



DFPCL-K1/EHS/Env/2019-20/20

Date: 28-Nov-19

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

Reference:

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

Sub: Half yearly Environmental Clearance Compliance report.

Dear Sir,

Please find enclosed the half yearly EC compliance report of **Gas Based Power plant** for the period of **April-2019 to September -2019**.

This is for your information and records please.

Thanking you,

Yours faithfully,

For, DEEPAK FERTILIZERS 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.

DATA SHEET

1	Project type: River - valley/ Mining / Thermal/ Industry / Nuclear/ Other (specify)	Gas Based Power Project
2	Name of the project	Gas based power project (2 X 5.2 MW and 1 X 7.5 MW) at their manufacturing facility at MIDC, Taloja, Maharashtra by Deepak Fertilisers & Petrochemicals Corporation Limited
3	Clearance letter (s) /OM No. and Date	EC granted for Gas Based Power Project vide file no. (SEAC-2010/CR.656/TC.2 dt 11.05.2011).
4	Location	
	a. District (S)	Raigad
	b. State (S)	Maharashtra
	c. Latitude/longitude	19°04'11.3"N/73°08'04.1"E
5	Address for correspondence	
	a. Address of Concerned Project Chief Engineer (with pin code & Telephone/ telex/ fax numbers	Mr. 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 30/09/19
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 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.	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 30/09/19
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, SO ₂ , NO _x & NH ₃ 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 conform 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. 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.

SN	Specific Conditions	Status of compliance as on 30/09/19
xxiv)	Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item wise break up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes & year-wise expenditure should be reported to the MPCB & this department.	Fund is utilized for implementation of environmental safeguard and details are reported to MPCB as part of Form V.
xxv)	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the MPCB and may also be seen at Website at http://envis.maharashtra.gov.in	Complied with.
xxvi)	Project management should submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms & conditions in hard & soft copies to the MPCB & this department on 1 st June & 1 st December of each calendar year.	Six monthly compliance reports are being sent to MPCB and regional office of MOEF. Last report was sent on 30th May 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 May 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, SO ₂ , NO _x , NH ₃ & 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 May 2019.

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



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) 25777069 / 70

TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/04/75	T. C. Date	11/04/2019
Customer Name and Address	M/s. DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD. PLOT K-1, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. - RAIGAD.		
Letter Ref / Date .	---		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	05/04/2019	Analysis Period	08/04/2019 To 11/04/2019

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Labour Gate		NPK Gate	
Date of Sampling	04/04/2019		04/04/2019	
Time of Sampling [Hrs]	10:45		11:15	
Duration of Sampling [Hrs]	24		24	
Ambient Temperature [°C]	Min.	30	Max.	39
Relative Humidity [%]	Min.	50	Max.	68

ANALYSIS REPORT :-

Parameters	Unit	Labour Gate	NPK Gate	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	63.4	64.6	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	33.7	31.9	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	34.7	37.2	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	37.1	39.5	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	1.27	1.19	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	< 0.01	< 0.01	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	< 20.0	< 20.0	100.0 for 8 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	31.2	30.4	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 1.0	< 1.0	5.0	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m ³	< 0.1	< 0.1	1.0	IS 5182 (Part 12):2004
Arsenic	ng/m ³	< 0.7	< 0.7	6.0	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	< 6.0	< 6.0	20.0	NAAQMS/36/2012-2013 Volume 1
Hydrocarbon	ppm	0.34	0.32	Not Specified	IS 5182 (Part XVII) 1975

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/04/76	T. C. Date	11/04/2019
Customer Name and Address	M/s. DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD. PLOT K-1, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. - RAIGAD.		
Letter Ref / Date .	---		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	05/04/2019	Analysis Period	08/04/2019 To 11/04/2019

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	ANP Gate		
Date of Sampling	04/04/2019		
Time of Sampling [Hrs]	10:30		
Duration of Sampling [Hrs]	24		
Ambient Temperature [°C]	Min.	33	Max. 38
Relative Humidity [%]	Min.	55	Max. 68

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	68.4	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	34.6	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	35.9	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	33.2	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	1.33	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	< 0.01	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	< 20.0	100.0 for 8 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	26.7	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part 12):2004
Arsenic	ng/m ³	< 0.7	6.0	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	< 6.0	20.0	NAAQMS/36/2012-2013 Volume 1
Hydrocarbon	ppm	0.24	Not Specified	IS 5182 (Part XVII) 1975

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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Tel. : (022) 25777069 / 70

TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/05/35	T. C. Date	10/05/2019
Customer Name and Address	M/s. DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD. PLOT K-1, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. – RAIGAD.		
Letter Ref / Date .	---		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	06/05/2019	Analysis Period	07/05/2019 To 10/05/2019

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Labour Gate		NPK Gate	
Date of Sampling	04/05/2019		04/05/2019	
Time of Sampling [Hrs]	11:20		11:30	
Duration of Sampling [Hrs]	24		24	
Ambient Temperature [°C]	Min.	28	Max.	40
Relative Humidity [%]	Min.	42	Max.	72

ANALYSIS REPORT :-

Parameters	Unit	Labour Gate	NPK Gate	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	64.9	60.8	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	32.6	34.2	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	36.3	34.6	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	39.5	36.4	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	1.29	1.31	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.5	0.06	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	11.87	7.91	100.0 for 8 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	25.3	22.6	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 1.0	< 1.0	5.0	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m ³	< 0.1	< 0.1	1.0	IS 5182 (Part 12) :2004
Arsenic	ng/m ³	< 0.7	< 0.7	6.0	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	5.18	7.76	20.0	NAAQMS/36/2012-2013 Volume 1
Hydrocarbon	ppm	0.21	0.24	Not Specified	IS 5182 (Part XVII) 1975

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

End

For GADARK LAB PVT. LTD.

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Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/05/36	T. C. Date	10/05/2019
Customer Name and Address	M/s. DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD. PLOT K-1, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. - RAIGAD.		
Letter Ref / Date .	---		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	06/05/2019	Analysis Period	07/05/2019 To 10/05/2019

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	ANP Gate			
Date of Sampling	04/05/2019			
Time of Sampling [Hrs]	11:10			
Duration of Sampling [Hrs]	24			
Ambient Temperature [°C]	Min.	28	Max.	41
Relative Humidity [%]	Min.	44	Max.	69

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	66.6	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	36.1	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	34.1	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	37.0	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	1.25	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.04	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	9.89	100.0 for 8 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	23.3	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part 12):2004
Arsenic	ng/m ³	< 0.7	6.0	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	9.05	20.0	NAAQMS/36/2012-2013 Volume 1
Hydrocarbon	ppm	0.27	Not Specified	IS 5182 (Part XVII) 1975

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

End

For GADARK LAB PVT. LTD.

