GNFC

Gujarat Narmada Valley
Fertilizers & Chemicals Limited
CIN : L24110GJ1976PLC002903

(An ISO 14001 & OHSAS 18001 Company)

P. O. Narmadanagar - 392 015, Dist. Bharuch, Gujarat. India
Ph (02642) 247001, 247002
Website www.gnfc.in

GNFC/MoFF/EC Compliance/2017-18
Date:- 23/04/2018

To,
Ministry of Environment, Forest and Climate Change
Regional Office (WZ),
E-5, Kendriya Paryavaran Bhawan,
E-5, Arera Colony, Link road-3,
Ravisankar Nagar,
Bhopal -462016
Madhya Pradesh

Kind Attn: Dr. TEJINDER SINGH, IFS
Additional Principal Chief Conservator of Forest(C)

Sub:- Submission of compliance report of Environmental Clearance grant to Gujarat Narmada Valley Fertilizers & Chemicals Limited (GNFC)

Dear Sir,

Please find enclosed herewith the compliance report of Environmental Clearance issued vide letter no. J-11011/310/2012-IA II (I) dated 23rd March-2015 granted by Ministry of Environment, Forest and Climate Change, New Delhi to Gujarat Narmada Valley Fertilizers & Chemicals Limited for the expansion of Brownfield Ammonia Urea plant, New Aniline, TDI:MDI blend, Water Soluble fertilizer (NPK), Acetic acid and CPSU plant.

Please note that condition of Environmental clearance granted by letter no J-11011/1218/2007-IA II (I) dated 28.04.2008 and J-11011/731/2007-IA (II) dated 19.03.2008 issued by the Ministry of Environment, Forest and Climate Change Are complied by Gujarat Narmada Valley Fertilizers & Chemicals Limited, Bharuch . Also conditions of Environmental Clearance No. SEIAA/GUJ/EC/5(f)/107/2011 dated 09.06.2011 granted by state Level Environment Impact Assessment Authority, Gujarat is complied by Gujarat Narmada Valley Fertilizers & Chemicals Limited, Bharuch.

10-7-2018
Post Received
Gujarat Pollution Control Board
BHARUCH.

O/C

GNFC

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Compliance report of Environmental clearance is submitted as a part of compliance to condition of Environment Impact Assessment Notification -2006.

Thanking You,

Yours Faithfully,
For **Gujarat Narmada Valley Fertilizers & Chemicals Limited**

B M Tailor
General Manager

Encl. as above

CC TO: 1. Shri B R Naidu, Hon. Zonal Officer
Central Pollution Control Board
Parivesh Bhavan,
Opp. VMC ward office No. 10
Subhanpura, Vadodara-390023

2. Shri K C Mistry, Hon, Member Secretary,
Gujarat Pollution Control Board
Paryavaran Bhavan, Sectore-10 A
Gandhinagar-382010

3. **Shri R R Vyas, Regional Officer**
Gujarat Pollution Control Board
C/1/119/3, GIDC, Phase-II
Narmadanagr-392015
Bharuch

STATUS OF COMPLIANCE OF THE ENVIRONMENTAL CLEARANCE CONDITIONS FOR BROWN FIELD AMMONIA-UREA PLANT, NEW ANILINE, TDI-MDI BLENDS, WATER SOLUBLE FERTILIZERS (NPK), ACETIC ACID AND CPSU PLANTS AT NARMADANAGAR, BHARUCH, GUJARAT BY GUJARAT NARMADA VALLEY FERTILIZERS AND CHEMICALS LIMITED (GNFC)

