB and regional office of MOEF. Last report was sent on 30th November 2019. Copy of the same is posted on the company's web-site.
xxvii)	A copy of clearance letter shall be sent by proponent to the concerned Municipal Corporation & the local NGO, if any, from whom suggestions / representations, if any were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied with. EC conditions compliances is posted on the website of the company. Advertisement for availability of EC copy on MoEF website was published in local newspaper 'Krushiwal' for any suggestions/representations.
xxviii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website & shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB & the SPCB. The criteria pollutant levels namely SPM, RSPM, SO_2, NO_2 (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the project shall be monitored & displayed at a convenient location near the main gate of the company in the public domain.	Six monthly compliance reports are being sent to MPCB and regional office of MOEF. Last report was sent on 30th November 2019. Copy of the same posted on the company's web-site. Three continuous monitoring AAQM stations are installed and connected to MPCB portal. These station monitors various parameters like PM10 & PM 2.5, SO2, NOx, NH3 & CO. This data is displayed at main gate. Stack emissions are also monitored periodically through the MOEF approved third party laboratory.
xxix)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB & the SPCB.	Six monthly compliance reports are being sent to MPCB and regional office of MOEF. Last report was sent on 30th November 2019.

SN	Specific Conditions	Status of compliance as on 31/03/2020
xxx)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions & shall also be sent to respective Regional Offices of MoEF by e-mail.	The environmental statement for each financial year ending 31st March in Form-V as is being submitted online to the MPCB before 30th September. Form V is also being uploaded on company website. (Form V was submitted online on 24.09.2019 for financial year 2018-19).
xxxi)	The environmental clearance is being issued without prejudice to the court case pending in the court of law & it does not mean that project proponent has not violated any environmental laws in the past & whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.	Noted
xxxii)	The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.	Noted.
xxxiii)	**Validity of Environment Clearance** - The Environmental Clearance accorded shall be valid for a period of 5 years to start of production operations.	Noted and complied.
xxxiv)	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the conditions imposed and to incorporate additional environmental protection measures required, if any.	Noted.
xxxv)	The above conditions would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981,the Environment (Protection) Act, 1986 and rules there under, Hazardous Wates (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.	Noted
xxxvi)	Any appeal against this environment clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30 days as prescribed under section 11 of the National Environmental Appellate Act, 1997.	Noted

List of Annexures Submitted	
Annexure. No.	Content
1	Ambient Air Monitoring Reports
2	Ground Water Monitoring Report
3	Ambient Noise Monitoring Reports
4	Mock Drill Report

Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
03.10.2019	05.10.2019	05.10.2019	08.10.2019	09.10.2019

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000005473P		
Location	: Gate No-4	Sample Code	: NL/AA/10/19/052

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	67.6	100
2	Particulate Matter ($PM_{2.5}$)	NL/AIR/SOP/03†	µg/m³	5	27.8	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	13.8	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	22.4	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	0.89	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	3.0	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	5	26.8	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	10.0	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	0.39	1
11	Arsenic (As)		ng/m³	1	BDL	6
12	Nickel (Ni)		ng/m³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	54.8	---
14	Sulfur Trioxide (SO_3)		µg/m³		BDL	---
15	Acid Mist	OSHA-165SG	µg/m³		2.9	---
16	Fluoride		µg/m³		BDL	---

Note :

1. * MDL – Method Detectible Limit.
2. ** BDL – Below Detectible Limit.
3. † Laboratory SOP, based on CPCB Guidelines Volumns I & II
4. Sampling done by Netel (India) Limited.
5. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.
6. This Test Report refers only to the sample tested.
7. The complaint register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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

Tel. : + 91 022 2760 7102 / 2760 7103
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E-mail : sales@netel-india.com
Website : www.netel-india.com
CIN : U74999MH2003PLC142228

ISO 9001:2015 TÜVRheinland CERTIFIED www.tuv.com ID 9105082996

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

स्वच्छ भारत
एक कदम स्वच्छता की ओर

Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
03.10.2019	05.10.2019	05.10.2019	08.10.2019	09.10.2019

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000005518P		
Location	: Near CFB Cooling Tower	Sample Code	: NIL/AA/10/19/087

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**58.9**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**30.8**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**12.1**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**17.2**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**1.18**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**2.3**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**28.8**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**8.1**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**0.25**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**32.7**	---
14	Sulfur Trioxide (SO_3)	0	µg/m³	0	**BDL**	---
15	Acid Mist	OSHA-165SG	µg/m³	0	**3.1**	---
16	Fluoride	0	µg/m³	0	**BDL**	---

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Pere
Technical Manager

End of Report

Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
05.10.2019	07.10.2019	07.10.2019	10.10.2019	11.10.2019

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000005519P		
Location	: Near IPA Gate	Sample Code	: NIL/AA/10/19/083

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	66.4	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	24.7	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	14.9	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	1	21.1	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	0.76	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	3.4	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	5	27.7	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	12.5	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	0.4	1
11	Arsenic (As)		ng/m³	1	BDL	6
12	Nickel (Ni)		ng/m³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	32.8	---
14	Sulfur Trioxide (SO_3)	0	µg/m³	0	BDL	---
15	Acid Mist	OSHA-165SG	µg/m³	0	1.2	---
16	Fluoride	0	µg/m³	0	BDL	---

Note :

1. * MDL – Method Detectible Limit.
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3. † Laboratory SOP, based on CPCB Guidelines Volumns I & II
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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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Address	: Taloja Plant Plot K-1, MIDC Industrial Area, P.O. Taloja Dist. Raigad 410208 Maharashtra
Customers Reference	: Work Order no. 4800055893, Dated 24.07.2019

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report Date
14.10.2019	16.10.2019	16.10.2019	19.10.2019	21.10.2019

Sample Type	: Ambient Air	Sample Qty & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC67091900C005713P		
Location	: NPK Production Unit	Sample Code	: NIL/AA/10/19/142

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**60.9**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**31.7**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**11.5**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**17.4**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**0.96**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**3.7**	5
7	Ammonia (NH_3)	IS-5182 Part-II (Method-401)	µg/m³	6	**29.2**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**7.6**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**0.28**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**63.9**	---
14	Sulfur Trioxide (SO_3)	0	µg/m³	0	**BDL**	---
15	Acid Mist	OSHA-165SG	µg/m³	0	**2.0**	---
16	Fluoride	0	µg/m³	0	**BDL**	---

Note :

1. * MDL – Method Detectible Limit.
2. ** BDL – Below Detectible Limit.
3. † Laboratory SOP, based on CPCB Guidelines Volumns I & II
4. Sampling done by Netel (India) Limited.
5. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.
6. This Test Report refers only to the sample tested.
7. The complaint register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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स्वच्छ भारत
एक कदम स्वच्छता की ओर

Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
15.10.2019	17.10.2019	17.10.2019	21.10.2019	22.10.2019

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC67091900000571 4P		
Location	: NPK Raw Material Storage Area	Sample Code	: NIL/AA/10/19/143