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Tel. : (022) 25777069 / 70

TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/06/164	T. C. Date	15/06/2019
Customer Name and Address	M/s. DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD. PLOT K-1, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. - RAIGAD.		
Letter Ref / Date .	---		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	11/06/2019	Analysis Period	12/06/2019 To 15/06/2019

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Labour Gate		NPK Gate	
Date of Sampling	10/06/2019		10/06/2019	
Time of Sampling [Hrs]	11:20		10:40	
Duration of Sampling [Hrs]	24		24	
Ambient Temperature [°C]	Min.	22	Max.	35
Relative Humidity [%]	Min.	24	Max.	62

ANALYSIS REPORT :-

Parameters	Unit	Labour Gate	NPK Gate	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	62.5	62.8	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	30.9	36.1	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	34.9	30.6	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	36.4	34.1	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	1.27	1.25	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.14	0.09	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	8.6	6.6	100.0 for 8 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	16.7	18.1	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 1.0	< 1.0	5.0	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m ³	< 0.1	< 0.1	1.0	IS 5182 (Part 12):2004
Arsenic	ng/m ³	< 0.7	< 0.7	6.0	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	5.4	8.4	20.0	NAAQMS/36/2012-2013 Volume 1
Hydrocarbon	ppm	0.26	0.18	Not Specified	IS 5182 (Part XVII) 1975
HCL	mg/m ³	< 0.035	< 0.035	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]

CHECKED BY

Note :

1. The results relate only to the samples tested
2. Test certificate 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 Certificate.
4. Test Results relate only to the conditions prevailing at the time of sampling
5. Customer complaint register is available at laboratory.



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

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

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

Tel. : (022) 25777069 / 70

TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/06/165	T. C. Date	15/06/2019
Customer Name and Address	M/s. DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD. PLOT K-1, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. - RAIGAD.		
Letter Ref / Date .	---		
Sampling Done By	GLPL	Page No.	1 of 1
Sample Received on	11/06/2019	Analysis Period	12/06/2019 To 15/06/2019

SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	ANP Gate		
Date of Sampling	10/06/2019		
Time of Sampling [Hrs]	10:55		
Duration of Sampling [Hrs]	24		
Ambient Temperature [°C]	Min.	23	Max. 35
Relative Humidity [%]	Min.	24	Max. 62

ANALYSIS REPORT :-

Parameters	Unit	Results	*N.A.A.Q.S.	Methods
PM ₁₀	µg/m ³	63.7	100.0	NAAQMS/36/2012-2013 Volume 1
PM _{2.5}	µg/m ³	34.0	60.0	NAAQMS/36/2012-2013 Volume 1
SO ₂	µg/m ³	36.6	80.0	IS 5182 (Part II) 2012
NO ₂	µg/m ³	33.9	80.0	IS 5182 (Part VI) 2012
CO	mg/m ³	1.29	2.0 for 8 Hrs.	IS 5182 (Part X) 1999
Lead	µg/m ³	0.05	1.0	NAAQMS/36/2012-2013 Volume 1
Ozone	µg/m ³	9.9	100.0 for 8 Hrs.	APHA Method 411 3 rd Edition
Ammonia	µg/m ³	19.4	400.0	APHA Method 401 3 rd Edition
Benzene	µg/m ³	< 1.0	5.0	IS 5182 (Part 11) 2006
Benzo Pyrene	ng/m ³	< 0.1	1.0	IS 5182 (Part 12):2004
Arsenic	ng/m ³	< 0.7	6.0	NAAQMS/36/2012-2013 Volume 1
Nickel	ng/m ³	6.6	20.0	NAAQMS/36/2012-2013 Volume 1
Hydrocarbon	ppm	0.26	Not Specified	IS 5182 (Part XVII) 1975
HCL	mg/m ³	< 0.035	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]

CHECKED BY

Note :

1. The results relate only to the samples tested
2. Test certificate 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 Certificate.
4. Test Results relate only to the conditions prevailing at the time of sampling
5. Customer complaint register is available at laboratory.



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
14.08.2019	16.08.2019	16.08.2019	19.08.2019	20.08.2019

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000004739P	Sample Code	: NIL/AA/08/19/102
Location	: Main Gate		

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS 5182 (Part-23)	µg/m ³	10	41.8	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	23.0	60
3	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02)	µg/m ³	6.6	12.3	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	20.3	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	1.09	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	1.7	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	27.5	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	8.9	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS 5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.12	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	0.2	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	15.4	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	0.3	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.29	---

Note :

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

Verified by:

Surekha Jamdar
Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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CIN : U74999MH2003PLC142228



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





Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

Name of Organization : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.						
Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja 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		
14.08.2019	16.08.2019	16.08.2019	19.08.2019	20.08.2019		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)			
ULR Number : TC670919000004740P			Sample Code : NIL/AA/08/19/103			
Location : NPK Gate No. 4						
Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	µg/m ³	10	46.3	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	25.6	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	10.1	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	15.0	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	1.20	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	1.8	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	33.8	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	12.6	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.25	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	1.5	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	12.6	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	0.7	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.36	---

Note :

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

Surekha Jamdar
Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
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 : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja 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		
16.08.2019	19.08.2019	19.08.2019	22.08.2019	23.08.2019		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)			
ULR Number : TC670919000004753P			Sample Code : NIL/AA/08/19/116			
Location : Near CFB Cooling Tower						
Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	µg/m ³	10	41.4	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	15.2	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	12.1	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	20.2	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	1.16	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	4.9	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	33.6	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	10.4	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.26	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	0.6	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	15.1	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	1.2	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.37	---

Note :

- * MDL – Method Detectible Limit.
- ** BDL – Below Detectible Limit.
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- Sampling done by Netel (India) Limited.
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Verified by:

Surekha Jamdar
Surekha Jamdar
Dy. Technical Manager

Issued by:

S.Kere
Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

Name of Organization : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.						
Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja 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		
16.08.2019	19.08.2019	19.08.2019	22.08.2019	23.08.2019		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)			
ULR Number : TC670919000004754P			Location : Near IPA Gate			
Sample Code : NIL/AA/08/19/117						
Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS 5182 (Part-23)	µg/m ³	10	48.7	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	19.5	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	9.1	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	13.9	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	1.00	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	2.3	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	22.3	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	13.6	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.29	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	16.2	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	11.4	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	1.4	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.19	---

Note :

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- Sampling done by Netel (India) Limited.
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Verified by:

Surekha Jamdar
Surekha Jamdar
 Dy. Technical Manager

Issued by:

Shraddha Kere
Shraddha Kere
 Technical Manager

End of Report

A Neterwala Group Company

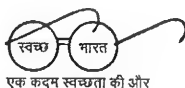
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Regd. office : Liberty Building, 3rd Floor, Sir Vithaldas Thackersey Marg, (New Marine Lines), Mumbai - 400 020. Tel. : 22066231 / 61





Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

Name of Organization : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.						
Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja 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		
29.08.2019	31.08.2019	31.08.2019	03.09.2019	04.09.2019		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)			
ULR Number : TC670919000004960P			Sample Code : NIL/AA/08/19/229			
Location : NPK Raw Material Storage Area						
Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	µg/m ³	10	44.0	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	22.6	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	14.0	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-05)	µg/m ³	1	20.0	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	0.96	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	3.0	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	23.8	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	12.5	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.17	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	4.0	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	17.5	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	1.1	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.26	---

Note :

- * MDL – Method Detectible Limit.
- ** BDL – Below Detectible Limit.
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- Sampling done by Netel (India) Limited.
- This Test Report shall not be reproduced except in full, without written approval of the Laboratory.
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Verified by:

Surekha Jamdar
Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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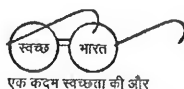
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Website : www.netel-india.com

CIN : U74999MH2003PLC142228



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Netel (India) Limited

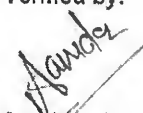
AMBIENT AIR QUALITY MONITORING REPORT

Name of Organization : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.						
Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja 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		
29.08.2019	31.08.2019	31.08.2019	03.09.2019	04.09.2019		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)			
ULR Number : TC670919000004961P			Location : NPK Production Unit			
Location : NPK Production Unit			Sample Code : NIL/AA/08/19/230			
Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	µg/m ³	10	54.1	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	24.7	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	11.8	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	17.8	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	1.18	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	1.7	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	26.8	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	13.8	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.21	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	5.6	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	14.8	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	3.1	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.18	---

Note :

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


Surekha Jamdar
Dy. Technical Manager

Issued by:


Shradha Kere
Technical Manager

End of Report

A Neterwala Group Company

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

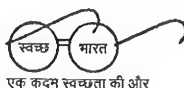
Tel. : + 91 022 2760 7102 / 2760 7103
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E-mail : sales@netel-india.com
Website : www.netel-india.com

CIN : U74999MH2003PLC142228



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





Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

Name of Organization : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.						
Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja 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		
25.09.2019	27.09.2019	27.09.2019	30.09.2019	01.10.2019		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)			
ULR Number : TC670919000005297P			Sample Code : Nil /AA/09/19/178			
Location : Main Gate						
Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	µg/m ³	10	43.8	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	21.3	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	13.0	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	18.5	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	0.95	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	2.7	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	40.6	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	10.9	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.15	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	22.0	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	16.3	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	3.4	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.35	---

Note :

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Verified by:

Surekha Jamdar
Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

Name of Organization	: M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.
Address	: Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja 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
25.09.2019	27.09.2019	27.09.2019	30.09.2019	01.10.2019

Sample Type	: Ambient Air	Sample Qty. & Packing	: Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)
ULR Number	: TC670919000005298P	Sample Code	: NIL/AA/09/19/179
Location	: Near IPA Gate		

Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	µg/m ³	10	43.2	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	17.8	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	10.7	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	16.5	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	1.15	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	3.8	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	24.3	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	7.6	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.22	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	23.0	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	13.4	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	3.5	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.22	---

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Verified by:

Surekha Jamdar
Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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CIN : U74999MH2003PLC142228



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Netel (India) Limited

AMBIENT AIR QUALITY MONITORING REPORT

Name of Organization : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.						
Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja 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		
26.09.2019	28.09.2019	28.09.2019	01.10.2019	02.10.2019		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)			
ULR Number : TC670919000005299P						
Location : NPK Gate NO-4			Sample Code : NIL/AA/09/19/180			
Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	µg/m ³	10	49.0	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	19.1	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	10.6	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	16.3	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	1.09	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	4.2	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	50.1	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	9.5	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.27	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	21.3	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	13.3	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	2.2	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.16	---

Note :

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Verified by:

Surekha Jamdar
Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

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

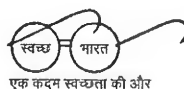
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E-mail : sales@netel-india.com
Website : www.netel-india.com

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Netel (India) Limited

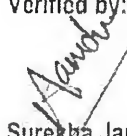
AMBIENT AIR QUALITY MONITORING REPORT

Name of Organization : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.						
Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja 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		
26.09.2019	28.09.2019	28.09.2019	01.10.2019	02.10.2019		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)			
ULR Number : TC670919000005300P			Location : Near CFB Cooling Tower			
Location : Near CFB Cooling Tower			Sample Code : NIL/AA/09/19/181			
Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	µg/m ³	10	44.8	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	16.1	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	10.1	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	16.8	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	0.89	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	4.0	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	28.8	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	12.6	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.30	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	29.7	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	12.6	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	1.9	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.16	---

Note :

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- ** BDL – Below Detectible Limit.
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- Sampling done by Netel (India) Limited.
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Verified by:


Surekha Jamdar
Dy. Technical Manager

Issued by:


Shradha Kere
Technical Manager

End of Report

A Neterwala Group Company

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TTC Industrial Area, Fax : + 91 022 2760 7100
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Regd. office : Liberty Building, 3rd Floor, Sir Vithaldas Thackersey Marg, (New Marine Lines), Mumbai - 400 020. Tel. : 22066231 / 61





Netel (India) Limited

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		
27.09.2019	30.09.2019	30.09.2019	03.10.2019	04.10.2019		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)			
ULR Number : TC670919000005301P			Location : NPK Raw Material Storage Area			
Sample Code : NIL/AA/09/19/182						
Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	µg/m ³	10	42.1	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	22.1	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	9.7	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	14.9	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	1.13	2 for 8 hrs.
6	Benzene (C ₆ H ₆)	IS-5182 (Part-11)	µg/m ³	1	2.0	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	35.2	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	13.8	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.29	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	36.2	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	12.1	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	3.3	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.28	---

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
Shraddha Kere
Technical Manager

End of Report

A Neterwala Group Company

W-108, Rabale MIDC,
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NAVI MUMBAI - 400 701.
INDIA.