Sr No.	Specific Conditions	Complience Status / Action Taken as on Dec-17
1	All the conditions stipulated in environmental clearance letter *J-11011/1218/2007-IA* (II) dated 28th April, 2008 and letter no. J-110111731/2007 IA (II) dated 19th March, 2008 accorded for the existing projects shall be implemented.	***Complied.*** All the conditions stipulated in environmental clearance letter J-11011/1218/2007-IA (II) dated 28th April, 2008 and letter no. J-110111731/2007 IA (II) dated 19th March, 2008 accorded for the existing projects are complied with.
2	The gaseous emissions (SO2, NOx, NH_3, HC and Urea dust) and particulate matter from various process units shall conform to the norms prescribed by the CPCB/SPCB from time to time. At no time, the emission levels shall go beyond the prescribed standards.	***Will be complied***. Adequate pollution control systems will be provided to meet norms of (SO2, NOx, NH3, HC and Urea dust) and particulate matter within the norms specified by CPCB/SPCB from time to time.
3	Adequate stack height shall be provided to Ammonia plant reformer, Heat recovery steam generator (HRSG), NGI RLNG fired gas turbine and Prilling Tower. Low NOx burners shall be provided to control NOx emissions.	***Will be complied.*** Adequate stack height as specified in EIA report will be provided to Ammonia plant reformer, Heat recovery steam generator (HRSG), NGI RLNG fired gas turbine and Prilling Tower.
4	In Urea Plant, particulate emissions shall not exceed 50mg/Nm^3 Monitoring of Prilling Tower shall be carried out as per CPCB guidelines.	***Will be complied***. Adequate system in Urea Plant will be provided to keep particulate emissions within 50mg/Nm3 and monitoring of Prilling Tower will be carried out as per CPCB guidelines.
5	Air pollution control devices as proposed in the environmental management plan shall be implemented in order to meet the prescribed standards.	***Will be complied.*** Air pollution control devices as proposed in the environmental management plan will be implemented in order to meet the prescribed standards.
6	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry.	***Complied***. GNFC is regularly carrying out ambient air monitoring as per the National Ambient Air Quality standards notified by the Ministry of Environment & Forest. A analysis report for the period **June-2017 to Dec-2017** is attached herewith as Annexure-I.
6.1	The levels of PM10 (Urea dust), SO2, NOx, Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places.	***Complied.*** GNFC has installed online ambient quality monitoring stations at 3 different locations. Monitored data is being displayed at main gate of the company.
6.2	The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the Gujarat Pollution Control Board (GPCB).	***Complied.*** GNFC has installed online ambient quality monitoring stations at 3 different locations. Monitored data is linked up with CPCB.
7	Fugitive emission control	
7.1	Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system.	***Will be complied***. Fugitive emissions will be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system.
7.2	Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions should conform to the limits stipulated by the GPCB.	***Will be complied***. Fugitive emissions in the work zone environment, product, raw materials storage area etc. will be monitored regularly and we will ensure that emissions shall conform to the limits stipulated by the GPCB.
8	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	***Will be complied.*** Adequate stack height will be provided to DG set stack as per CPCB standard and Acoustic enclosure will be provided to the DG sets to mitigate the noise pollution.

Narmada Valley Fertilizers & Chemicals Ltd. BHARUCH 392 015.

STATUS OF COMPLIANCE OF THE ENVIRONMENTAL CLEARANCE CONDITIONS FOR BROWN FIELD AMMONIA-UREA PLANT, NEW ANILINE, TDI-MDI BLENDS, WATER SOLUBLE FERTILIZERS (NPK), ACETIC ACID AND CPSU PLANTS AT NARMADANAGAR, BHARUCH, GUJARAT BY GUJARAT NARMADA VALLEY FERTILIZERS AND CHEMICALS LIMITED (GNFC)