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**63.8**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**34.3**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**13.9**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**21.1**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**0.88**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**2.3**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**24.1**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**10.4**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**0.35**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**26.9**	---
14	Sulfur Tricxide (SO_3)	0	µg/m³	0	**BDL**	---
15	Acid Mist	OSHA-165SG	µg/m³	0	**1.9**	---
16	Fluoride	0	µg/m³	0	**BDL**	---

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
16.10.2019	18.10.2019	18.10.2019	21.10.2019	22.10.2019

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000005715P		
Location	: Main Gate	Sample Code	: NIL/AA/10/19/144

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**62.4**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**21.7**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**14.5**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**23.8**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**1.08**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**3.9**	5
7	Ammonia (NH_3)	SC Part-II (Method-401)	µg/m³	6	**44.6**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**7.4**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**0.20**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**36.2**	---
14	Sulfur Trioxide (SO_3)	0	µg/m³	0	**BDL**	---
15	Acid Mist	OSHA-165SG	µg/m³	0	**1.3**	---
16	Fluoride	0	µg/m³	0	**BDL**	---

Note :

1. * MDL – Method Detectible Limit.
2. ** BDL – Below Detectible Limit.
3. † Laboratory SOP, based on CPCB Guidelines Volumns I & II
4. Sampling done by Netel (India) Limited.
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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
21.11.2019	23.11.2019	23.11.2019	26.11.2019	27.11.2019

Sample Type	: Ambient Air	**Sample Qty. & Packing**	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006489P		
Location	: Main Gate	**Sample Code**	: NIL/AA/11/19/204

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**83.4**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**39.9**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**14.8**	80
4	Oxides of Nitrogen (NO_x)	IS-5182 (Part-06)	µg/m³	4	**23.8**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**1.19**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**1.3**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**45.0**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**11.0**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**43.7**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	IOMA Manual (Part 2)	µg/m³	1	**2.0**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.25**	---

Note :

1. * MDL – Method Detectible Limit.
2. ** BDL – Below Detectible Limit.
3. † Laboratory SOP, based on CPCB Guidelines Volumns I & II
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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
21.11.2019	23.11.2019	23.11.2019	26.11.2019	27.11.2019

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006490P		
Location	: NPK Gate No-4	Sample Code	: NIL/AA/11/19/205

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**74.4**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**37.3**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**11.6**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**17.6**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**1.16**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**1.9**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**33.0**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**10.6**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**63.8**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**3.4**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.39**	---

Note :

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2. ** BDL – Below Detectible Limit.
3. † Laboratory SOP, based on CPCB Guidelines Volumns I & II
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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
21.11.2019	23.11.2019	23.11.2019	26.11.2019	27.11.2019

Sample Type	: Ambient Air	**Sample Qty. & Packing**	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006491P		
Location	: NPK Raw Material Storage Area	**Sample Code**	: NIL/AA/11/19/206

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**83.0**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**42.5**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**11.3**	80
4	Oxides of Nitrogen (NO_x)	IS-5182 (Part-06)	µg/m³	4	**18.1**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**1.02**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**3.2**	5
7	Ammonia (NH_3)	IS-5182 Part-II (Method-401)	µg/m³	8	**41.1**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**9.0**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**41.5**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**1.3**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.22**	---

Note :

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2. ** BDL – Below Detectible Limit.
3. † Laboratory SOP, based on CPCB Guidelines Volumns I & II
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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
22.11.2019	23.11.2019	23.11.2019	26.11.2019	27.11.2019

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC6700100000006102P		
Location	: NPK Production Unit	Sample Code	: NIL/AA/11/19/207

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**62.5**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**33.0**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**10.0**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**15.5**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**0.95**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**4.3**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	0	**45.2**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**9.5**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**46.4**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**2.4**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.40**	---

Note :

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2. ** BDL – Below Detectible Limit.
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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
22.11.2019	23.11.2019	23.11.2019	26.11.2019	27.11.2019

Sample Type	: Ambient Air	**Sample Qty. & Packing**	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006493P		
Location	: Near IPA Gate	**Sample Code**	: NIL/AA/11/19/208

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**75.5**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**37.8**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**10.8**	80
4	Oxides of Nitrogen (NO_x)	IS-5182 (Part 06)	µg/m³	4	**16.7**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**1.09**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**3.6**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**41.1**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**13.8**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**54.6**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**1.9**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.29**	---

Note :

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2. ** BDL – Below Detectible Limit.
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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
22.11.2019	23.11.2019	23.11.2019	26.11.2019	27.11.2019

Sample Type	: Ambient Air	**Sample Qty. & Packing**	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006494P		
Location	: Near CFB Cooling Tower	**Sample Code**	: NIL/AA/11/19/209

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**69.8**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**26.5**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**10.4**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**15.9**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**0.97**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**2.4**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**34.0**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**8.6**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**33.6**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**2.6**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.24**	---

Note :

1. * MDL – Method Detectible Limit.
2. ** BDL – Below Detectible Limit.
3. † Laboratory SOP, based on CPCB Guidelines Volumns I & II
4. Sampling done by Netel (India) Limited.
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7. The complaint register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received	Analysis Started	Analysis Completed	Report on Date
20.12.2019	23.12.2019	23.12.2019	26.12.2019	27.12.2019

Sample Type	: Ambient Air	**Sample Qty. & Packing**	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006974P		
Location	: Main Gate	**Sample Code**	: NIL/AA/12/19/257

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**62.5**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**29.5**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**14.2**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**23.1**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	mg/m³	0.01	**1.19**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**2.7**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**32.9**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**11.6**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**0.29**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**26.2**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**3.0**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.20**	---
17	Hydrogen Chloride (HCl)	NIOSH 7903	mg/m³	0.01	**0.08**	---

Note :

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2. ** BDL – Below Detectible Limit.
3. † Laboratory SOP, based on CPCB Guidelines Volumns I & II
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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

A Neterwala Group Company

End of Report

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Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received	Analysis Started	Analysis Completed	Report on Date
19.12.2019	21.12.2019	21.12.2019	24.12.2019	25.12.2019

Sample Type	: Ambient Air	**Sample Qty. & Packing**	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006975P		
Location	: NPK Gate No. 4	**Sample Code**	: NIL/AA/12/19/258

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**73.4**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**39.5**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**10.6**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**15.1**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	mg/m³	0.01	**0.99**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**4.0**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**35.4**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**8.4**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**0.19**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**37.4**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**2.8**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.38**	---
17	Hydrogen Chloride (HCl)	NIOSH 7903	mg/m³	0.01	**0.12**	---

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

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Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received	Analysis Started	Analysis Completed	Report on Date
20.12.2019	23.12.2019	23.12.2019	26.12.2019	27.12.2019

Sample Type	: Ambient Air	**Sample Qty. & Packing**	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006979P		
Location	: Near CFB Cooling Tower	**Sample Code**	: NIL/AA/12/19/262

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**65.7**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**33.4**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**11.1**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**17.8**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	mg/m³	0.01	**0.99**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**3.1**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**36.1**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**9.6**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**0.17**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**44.3**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**2.5**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.17**	---
17	Hydrogen Chloride (HCl)	NIOSH 7903	mg/m³	0.01	**0.10**	---