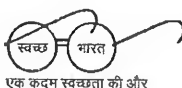
Tel : + 91 022 2760 7102 / 2760 7103
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E-mail : sales@netelindia.com
Website : www.netelindia.com

CIN : U74999MH2003PLC142228



एम्बे. एम्बे. लि. बिल्डिंग, 310 एम्बे, 411 008 मुंबई महाराष्ट्र, भारत. (फोन: 2760 7102), मुंबई 400 701. ईमेल: 22000201 / 01



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 : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja 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		
27.09.2019	30.09.2019	30.09.2019	03.10.2019	04.10.2019		
Sample Type : Ambient Air			Sample Qty. & Packing : Filter Paper (2 nos), Charcoal Tube, Bladder & 50ml Plastic Bottle (4 nos)			
ULR Number : TC670919000005302P			Sample Code : NIL/VV00/10/183			
Location : NPK Production Unit						
Sr. No.	Test Parameter	Method	Unit	MDL*	Results	NAAQS Limit
1	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	µg/m ³	10	51.3	100
2	Particulate Matter (PM _{2.5})	NIL/AIR/SOP/03 [†]	µg/m ³	5	22.1	60
3	Sulphur Dioxide (SO ₂)	IS-5182 (Part-02)	µg/m ³	6.5	11.3	80
4	Oxides of Nitrogen (NO _x)	IS-5182 (Part-06)	µg/m ³	4	18.9	80
5	Carbon Monoxide (CO)	IS-5182 (Part-10)	µg/m ³	10	1.08	2 for 8 hrs.
6	Deletoic (C ₆ H ₆)	IS-5102 (Part-11)	µg/m ³	1	1.2	5
7	Ammonia (NH ₃)	ISC Part-II (Method-401)	µg/m ³	6	50.1	400
8	Ozone (O ₃)	IS-5182 (Part-09)	µg/m ³	1	9.7	100 for 8 hrs.
9	Benzo - a - Pyrene (BaP)	IS-5182 (Part-12)	ng/m ³	0.5	BDL	1
10	Lead (Pb)	APHA - Air 3 rd Edition (Method 822)	µg/m ³	0.1	0.32	1
11	Arsenic (As)		ng/m ³	1	BDL	6
12	Nickel (Ni)		ng/m ³	1	BDL	20
13	Hydrocarbon (HC)	IS-5182 (Part-11)	µg/m ³	1	35.6	---
14	Sulfur Trioxide (SO ₃)	By Calculation	µg/m ³	8	14.1	---
15	Acid Mist	ICMA Manual (Part 2)	µg/m ³	1	2.2	---
16	Fluoride	IS-5182 (Part-13)	µg/m ³	0.1	0.35	---

Note :

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Surekha Jamdar
Dy. Technical Manager

Issued by:

Shraddha Kere
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
Fax : + 91 022 2760 7100

E mail : caloe@netelindia.com
Website : www.netel-india.com

CIN : U74999MH2003PLC142228



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





Netel (India) Limited

GROUND WATER MONITORING REPORT

Name of Organization : M/s. Deepak Fertilisers And Petrochemicals Corporation Limited.						
Customer Address : Talaja Plant Plot K-1, MIDC Industrial Area, P.O. Talaja Dist. Raigad 410208 Maharashtra						
Customer Reference : Work Order no. 4800055893, Dated 24.07.2019						
Date of Sampling	Sample Received Date	Analysis Start Date	Analysis Complete Date	Report on Date		
29.00.2019	30.00.2019	30.00.2019	02.09.2019	03.09.2019		
Sample Type : Water			Sampling done by : Netel (India) Limited			
ULR Number : TC670919000004931P			Container / Qtn. : Plastic can (2 lit)			
Sampling Location : Near ETP Ground Water - B.W			Sample Code : NIL/W/08/19/147			
Sr. No.	Test Parameter	Method	Unit	MDL*	Result	Specification as per IS 10500:2012
1	Temperature	APHA 2550-B	°C	0.1	24.2	---
2	Colour	IS 3025 (Part 4)	Hazen	5	5.5	15
3	Odour	APHA 2150-A	-	---	Agreeable	Agreeable
4	pH	IS 3025 (Part 11)	-	0.5 - 13.5	6.92	6.0 - 8.5
5	Electrical Conductivity	IS 3025 (Part 14)	mS/cm	0.05	9.242	---
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/lit	5	842	2000
7	COD	IS 3025 (Part 58)	mg/lit	10	27	250
8	Chloride	APHA 4500-Cl	mg/lit	2.5	51	250
9	Sulphate	APHA 4500-SO4-E	mg/lit	5	45.1	200
10	Fluoride	APHA 4500-F-D	mg/lit	0.2	0.8	1
11	Nitrate	IS 3025 (Part 34)	mg/lit	0.05	5.8	45
12	Nitrite	IS 3025 (Part 34)	mg/lit	0.01	3.5	---
13	Phosphate (Phosphorus)	APHA 4500-P-C	mg/lit	1	BDL	---
14	Sodium	IS 3025 (Part 45)	mg/lit	0.05	15.8	---
15	Potassium	IS 3025 (Part 45)	mg/lit	0.05	2.1	---
16	Iron	APHA 3111-B	mg/lit	0.03	BDL	0.3
17	Magnesium	IS 3025 (Part 21 & 40)	mg/lit	5	15.8	30
18	Manganese	APHA 3111-B	mg/lit	0.01	BDL	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

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एक कदम स्वच्छता की ओर




Netel (India) Limited

Sampling Location : Near ETP Ground Water - B.W		Sample Code : NIL/W/08/19/147				
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	40	75
35	Carbonate	IS 3025 (Part 23)	mg/lit	5	0.0	---
36	Bicarbonate	IS 3025 (Part 23)	mg/lit	5	69	---
37	Total Coliform	IS 1622 : 1981	MPN/100ml	0	BDL	Absent
38	Faecal Coliform	IS 1622 : 1981	-	0	BDL	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:


Shradha Kere
Technical Manager

End of Report

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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) 25777069 / 70

TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/04/77	T.C. Date :	11/04/2019
Customer Name and Address.	M/s. DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD. PLOT K-1, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. – RAIGAD.		
Letter Ref / Date .	---		
Measurement Done By	GLPL	Page No.	1 of 1

AMBIENT NOISE LEVEL MEASUREMENT :-

Date of Measurement	04/04/2019
---------------------	------------

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 12:10 HRS.	NIGHT TIME 22:30 HRS.
01	Near Main Gate	62.3	57.4
02	Near Ammonia Unloading Gate	64.7	63.5
03	Near NPK Gate	66.2	60.7
04	IPA Gate	68.4	62.4
05	CFB Gate	63.4	58.9
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