Sr No.	Specific Conditions	Complience Status / Action Taken as on Dec-17
9	Fresh water requirement from Narmada River, Ukai Canal and Narmada Canal should not exceed 83654 m3/day after expansion and prior permission shall be obtained from concerned Authority and a copy submitted to the Ministry's Regional Office at Bhopal.	***Will be complied.*** Total water requirement after proposed expansion will not exceed 83654 m3/day. GNFC has already obtained inprinciple approval from concerned Authority. A copy of inprinciple approval was submitted in compliance report Sep-15.
10	Waste Water, Condensate Treatment in ETP.	
10.1	Urea plant process condensate shall be treated in a deep hydrolyser followed by stripping.	***Will be complied***. Urea plant process condensate will be treated in a deep hydrolyser followed by stripping.
10.2	Ammonia plant process condensate (APC) shall be stripped with steam followed by activated carbon and demineralization.	***Will be complied***. Ammonia plant process condensate (APC) will be stripped with steam followed by activated carbon and demineralization.
10.3	Wastewater shall be treated in the ETP	
10.4	Treated effluent shall be recycled/ reused and also be monitored for the parameters namely ammonical nitrogen, treated effluent shall be recycled/ reused.	***Will be complied***. Treated effluent shall be recycled/ reused as proposed in the EIA report and will be monitored for the parameters namely ammonical nitrogen.
11	All the effluents after treatment shall be routed through a properly lined guard pond/holding pond for equalization and final control. In the guard pond/holding pond, automatic monitoring system for flow, and relevant pollutants (i.e. pH, ammonical nitrogen, nitrate nitrogen etc) shall be provided with high level alarm system.	***Complied.*** GNFC is already have two nos of guard pond have adequate capacity. All the effluents after proposed treatment facility will be routed through a existing guard ponds. GNFC has already provided automatic monitoring system for flow, and relevant pollutants.
12	The treated effluent shall be discharged into the River Bhukhi after conforming to the standards prescribed for the effluent discharge and after obtaining permission from the GPCB. No process effluent shall be discharged in and around the project site. Sewage shall be treated in STP and treated water shall be recycled/reused within factory premises to achieve zero discharge except rainy season.	***will be Complied.*** The treated effluent after confirming the prescribed standard is discharged in Garamiya nala which further meets River Bhukhi as per permission from the GPCB. No process effluent will be discharged in and around the project site. Sewage will be treated in STP and treated water shall be recycled/reused within factory premises to achieve zero discharge except rainy season.
13	Regular monitoring of ground water by installing peizometric wells around the guard pond and sludge disposal sites shall periodically be done and report submitted to the Bhopal Regional Office of the Ministry, CPCB and SPCB.	***Complied***. Regular monitoring of ground water is carried out by the GNFC. Analysis report of the same is attached herewith as Annexure-II.
14	The company shall construct the garland drain all around the project site to prevent runoff of any chemicals containing waste into the nearby water bodies. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.	***Will be complied***. GNFC will construct the garland drain all around the project site to prevent runoff of any chemicals containing waste into the nearby water bodies. Effluent will be properly treated and treated wastewater will be as per CPCB/GPCB standards.
15	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Handling and Trans-Boundary Movement) Rules 2016 shall be taken for fire fighting facilities in case of emergency.	GNFC (Unit-1) & (Unit-2) have Consolidated Consent & Authorisation (CCA) valid upto 12.04.2020 & 17.05.2018 respectively.CCA of GNFC (Unit-2) for proposed TDI:MDI blend project CCA is already amended from GPCB.
16	Spent catalysts and used oil shall be sold to authorized recyclers/re-processors only.	***Will be complied.*** Spent catalysts will be sold to authorized recyclers/re-processors only and used oil will be recycled in existing ammonia gassification process.

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Sr No.	Specific Conditions	Complience Status / Action Taken as on Dec-17
17	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	***Will be complied***. GNFC will comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended from time to time. All Transportation of Hazardous Chemicals will be as per the Motor Vehicle Act (MVA), 1989.
18	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	***Complied.*** GNFC is already follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).
19	20,000 Tons ammonia shall be stored in (2x 10000 Tons Tanks). Both tanks shall be converted into double walled and double integrity. Otherwise one more tank of 10,000 Ton should be installed.	***Will be complied.***
20	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	***Complied***. Occupational health surveillance of the workers is carried out by GNFC for their employees as well as contractual workers on a regular basis and records maintained as per the Factories Act.
21	All the commitments made during the Public Hearing / Public Consultation meeting held on 30.09.2014 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	***Noted***
22	As proposed, green belt over 33 % of the total project area shall be developed within plant premises with at least 10 meter wide green belt on a~1 sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	***Will be Complied***. GNFC has alreadt developed green belt over 33 % of the total project area. GNFC will develop at least 10 meter wide green belt on a~1 sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species will be as per the CPCB guidelines in consultation with the DFO.
23	At least 2.5 % of the total cost of the project shall be earmarked towards *the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.*	**Noted**
24	Remote operated valve placed on NH3 line to avoid leakage/equipment check should be performed to ensure that remote operated valve (ROV) is all time is functional.	***Will be complied***. Point will be taken care during detailed engineering.
25	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	***Will be complied***. Point will be taken care during execution of project.