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

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Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received	Analysis Started	Analysis Completed	Report on Date
20.12.2019	23.12.2019	23.12.2019	26.12.2019	27.12.2019

Sample Type	: Ambient Air	**Sample Qty. & Packing**	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006977P		
Location	: Near IPA Gate	**Sample Code**	: NIL/AA/12/19/260

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**59.5**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**30.8**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**10.2**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**16.5**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	mg/m³	0.01	**1.15**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**4.0**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**32.7**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**11.4**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**0.38**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**50.6**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**1.4**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.39**	---
17	Hydrogen Chloride (HCl)	NIOSH 7903	mg/m³	0.01	**0.09**	---

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

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Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received	Analysis Started	Analysis Completed	Report on Date
19.12.2019	21.12.2019	21.12.2019	24.12.2019	25.12.2019

Sample Type	: Ambient Air	**Sample Qty. & Packing**	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006976P		
Location	: NPK Raw Material Storage Area	**Sample Code**	: NIL/AA/12/19/259

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**71.3**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**37.8**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**10.6**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**16.7**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	mg/m³	0.01	**0.97**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**1.1**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**24.9**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**10.2**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**0.40**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**60.0**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**1.7**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.27**	---
17	Hydrogen Chloride (HCl)	NIOSH 7903	mg/m³	0.01	**0.17**	---

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

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Technical Manager

End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received	Analysis Started	Analysis Completed	Report on Date
19.12.2019	21.12.2019	21.12.2019	24.12.2019	25.12.2019

Sample Type	: Ambient Air	**Sample Qty. & Packing**	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000006978P		
Location	: NPK Production Unit	**Sample Code**	: NIL/AA/12/19/261

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**58.2**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**31.3**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**11.9**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**17.3**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	mg/m³	0.01	**0.96**	2 for 8 hrs.
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**4.0**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**30.6**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**9.6**	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**0.32**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**61.1**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**1.6**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.16**	---
17	Hydrogen Chloride (HCl)	NIOSH 7903	mg/m³	0.01	**0.14**	---

Note :

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2. ** BDL – Below Detectible Limit.
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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

A Neterwala Group Company

End of Report

W-408, Rabale MIDC,
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Regd. office : Liberty Building, 3rd Floor, Sir Vithaldas Thackersey Marg, (New Marine Lines), Mumbai - 400 020. Tel. : 22066231 / 61

स्वच्छ भारत
एक कदम स्वच्छता की ओर

NETEL

Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
20.01.2020	22.01.2020	22.01.2020	25.01.2020	27.01.2020

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670920000000398P		
Location	: Main Gate	Sample Code	: NIL/AA/01/20/177

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	CPCB Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**63.5**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**24.7**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**13.3**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**20.5**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**0.91**	2000
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**1.8**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**15.1**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**13.2**	100
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**22.6**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**3.8**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.26**	---

Note :

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

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एक कदम स्वच्छता की और

Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
20.01.2020	22.01.2020	22.01.2020	25.01.2020	27.01.2020

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670920000000399P		
Location	: NPK Gate No. 4	Sample Code	: NIL/AA/01/20/178

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	CPCB Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**52.8**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**19.1**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**13.1**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**19.9**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**0.98**	2000
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**2.2**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**28.7**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**11.8**	100
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**26.0**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**3.2**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.19**	---

Note :

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2. ** BDL – Below Detectible Limit.
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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

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Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
21.01.2020	23.01.2020	23.01.2020	27.01.2020	28.01.2020

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670920000000400P		
Location	: Near CFB Cooling Tower	Sample Code	: NIL/AA/01/20/182

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	CPCB Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**58.5**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**24.7**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**18.0**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**26.8**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**1.23**	2000
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**3.2**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**15.1**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**13.9**	100
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**37.0**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**2.8**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.29**	---

Note :

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Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

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NETEL

Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
20.01.2020	22.01.2020	22.01.2020	25.01.2020	27.01.2020

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670920000000401P		
Location	: Near IPA Gate	Sample Code	: NIL/AA/01/20/179

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	CPCB Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**60.9**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**22.6**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**13.2**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**19.9**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**1.17**	2000
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**2.0**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**33.9**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**12.9**	100
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**26.7**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**3.3**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.30**	---

Note :

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AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
21.01.2020	23.01.2020	23.01.2020	27.01.2020	28.01.2020

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670920000000402P		
Location	: NPK Raw Material Storage Area	Sample Code	: NIL/AA/01/20/180

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	CPCB Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**53.5**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**20.0**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**16.8**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**21.5**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**1.04**	2000
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**2.4**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**20.5**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**8.1**	100
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**44.8**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**2.3**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.21**	---

Note :

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AMBIENT AIR QUALITY MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
21.01.2020	23.01.2020	23.01.2020	27.01.2020	28.01.2020

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670920000000403P		
Location	: NPK Production Unit	Sample Code	: NIL/AA/01/20/181

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	CPCB Limit
1	Particulate Matter (PM_{10})	IS-5182 (Part-23)	µg/m³	10	**54.9**	100
2	Particulate Matter ($PM_{2.5}$)	NIL/AIR/SOP/03†	µg/m³	5	**20.8**	60
3	Sulphur Dioxide (SO_2)	IS-5182 (Part-02)	µg/m³	6.5	**9.8**	80
4	Oxides of Nitrogen (NO_X)	IS-5182 (Part-06)	µg/m³	4	**15.1**	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m³	10	**1.19**	2000
6	Benzene (C_6H_6)	IS-5182 (Part-11)	µg/m³	1	**2.1**	5
7	Ammonia (NH_3)	ISC Part-II (Method-401)	µg/m³	6	**23.7**	400
8	Ozone (O_3)	IS-5182 (Part-09)	µg/m³	1	**8.7**	100
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m³	0.5	**BDL**	1
10	Lead (Pb)	APHA - Air 3rd Edition (Method 822)	µg/m³	0.1	**BDL**	1
11	Arsenic (As)		ng/m³	1	**BDL**	6
12	Nickel (Ni)		ng/m³	1	**BDL**	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m³	1	**24.6**	---
14	Sulfur Trioxide (SO_3)	By Calculation	µg/m³	8	**BDL**	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m³	1	**3.0**	---
16	Fluoride	IS-5182 (Part-13)	µg/m³	0.1	**0.22**	---

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

GROUND WATER MONITORING REPORT

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

Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date
20.01.2020	20.01.2020	21.01.2020	24.01.2020	24.01.2020

Sample Type	: Water	Sampling done by	: Netel (India) Limited
ULR Number	: TC670920000000324P	Container / Qtn.	: Plastic can (2 lit)
Sampling Location	: Near ETP Ground Water - B.W	Sample Code	: NIL/W/01/20/180