CHECKED BY

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Tel. : (022) 25777069 / 70

TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/05/37	T.C. Date :	10/05/2019
Customer Name and Address.	M/s. DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD. PLOT K-1, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. – RAIGAD.		
Letter Ref / Date .	---		
Measurement Done By	GLPL	Page No.	1 of 1

AMBIENT NOISE LEVEL MEASUREMENT :-

Date of Measurement	04/05/2019
---------------------	------------

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 11:45 HRS.	NIGHT TIME 23:15 HRS.
01	Near Main Gate	64.4	58.9
02	Near Ammonia Unloading Gate	68.3	65.1
03	Near NPK Gate	61.7	55.0
04	IPA Gate	64.8	54.9
05	CFB Gate	62.2	58.4
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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Tel. : (022) 25777069 / 70

TEST CERTIFICATE

Doc.No : GLPL/QF/5.10/01

Test Certificate No.	GA/19/06/166	T.C. Date :	15/06/2019
Customer Name and Address.	M/s. DEEPAK FERTILISERS AND PETROCHEMICALS CORP. LTD. PLOT K-1, MIDC INDUSTRIAL AREA, TALOJA, A.V. 410 208, DIST. – RAIGAD.		
Letter Ref / Date .	---		
Measurement Done By	GLPL	Page No.	1 of 1

AMBIENT NOISE LEVEL MEASUREMENT :-

Date of Measurement	10/06/2019
---------------------	------------

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 11:30 HRS.	NIGHT TIME 22:40 HRS.
01	Near Main Gate	63.8	56.3
02	Near Ammonia Unloading Gate	70.1	63.1
03	Near NPK Gate	62.7	56.1
04	IPA Gate	63.9	57.7
05	CFB Gate	65.1	53.8
M.P.C.B. LIMITS		75.0	70.0

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[KAILAS V. CHITALKAR]

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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 1)	Instrument Serial No. : Q640792				
Date of Sampling : 14.08.2019	Date of Calibration : 24.09.2018				
Date of Reporting : 17.08.2019	Next Calibration Due : 23.09.2019				
Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	65.9	75	66.4	70
2	NPK Gate No. 4	55.3	75	55.3	70
3	NPK Raw Material Storage Area	68.5	75	67.0	70
4	NPK Production Unit	56.5	75	55.4	70
5	Near IPA Gate	66.2	75	65.8	70
6	Near CFB Cooling Tower	70.6	75	69.1	70
7	Ammonia Unloading	58.2	75	57.5	70
8	K-6 Plot (Near Main Gate)	69.8	75	68.1	70

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Verified by:


Surekha Jamdar
Dy. Technical Manager

Issued by:


Shradha Kere
Technical Manager

End of Report

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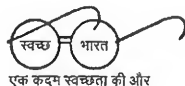
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Netel (India) Limited

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 : 25.09.2019			Date of Calibration : 17.09.2019		
Date of Reporting : 28.09.2019			Next Calibration Due : 16.09.2020		
Sr. No.	Location	Leq (dBA)			
		Day	MPCB Limit	Night	MPCB Limit
1	Main Gate	72.7	75	69.4	70
2	NPK Gate No. 4	57.9	75	56.5	70
3	NPK Raw Material Storage Area	68.6	75	68.0	70
4	NPK Production Unit	62.8	75	61.7	70
5	Near IPA Gate	67.2	75	66.7	70
6	Near CFB Cooling Tower	74.3	75	68.4	70
7	Ammonia Unloading	70.5	75	69.5	70
8	K-6 Plot (Near Main Gate)	67.9	75	68.4	70

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Issued by:


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Technical Manager

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DFPCL/K-1/EHS/DISH/2019/29

09-Sep-19

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

Subject: Submission of Mock drill Report at Boiler in Utility of K-1-K-5 DFPCL.

Respected Sir,

We are submitting herewith the report of mock drill, which was conducted on 29-Aug-19 at Boiler in Utility of K-1-K-5 DFPCL, at 12:36 hrs. for information and record. Scenario was chlorine leak from chlorine cylinder of chlorination unit.

Please acknowledge receipt of the same.


Thanking you,


Yours Truly,
For Deepak Fertilizers & Petrochemicals Corp. Ltd.,

D. S. Pande

Head EHS

Encl: Mock drill Report.

	Mock Drill Reporting Format		Prepared by:	Checked by:	Approved by:
	EHS/Safety/SOP-11/F-01		AGM EHS	GM - EHS	HOD-EHS
	DFPCL K1-K5		Version	2.0	Date:1-Jun-16
Report on On-site Emergency Mock drill (Level-I or Level-II)					
1.0	Date of Mock drill	29.08.2019			
2.0	Time of Mock Drill	12:36 Hrs.			
3.0	Location of Incident / Mock drill	Boiler / Level -2			
4.0	Type of emergency / Scenario	Leakage of Chlorine gas from the cylinder valve assembly			
5.0	Details of Members & Observer involved in Mock drill:	1. Mr. Vijay Joshi (Chief Emergency Controller) 2. Mr. Pralhad Yalmar (Incident controller) 3. Mr. Amit Thakur (Fire team leader) 4. Mr. Vinod (Primary Observer)			
6.0	Observer's Location	1. Emergency Control centre (Mr. Deepak Pande) 2. Incident Site (Mr. Vijay Khare) 3. Incident control room (Mr. Manish Pandit) 4. Adjacent control room (Mr. Shirish Deshmukh) 5. Occupational Health Centre (Mr. Pradip Tandel)			
Communication and Action					
Sr. No.	Time Hrs.	Actions taken		Observation / Comment	
I) Action by Primary observer:					
1	12:36 Hrs	Informed to Boiler control room about the leakage of chlorine gas from the cylinder near boiler cooling tower (verbal communication)			
2	12:36 Hrs	Informed about wind direction			
3	12:36 Hrs	Informed about casualty due to Chlorine gas exposure at incident site			
II) Action by control room:					
1	12:36 Hrs	Received Message from contract worker about leakage of Chlorine gas. Panel officer conveyed emergency message to fire department, Plant In-charge & adjacent control room			
2	12:39 Hrs	Received message of Alert siren and communicated to CEC			
3	12:41 Hrs	Received message of casualty shifting to OHC			
4	12:45 Hrs	Received message of stoppage of chlorine gas leak by applying chlorine kit assembly.			
5	12:46 Hrs	Received message of All clear siren			
III) Action at Field:					
1	12:37 Hrs	Shift In-charge arrived at site. .			
2	12:39 Hrs	Incident controller informed Security In-charge to blow the "Alert" siren.			
3	12:39 Hrs	Fire & OHC crew along with Fire tender, fire jeep and ambulance arrived at Incident site.			