Sr. No.	Test Parameter	Method	Unit	MDL*	Result	Specification as per IS 10500:2012
1	Temperature	APHA 2550-B	°C	0.1	**23.9**	---
2	Colour	IS 3025 (Part 4)	Hazen	5	**7**	15
3	Odour	APHA 2150-A	–	---	**Agreeable**	Agreeable
4	pH	IS 3025 (Part 11)	–	0.5 - 13.5	**7.03**	6.0 - 8.5
5	Electrical Conductivity	IS 3025 (Part 14)	mS/cm	0.05	**3.339**	---
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/lit	5	**1170**	2000
7	COD	IS 3025 (Part 58)	mg/lit	10	**<10**	250
8	Chloride	APHA 4500-Cl	mg/lit	2.5	**16.4**	250
9	Sulphate	APHA 4500-SO4-E	mg/lit	5	**170.0**	200
10	Fluoride	APHA 4500-F-D	mg/lit	0.2	**0.3**	1
11	Nitrate	IS 3025 (Part 34)	mg/lit	0.05	**8.3**	45
12	Nitrite	IS 3025 (Part 34)	mg/lit	0.01	**2.5**	---
13	Phosphate	APHA 4500-P-C	mg/lit	1	**BDL**	---
14	Sodium	IS 3025 (Part 45)	mg/lit	0.05	**83.2**	---
15	Potassium	IS 3025 (Part 45)	mg/lit	0.05	**BDL**	---
16	Iron	APHA 3111-B	mg/lit	0.03	**0.10**	0.3
17	Magnesium	IS 3025 (Part 21 & 40)	mg/lit	5	**13**	30
18	Manganese	APHA 3111-B	mg/lit	0.01	**0.01**	0.1
19	Mercury	APHA 3112-B (by FIAS)	mg/lit	0.001	**BDL**	0.001
20	Cadmium	APHA 3111-B	mg/lit	0.001	**BDL**	0.003
21	Selenium	APHA 3111-B	mg/lit	0.005	**BDL**	0.01
22	Arsenic	APHA 3114-C	mg/lit	0.005	**BDL**	0.01
23	Lead	APHA 3111-B	mg/lit	0.01	**BDL**	0.01
24	Silver	APHA 3111-B	mg/lit	0.05	**BDL**	0.1
25	Zinc	APHA 3111-B	mg/lit	0.01	**BDL**	5
26	Nickel	APHA 3111-B	mg/lit	0.01	**BDL**	0.02
27	Aluminium	APHA 3111-B	mg/lit	0.02	**BDL**	0.03
28	Copper	APHA 3111-B	mg/lit	0.01	**BDL**	0.05
29	Molybdenum	APHA 3111-B	mg/lit	0.01	**BDL**	0.07
30	Boron	APHA 4500-B	mg/lit	0.2	**BDL**	0.5

Sampling Location : Near ETP Ground Water - B.W				Sample Code : NIL/W/01/20/180		
Sr. No.	Test Parameter	Method	Unit	MDL*	Result	Specification as per IS 10500:2012
31	Total Chromium (as Cr)	APHA 3111-B	mg/lit	0.01	**BDL**	0.05
32	Hexavalent Chromium (Cr6+)	APHA 3500-Cr-B	mg/lit	0.1	**BDL**	---
33	Cobalt	APHA 3111-B	mg/lit	0.01	**BDL**	---
34	Calcium	IS 3025 (Part 40)	mg/lit	5	**65**	75
35	Carbonate	IS 3025 (Part 23)	mg/lit	5	**0.0**	---
36	Bicarbonate	IS 3025 (Part 23)	mg/lit	5	**226.6**	---
37	Total Coliform	IS 1622 : 1981	MPN/100ml	0	**Absent**	Absent
38	Faecal Coliform	IS 1622 : 1981	–	0	**Absent**	Absent

Note :

1. MDL – Method Detectible Limit.
2. BDL – Below Detectible Limit.
3. This Test Report shall not be reproduced except in full, without written approval of the Laboratory.
4. This Test Report refers only to the sample tested.
5. The complaint register is available with the Laboratory as per Environment Protection Act, 1986.

Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

NOISE LEVEL MONITORING REPORT

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

Instrument Model	: Lutron SL-4033-SD (Class 1)	Instrument Serial No.	: Q640792
Date of Sampling	: 03.10.2019	Date of Calibration	: 17.09.2019
Date of Reporting	: 06.10.2019	Next Calibration Due	: 16.09.2020

Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	73.4	75	69.4	70
2	NPK Gate No. 4	61.9	75	55.4	70
3	NPK Raw Material Storage Area	65.2	75	68.7	70
4	NPK Production Unit	62.2	75	63.6	70
5	Near IPA Gate	69.9	75	69.4	70
6	Near CFB Cooling Tower	72.1	75	67.8	70
7	Ammonia Unloading	73.3	75	69.5	70
8	K-6 Plot (Near Main Gate)	69.9	75	68.6	70

Note :

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

Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

NOISE LEVEL MONITORING REPORT

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

Instrument Model	: Lutron SL-4033-SD (Class 1)	Instrument Serial No.	: Q640792
Date of Sampling	: 22.11.2019	Date of Calibration	: 17.09.2019
Date of Reporting	: 26.11.2019	Next Calibration Due	: 16.09.2020

Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	**72.9**	75	**69.0**	70
2	NPK Gate No. 4	**60.0**	75	**54.8**	70
3	NPK Raw Material Storage Area	**66.5**	75	**68.7**	70
4	NPK Production Unit	**64.1**	75	**61.7**	70
5	Near IPA Gate	**71.8**	75	**69.8**	70
6	Near CFB Cooling Tower	**69.9**	75	**69.4**	70
7	Ammonia Unloading	**72.1**	75	**68.6**	70
8	K-6 Plot (Near Main Gate)	**71.3**	75	**69.7**	70

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

Netel (India) Limited

NOISE LEVEL MONITORING REPORT

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

Instrument Model	: Lutron SL-4033-SD (Class II)	Instrument Serial No.	: Q640792
Date of Sampling	: 20.12.2019	Date of Calibration	: 17.09.2019
Date of Reporting	: 24.12.2019	Next Calibration Due	: 16.09.2020

Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	**74.4**	75	**63.7**	70
2	NPK Gate No. 4	**59.4**	75	**58.0**	70
3	NPK Raw Material Storage Area	**67.8**	75	**65.3**	70
4	NPK Production Unit	**64.1**	75	**62.8**	70
5	Near IPA Gate	**73.2**	75	**69.6**	70
6	Near CFB Cooling Tower	**69.2**	75	**66.7**	70
7	Ammonia Unloading	**72.8**	75	**62.3**	70
8	K-6 Plot (Near Main Gate)	**72.0**	75	**69.8**	70

Note :

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Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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

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E-mail : sales@netel-india.com
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स्वच्छ भारत
एक कदम स्वच्छता की ओर

NOISE LEVEL MONITORING REPORT

Name of Organization	: M/s Reliance Industries Limited
Address	: Nagothane, Taluka Roha, District Raigad - 402 125
Customers Reference	: Work Order No. NN0/230030690, Dated 25.05.2017

Instrument Model	: Lutron SL-4033-SD (Class 1)	Instrument Serial No. :	Q640792
Date of Sampling	: 21.01.2020	Date of Calibration	: 27.09.2019
Date of Reporting	: 24.01.2020	Next Calibration Due :	28.09.2020

Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	**69.1**	75	**65.0**	70
2	NPK Gate No. 4	**56.7**	75	**56.8**	70
3	NPK Raw Material Storage Area	**71.3**	75	**68.4**	70
4	NPK Production Unit	**58.6**	75	**56.3**	70
5	Near IPA Gate	**64.2**	75	**64.4**	70
6	Near CFB Cooling Tower	**71.8**	75	**69.4**	70
7	Ammonia Unloading	**61.9**	75	**60.2**	70
8	K-6 Plot (Near Main Gate)	**72.5**	75	**67.8**	70

Note :

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

Verified by:

Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Technical Manager

End of Report

DEEPAK FERTILISERS
AND PETROCHEMICALS
CORPORATION LIMITED

Ref: DFPCL/EHS/DISH/036

Date: 13th Feb 2020

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

Subject: Submission of Mock drill Report of DFPCL – K6 unit Drumming plant.

Respected Sir,

We are submitting herewith the report of mock drill, which was conducted on 30th January 2020 at Drumming plant of K-6 DFPCL, at 16:00 hrs. for information and record.

Please acknowledge receipt of the same.

Thanking you,

Yours Truly,
For Deepak Fertilisers & Petrochemicals pvt ltd.

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

17/2/2020
कार्यालय-सहसंचालक औद्योगिक
सुरक्षा व आरोग्य (रायगड)
कोकण भवन, विस्तारित कक्ष
६ वा मजला बेलापूर, नवी मुंबई-४०० ६१४

FACTORY : Plot K-1, MIDC Industrial Area, Taloja 410 208, Dist. Raigad
Tel : +91 22 5068 4000 Fax : +91 22 2741 2413
CORPORATE OFFICE : Sai Hira, Survey No. 93, 25 / A1 and 25 / B1, CTS-1130, Mundhwa Ghorpadi Road, Mundhwa, Pune - 411 036
Tel.: 020-6645 8000 Website : www.dfpcl.com CIN : L24121MH1979PLCO21360

	Mock Drill Reporting Format	Prepared by:	Checked by:	Approved by:
	EHS/Safety/SOP-11/F-01	AGM EHS	GM - EHS	HOD-EHS
	DFPCL K-1 -K-5 & K6	Version	2.0	Date:1-Jun-16

Report on On-site Emergency Mock drill (Level-2)

1.0	**Date of Mock drill**	30.01.2020
2.0	**Time of Mock Drill**	16:00 Hrs.
3.0	**Location of Incident / Mock drill**	Drumming plant K-6
4.0	**Type of emergency / Scenario**	Isopropyl alcohol (IPA) leak at supply line due to flange leak leading to fire and burn injury (Level-2)
5.0	**Details of Members involved in Mock drill:**	1. Mr. Vijay Joshi (Chief Emergency Controller) 2. Mr. Wadheendra Nanjangud & Mr. Pimple (Incident controller) 3. Mr. Nitin Salavkar (Fire team leader) 4. Mr. Nitin Patil (Primary Observer - Drumming plant) 5. Mr. Subhash Rana (Security S/I) 6. Mr. Satish Sohani (OHC) 7. Mr. Pravin Pawar (Adjacent control room) 8. Mr. Shashank Narvekar (Mechanical)
6.0	**Observer's Location**	1. Emergency Control centre (Mr.Sanjay Bakshi) 2. Incident Site (Mr.Sanjay Landge) 3. Adjacent control room (Mr.Sunil Bhave) 4. Occupational Health Centre (Mr Vijay Khare) 5. IPA Control Room (Mr Subodh Mhatre)

7.0 Communication and Action

Sr. No.	Time Hrs.	Actions taken	Observation / Comment
I) Action by Primary observer:			
1	16:07 Hrs	Informed to Drumming Shift In-charge Mr. Pimple about the IPA leak - in person	
2	16:07 Hrs	Informed about wind direction based on nearby wind sock	
II) Action by control room:			
1	16:08 Hrs	Received Message from field operator about IPA leak.	
2	16:08 Hrs	Information about the IPA leak given to IPA C/R & Emergency control centre	
III) Action at Field:			
1	16:09 Hrs	Emergency push button operated to stop the IPA	
2	16:10 Hrs	Shift In-charge arrived at site. .	
3	16:10 Hrs	Alert siren sounded to alert the people working in the area	
4	16:11 Hrs	Evacuation siren sounded to evacuate the people working in the area	
5	16:11 Hrs	Fire & OHC crew along with Fire tender, fire jeep and ambulance arrived at incident site & parked the vehicles considering the wind directions.	
6	16:11 Hrs	Area In-charge arrived at site. .	
7	16:12 Hrs	Emergency crew shifted semi-cautious casualty by ambulance to OHC for further treatment.	

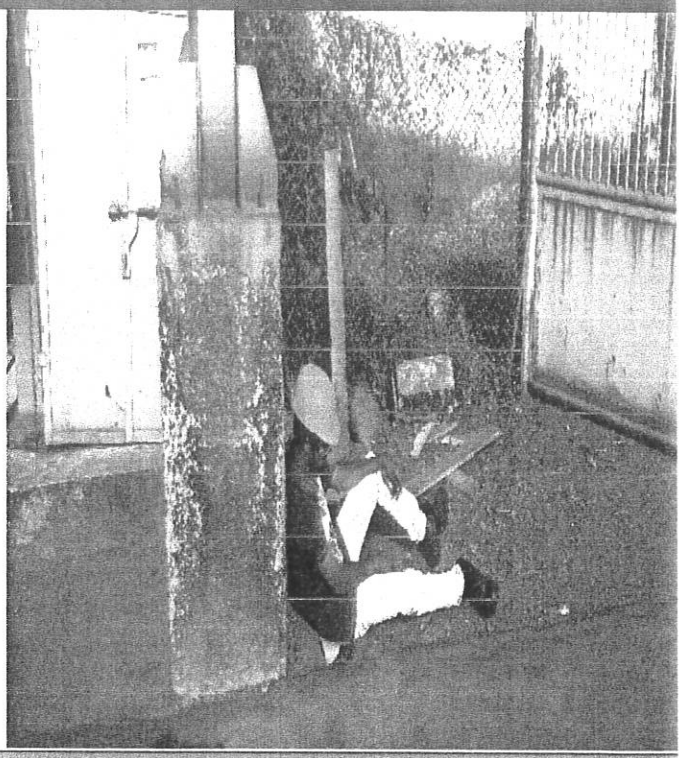
8	16:12 Hrs	Emergency crew members started foam application over the IPA spilled area by wearing SCBA & Fire retardant suit	
9	16:13 Hrs	Bunding arrangement also done on drain to contain the spill IPA	
10	16:13 Hrs	Entire Spilled area covered with AR-AFFF foam	
11	16:16 Hrs	Area In-charge informed Security In-charge to blow the "ALL CLEAR" siren.	
IV) Action by Site Incident Controller (SIC):			
1	16:11 Hrs	Incident controller (Area In charge) arrived at site • Taken over charge from shift In-charge. • Directed to fire dept. to use foam to cover the spill IPA. • Continuous communication with CEC for updating situation at incident site. -Taken information about casualty.	
2	16:14 Hrs	Ensured the pump has stopped to avoid the further IPA spillage	
3	16:16 Hrs	After controlling the emergency, incident controller informed to Chief Emergency Controller and blown "ALL CLEAR" siren.	
V) Action by Chief Emergency Controller (CEC):			
1	16:09 Hrs	Message received from Security In-charge	
2	16:10 Hrs	Reached to the Emergency Control room and taken the charge.	
5	16:11 Hrs	In Contact with Site incident controller. Checking & guiding on status of incident, checked for IPA leak, its spread, casualty etc. Mobilised Maintenance's crew for the attending the leak.	
VI) Action by Fire crew / Fire shift In Charge:-			
1	16:08 Hrs	On receipt of the message about emergency, fire shift In-charge handed over the charge to security shift In-charge & turned out to incident site immediately with fire tender, fire jeep & ambulance .	
2	16:11 Hrs	Fire & OHC crew along with fire tender, fire jeep and ambulance arrived at incident site.	
3	16:12 Hrs	Emergency crew member find one semi-unconscious (Burn injury) casualty at site. The said casualty has been immediate shifted to OHC for further treatment.	
4	16:13 Hrs	Emergency crew member started foam application over the IPA spilled area by wearing SCBA & Fire suit	
5	16:13 Hrs	Bunding arrangement also done on drain to contain the spill IPA	
6	16:13 Hrs	Entire Spilled area covered with AR-AFFF foam	
VII) Action by Security shift In charge:-			