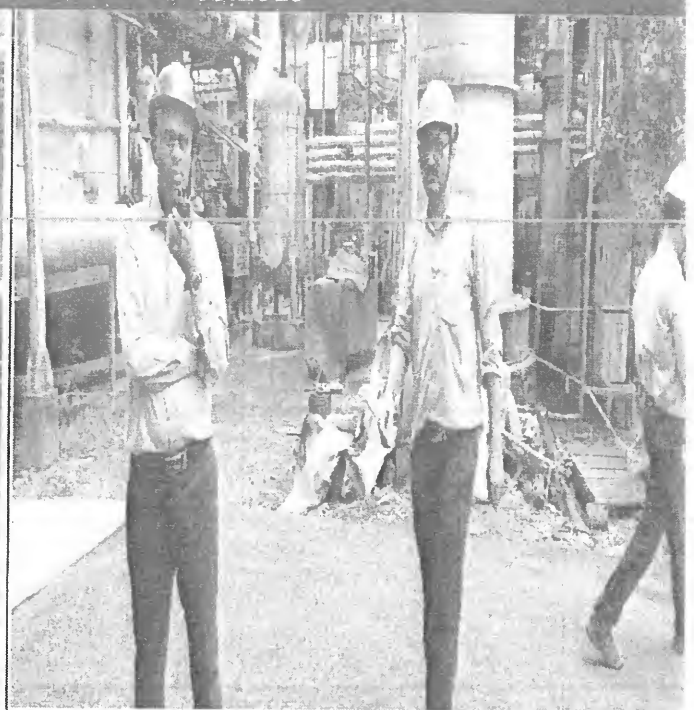
		Mock Drill Reporting Format	Prepared by:	Checked by:	Approved by:
		EHS/Safety/SOP-11/F-01	AGM EHS	GM - EHS	HOD-EHS
		DFPCL K1-K5	Version	2.0	Date:1-Jun-16
4	12:41 Hrs	Immediately one semi-unconscious casualty shifted to OHC by fire crew members. Surrounding area checked for toxic release and barricaded area up to 50-60 mtrs considering the wind direction			
5	12:43 Hrs	Mayura Water curtain started to contain the chlorine gas.			
6	12:45 Hrs	Chlorine gas leak attended by fire team using chlorine kit assembly. No any leak observed.			
7	12:46 Hrs	Incident controller informed Security In-charge to blow the "ALL CLEAR" siren.			
IV) Action by Site Incident Controller (SIC):					
1	12:37 Hrs to 12:46 Hrs	<ul style="list-style-type: none"> • Incident controller arrived at site. • Directed fire team to barricade the surrounding area and shifting of semi-unconscious casualty. • Mayura Water curtain started to contain the chlorin gas. • Continuous communication with CEC for updating situation at incident site. 			
2	12:39 Hrs	Incident controller informed Security In-charge to blow the "Alert" siren.			
3	12:46 Hrs	Incident controller informed Security In-charge to blow the "ALL CLEAR" siren.			
V) Action by Chief Emergency Controller (CEC):					
1	12:41 Hrs	Chief Emergency controller arrived at Emergency control centre			
2	12:42 Hrs	Received detailed information about Emergency from the incident controller			
3	12:44 Hrs	Continued follow up with incident controller for any help required to mitigate the emergency			
4	12:46 Hrs	All clear siren sounded as per the instruction of Incident controller			
VI) Action by Fire crew / Fire shift In Charge:-					
1	12:39 Hrs	Fire & OHC crew along with Fire tender, fire jeep and ambulance arrived at incident site.			
2	12:40 Hrs	Immediately one semi-unconscious casualty shifted to OHC by fire crew members by wearing SCBA & PVC suit. Surrounding area checked for toxic release and barricaded area up to 50-60 mtrs considering the wind directions			
3	12:43 Hrs	Mayura Water curtain started to contain the chlorin gas.			
4	12:45 Hrs	Chlorine gas leak attended by fire team using chlorine kit assembly. No any leak observed. information of the same given to incident controller			

	Mock Drill Reporting Format		Prepared by:	Checked by:	Approved by:
	EHS/Safety/SOP-11/F-01		AGM EHS	GM - EHS	HOD-EHS
	DFPCL K1-K5		Version	2.0	Date:1-Jun-16
VII) Action by Security shift In charge:-					
1	12:37 Hrs	Arrived at emergency control centre and took charge from fire shift in-charge.			
2	12:37 Hrs	Informed to CEC, Safety head and plant In charge about the incident.			
3	12:39 Hrs	"ALERT SIREN" initiated as per instruction of incident controller.			
4	12:46 Hrs	"ALL CLEAR" siren blown as per the instruction of incident controller.			
VIII) Action by Male Nurse / FMO (OHC Team):-					
1	12:43 Hrs	Casualty shifted to Ambulance with help of stretcher and shifted to OHC in ambulance			
2	12:43 Hrs	Pulse & BP checked by FMO , Casualty checked for unconsciousness.			
3	12:45 Hrs	Casualty kept under observation no adverse symptom observed.			
4	12:47 Hrs	Then casualty released from OHC to his normal duty.			
IX) Action to reduce the Environmental Impact:-					
1	Contaminated water was pumped and transfer to ETP for further treatment				
7.0 COMMENT ON RESOURCES:-					
1	Resources found adequate.				
8.0 POSITIVE POINTS / SHORT COMING OF THE DRILL:-					
Short coming					
1	Head count not done at plant level				
Positive Points					
1	Primary observer pass correct information to Plant control room				
2	Communication at incident control room & at field was good.				
3	Incident controller briefed the incident to emergency control centre correctly & informed about the actions they are taking to control the incident.				
4	All actions by Primary observer ,Incident control room, Site incident controller, FMO and security were prompt				
9.0 RECOMMENDATIONS:					
S.N.	Recommendations:		Responsibility	Target Date	
1	Head count to be done at plant level to confirm the all workers safely evacuated from the incident site		All Group Heads/ Section Heads	Ongoing	
2	Briefing to be done for the plant employee about the type of emergency, Role and responsibility of the individuals etc.. After the normalisation of the emergency		Section Head & Safety Officer	Immediate/Ongoing from the next Mock drill	
1	Name of the Site Incident controller		Mr. Pralhad Yalmar		
2	Signature of the Site Incident controller				
3	Name of the Chief Emergency Controller		Mr. Vijay Joshi		
4	Sign of the Chief Emergency controller				