1	16:09 Hrs	Arrived at emergency control centre and took charge from fire shift In-charge.	
2	16:09 Hrs	Informed to CEC, EHS head and HR Head about the incident.	
4	16:16 Hrs	Head counting done at K6 Main gate by security supervisor	
VIII) Action by Male Nurse / FMO (OHC Team):-			
1	16:08 Hrs	Call received from Fire Mgr. Inform to ambulance driver to reach location.	
2	16:09 Hrs	Ambulance turn out. Inform to FMO	
3	16:14 Hrs	Casualty reported at OHC	
4	16:15 Hrs	Immediately required treatment has been given to the casualty, checked its BP, pulse etc..	
IX) Action to reduce the Environmental Impact:-			
1	Bund placed on the drain channels. Asked to arrange tankers to treat contaminated water in the ETP.		
8.0	**COMMENT ON RESOURCES:-**		
1	Resources found adequate.		
9.0	**POSITIVE POINTS / SHORT COMING OF THE DRILL:-**		
	Positive Points		
1	Communication at incident control room & at field was good.		
2	Incident controller briefed the incident to emergency control centre correctly & informed about the actions they are taking to control the incident.		
3	All actions by Primary observer ,Incident control room, Site incident controller,Emeregency crew members, FMO and security were prompt		
	Short coming		
1	Traffic observed near the IPA gate which increase the Emergency response time		
2			
10.0	**RECOMMENDATIONS:**		
S.N.	**Recommendations:**	**Responsibility**	**Target Date**
1	Alternate communication system to be provide for Drumming unit (e.g. Hotline , Walkie-Talkie PA system etc..)	Mr. Sunil Bhave/ Mr. S Mokashi	30.05.20
2	The security position of the K6 - the rotation of the security personnel should be minimised to ensure/routine trained person availability	Sameer Athavale	Contineous/Ongoing
3	Awareness session to be conducted regularly for Drumming plant employee & contract worker on subject of onsite Emergency plant & practice demonstration of Fire fighting equipment	Mr. Anil Kadam / Mr. Rakesh Mhatre	Schedule to be prepared for Half yearly refresher training by 20.02.20

1	**Name of the Site Incident controller**	Mr. Wadheendra Nanjangud	
	Signature of the Site Incident controller		
2	**Name of the Chief Emergency Controller**	Mr. Vijay Joshi	
	Sign of the Chief Emergency controller		

MOCK DRILL AT DRUMMING PLANT DT. 31.01.2020

Primary observer rushed towards Drumming C/R

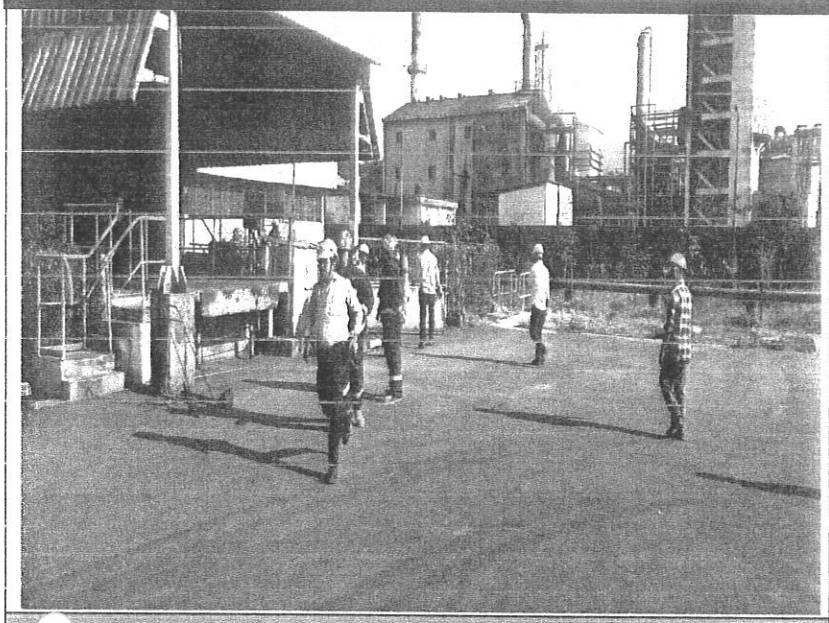


Casualty at Incident site

Security guard try to extinguish the Fire

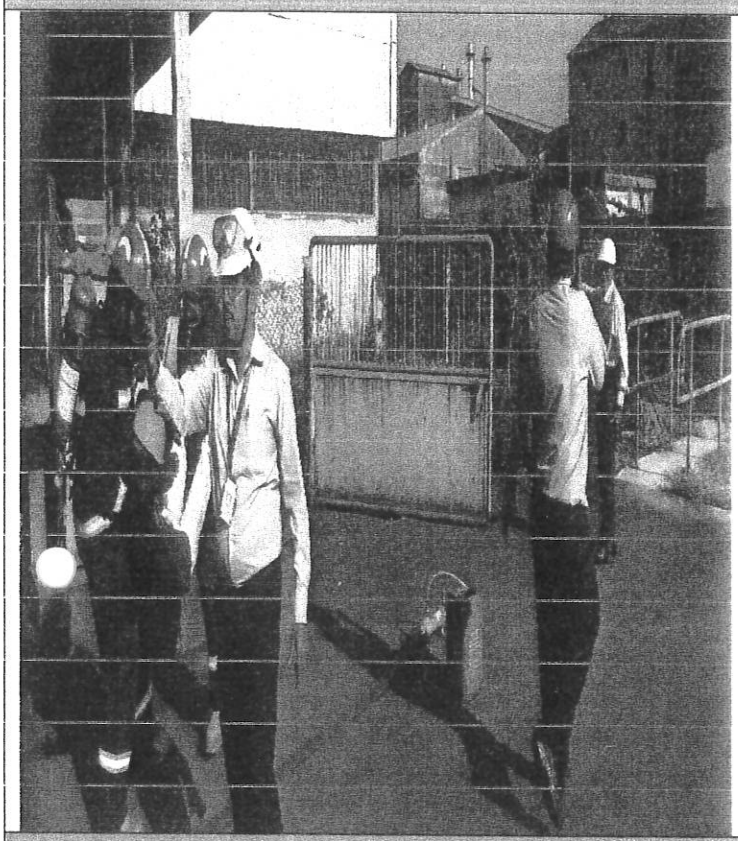
Fire crew arrival at Site Fire S/I guided crew members fo
Emergency Mitigation

MOCK DRILL AT DRUMMING PLANT DT. 31.01.2020

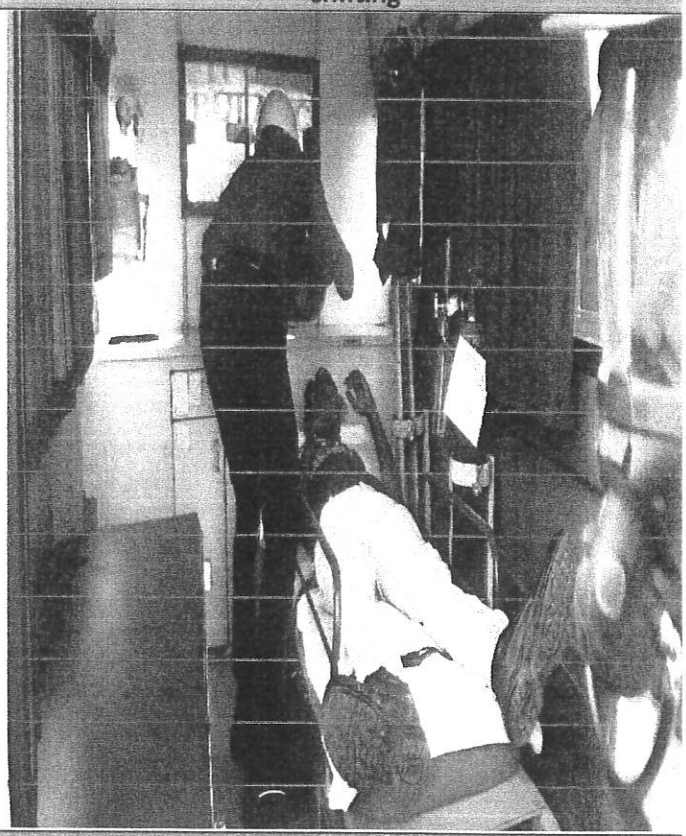


Fire Shift-In charge in action at Site

Incident controller guided crew members for casualty shifting

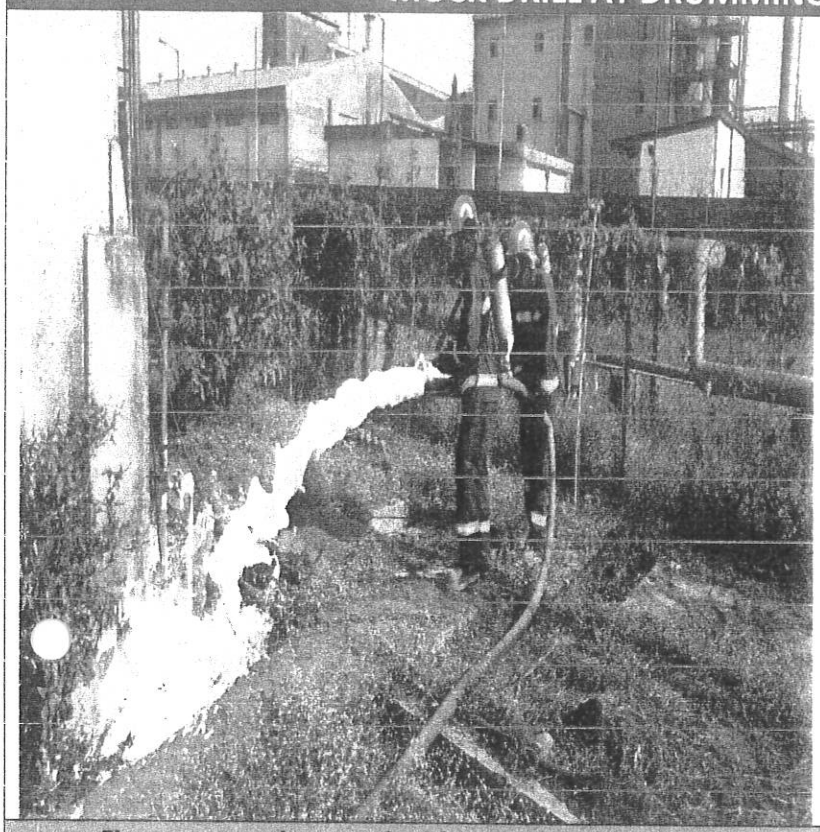


Incident controller updated emergency to CEC Operation & Engineering head arrived at site