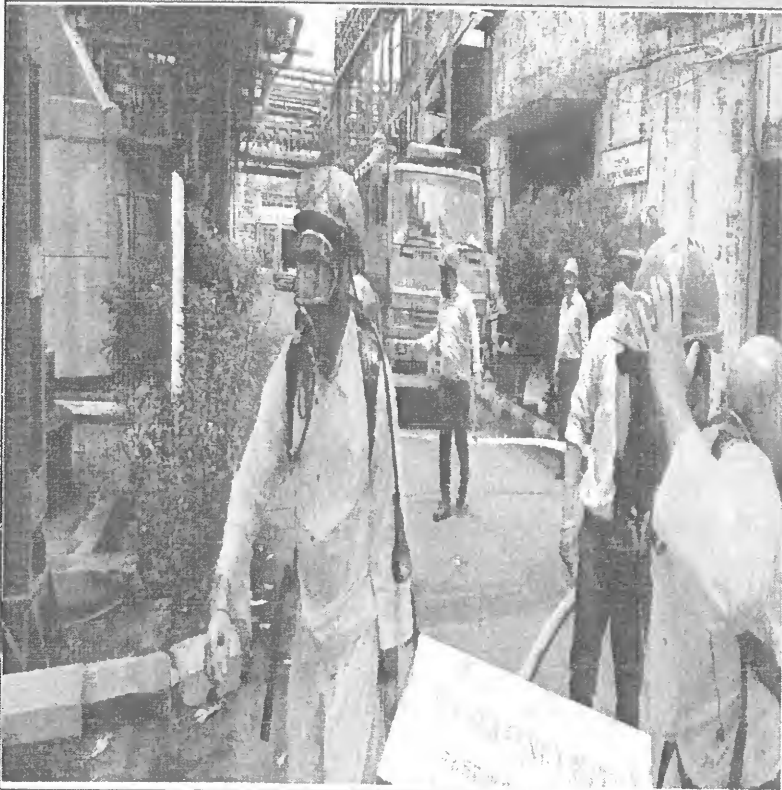
MOCK DRILL AT BOILER PLANT DT. 29.08.2019