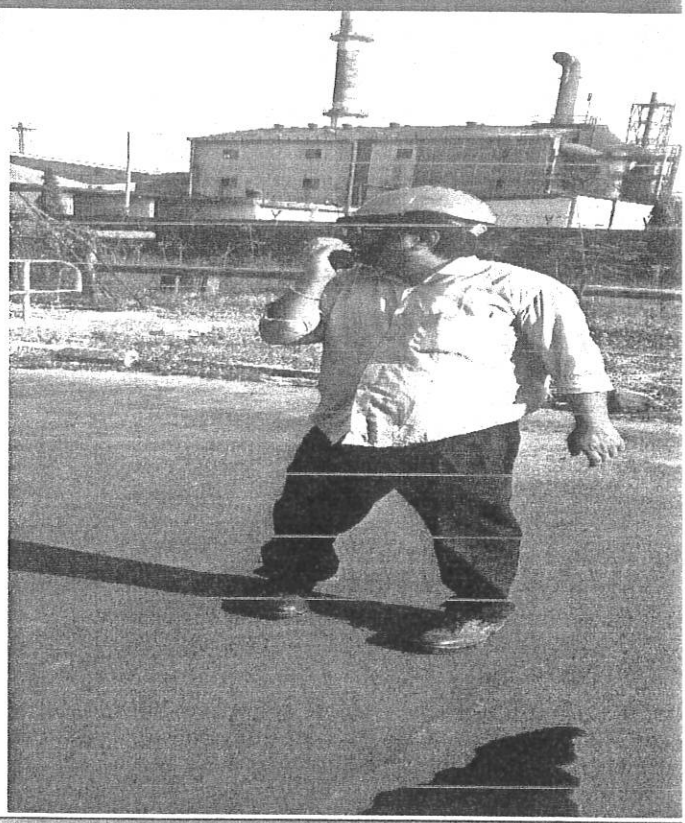


Casualty shifted to OHC

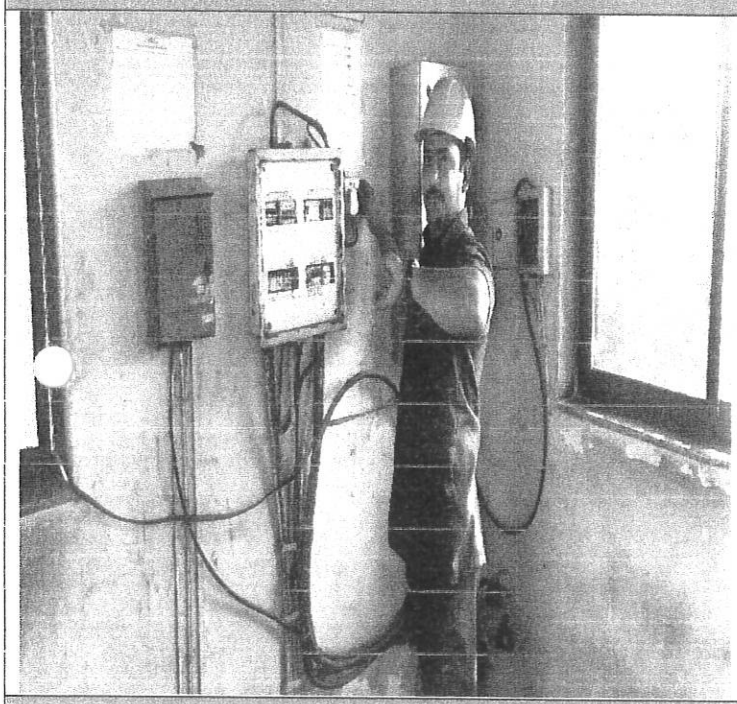
MOCK DRILL AT DRUMMING PLANT DT. 31.01.2020



Fire crew members applied foam on IPA spilled area



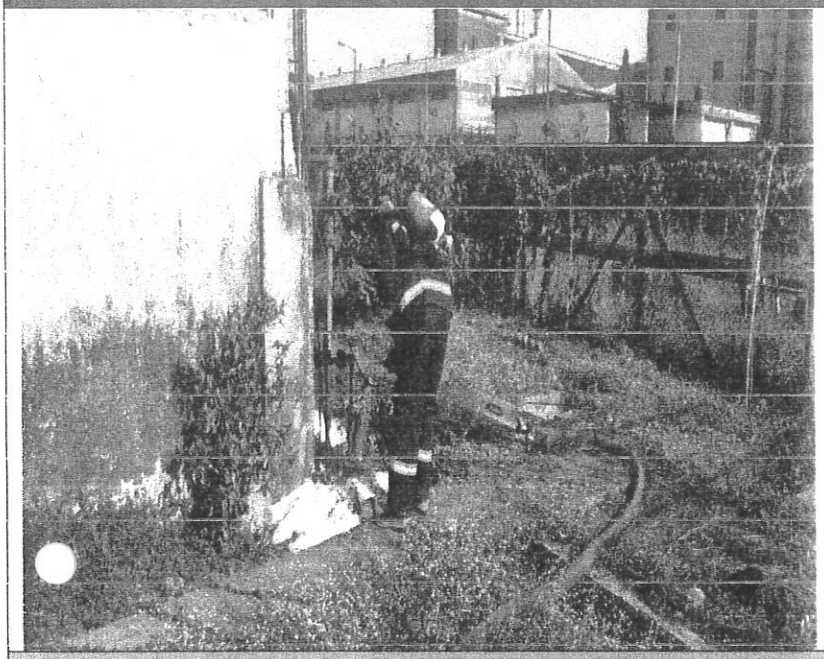
Incident controller guided crew members for casualty shifting



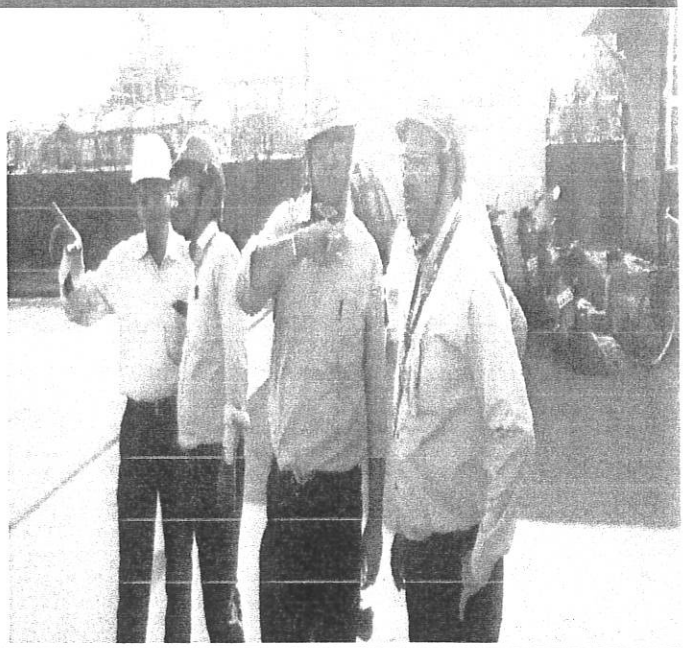
Security guard blowing Emergency Siren

Electrical & Mechanical section head arrived at site

MOCK DRILL AT DRUMMING PLANT DT. 31.01.2020

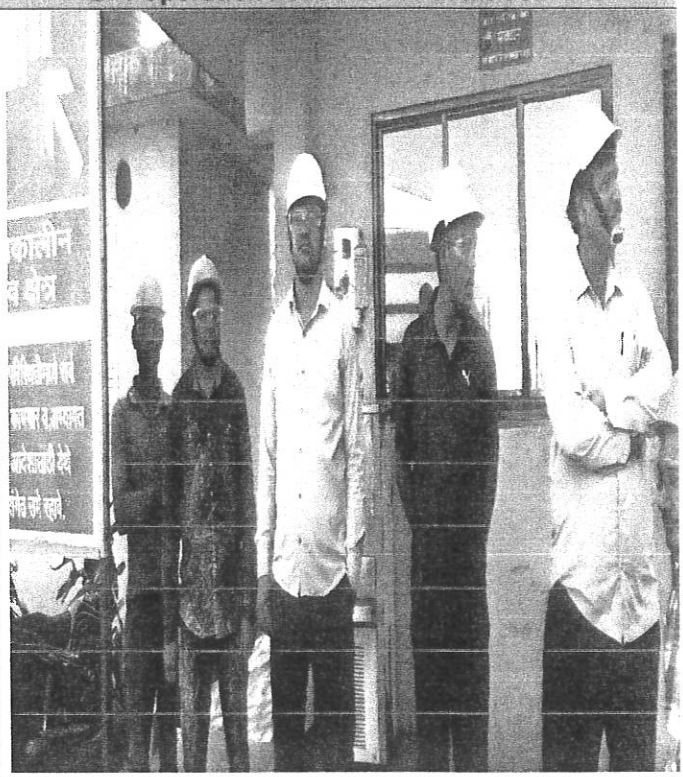


LEL checked after controlling the emergency



Gr-I Operation Head Arrived at Incident site

EHS Head, Engineering Head arrived at site



Employee/Contract workers at assembly point