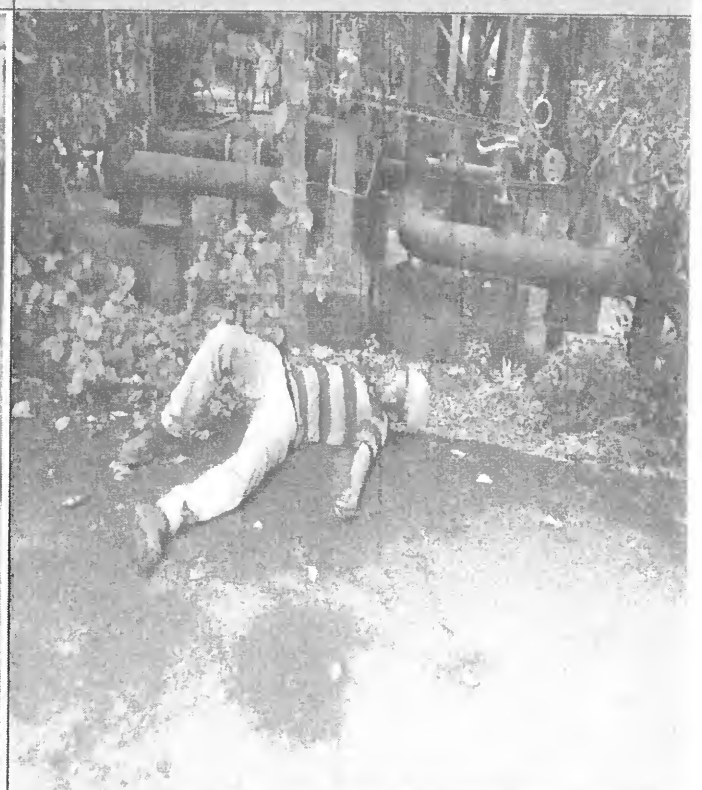
Plant Shift-In charge arrived at Site



Incident Controller arrival at Site

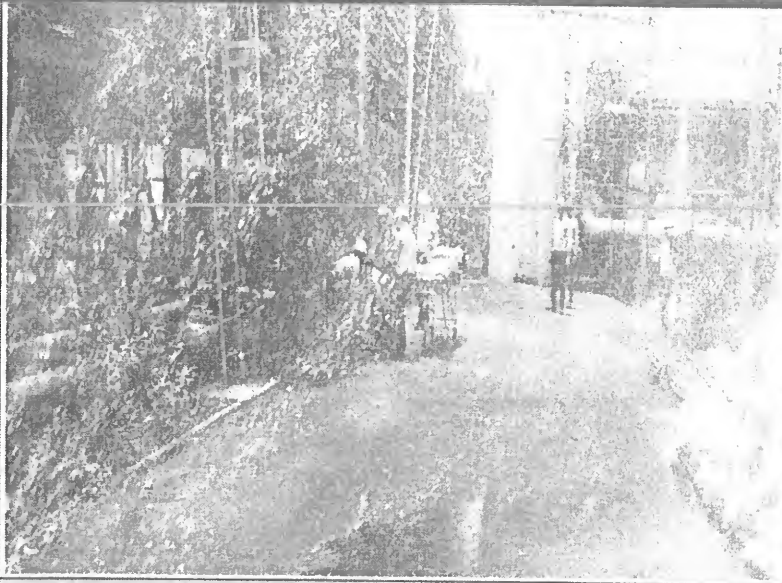


Fire Crew arrival at Site

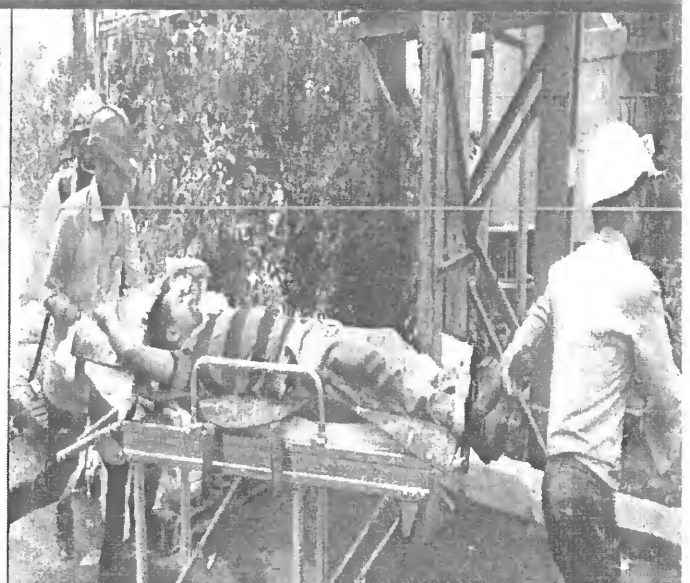


Casualty on the incident site

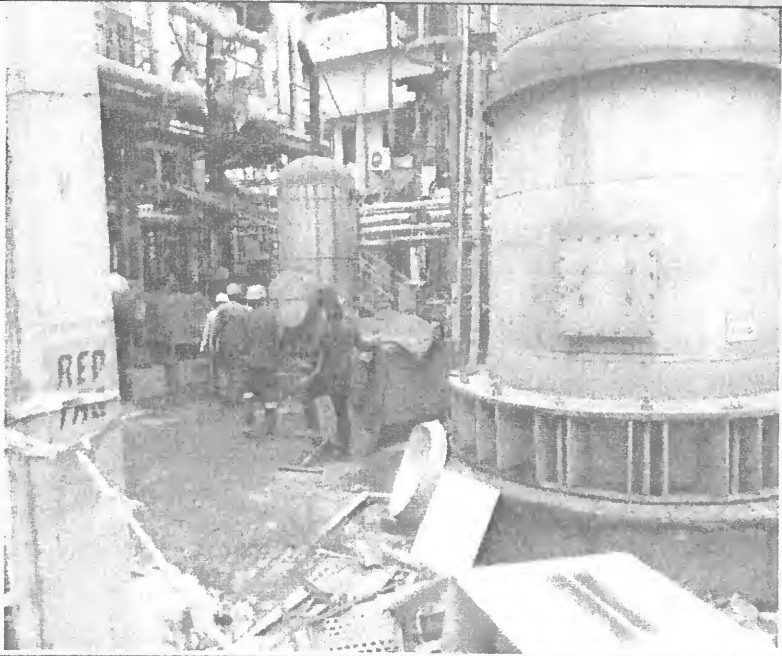
MOCK DRILL AT BOILER PLANT DT. 29.08.2019



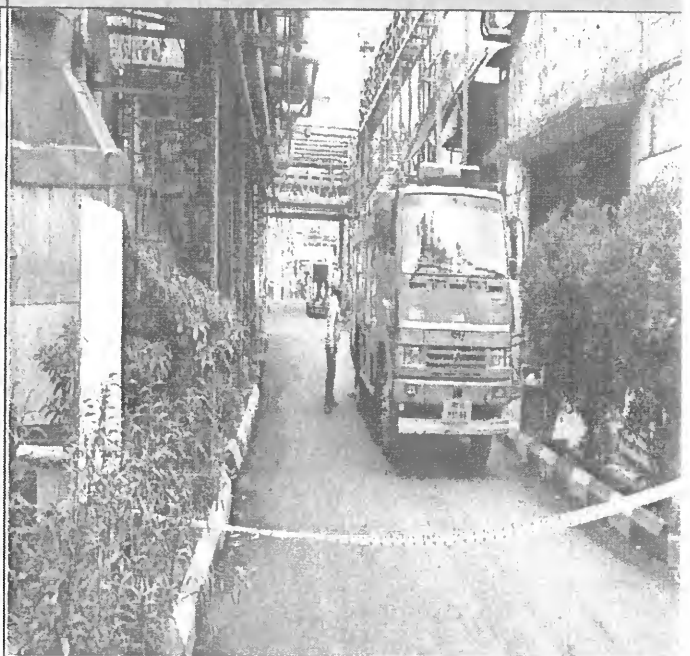
Fire Crew rush towards casualty



Casualty shifted to OHC



Workers in the surrounding area Safely Evacuated

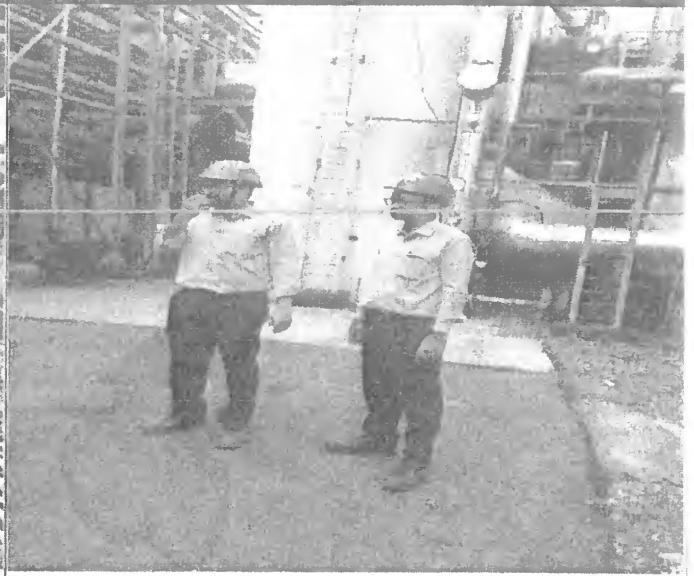


Surrounding area barricaded to avoid entry into the danger zone

MOCK DRILL AT BOILER PLANT DT. 29.08.2019



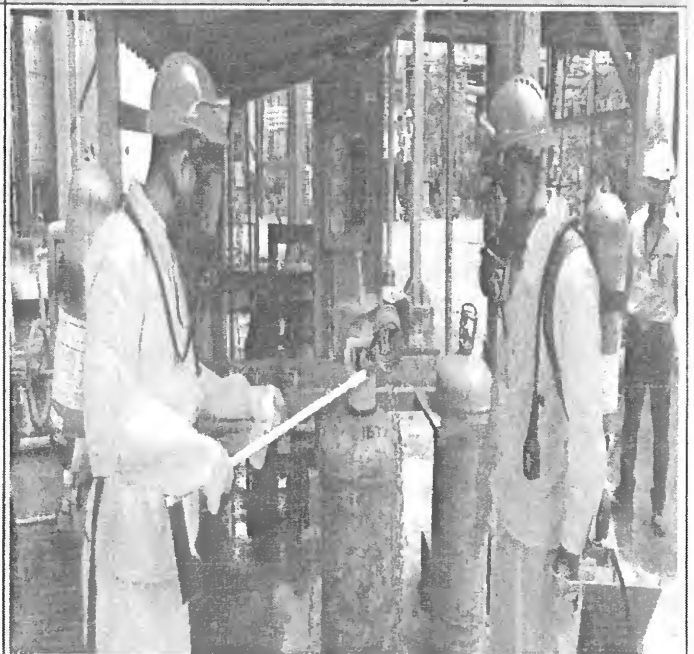
Mayura water curtain started to contain the chlorine gas



Incident controller updates Emergency situation to CEC



Emergency crew members applied kit on the leaky cylinder



Leak test done by the ECM after applying the kit