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.	General Conditions	Complience Status / Action Taken as on Dec-17
	The project authorities must strictly adhere to the stipulations made by the Gujara Pollution Control Board (GPCB), State Government and any other statutory authority.	***Will be complied***. We will strictly adhere to the stipulations made by the Gujara Pollution Control Board (GPCB), State Government and any other statutory authority.
	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	***Noted***
	The locations of ambient air quality monitoring stations shall be decided in consultation with the Gujarat Pollution Control Board (GPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	**Complied.**
	The overall noise levels in and around ,the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	***Will be complied***. The overall noise levels in and around ,the plant area will be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels will be as per the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
	The Company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	***Will be complied.*** The Company will provide rainwater harvesting from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.	***Will be complied***. During transfer of materials, spillages will be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
	Usage of Personnel Protection Equipments by all employees & workers shall be ensured.	***Complied.*** Usage of Personnel Protection Equipments by all employees & workers shall be ensured.
	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	***Being complied.***
	The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	***Will be complied.***
	The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.	***Complied.*** GNFC is already carrying out CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.

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S OF COMPLIANCE OF THE ENVIRONMENTAL CLEARANCE CONDITIONS FOR BROWN FIELD AMMONIA-UREA PLANT, NEW ANILINE, MDI BLENDS, WATER SOLUBLE FERTILIZERS (NPK), ACETIC ACID AND CPSU PLANTS AT NARMADANAGAR, BHARUCH, GUJARAT BY GUJARAT NARMADA VALLEY FERTILIZERS AND CHEMICALS LIMITED (GNFC)

General Conditions	Complience Status / Action Taken as on Dec-17
The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	*Will be complied.*
A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	**Complied.** Projects are being set up at existing production facility where separate Environmental Management Cell equipped with full fledged laboratory facilities is available to carry out the Environmental Management and Monitoring functions
The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management! pollution control measures shall not be diverted for any other purpose.	*Will be complied.*
A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.	**Complied.** Copies of forwarding letter was submitted in compliance report Sep-15.
The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as bye-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the Gujarat Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	**Complied till completion of projects.**
The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Gujarat Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Bhopal Regional Offices of MoEF bye-mail.	**Complied.**
The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at **http://envfor.nic.in**. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Advertised in following newspapers TIMES OF INDIA - 18.04.2015 Divya Bhaskar - 19.04.2015 Copy of same was submitted in compliance report Sep-15.
The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Till date only TDI-MDI Blends project is implemented. Details of the same is submitted in compliance report May-17.

Gujarat Narmada Valley Fertilizers & Chemicals Ltd.
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AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH OF June-17

Name & Address of Indu. Location of AAQMS

GUJARAT NARMADA VALLEY FERTILIZERS & CHEMICALS LIMITED (UNIT-1), NARMADANAGAR - BHARUCH-392015

Parameters analysed

SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (NOx) µg/m3			Oxide of sulphur (SOx) µg/m3			Ammonia NH_3 µg/m3			Hydrogen Sulphide (H2S) µg/m3			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
1	Township Guest House	45.00	24.00	35.00	83.00	60.00	72.00	35.00	19.00	27.00	17.00	2.00	5.00	31.00	4.00	15.00	0.80	0.20	0.50	2.10	0.60	1.10	1.50	0.70	1.10	1.20	0.30	0.70	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB
2	Tissue culture lab area	51.00	33.00	41.00	90.00	67.00	79.00	38.00	19.00	30.00	18.00	2.00	10.00	38.00	6.00	19.00	1.00	0.40	0.70	1.40	0.40	0.90	1.60	0.40	1.10	1.00	0.30	0.70	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB
3	Logistic Yard	54.00	31.00	40.00	91.00	69.00	79.00	40.00	19.00	31.00	19.00	2.00	9.00	58.00	15.00	39.00	1.60	0.40	1.10	1.90	0.50	1.10	1.60	0.60	1.10	1.20	0.30	0.80	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB
4	GNFC North gate	51.00	31.00	44.00	94.00	29.00	75.00	41.00	23.00	33.00	21.00	2.00	12.00	60.00	15.00	39.00	1.30	0.20	1.00	1.70	0.30	1.20	1.60	0.90	1.20	1.10	0.30	0.70	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB

SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (NOx) µg/m3			Oxide of sulphur (SOx) µg/m3			Ammonia NH_3 µg/m3			Hydrogen Sulphide (H2S) µg/m3			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
5	WWTP-I control Room	48.00	30.00	41.00	84.00	73.00	78.00	34.10	27.40	31.00	10.40	4.60	8.10	46.90	24.30	37.80	1.20	0.50	0.80	1.40	0.70	1.10	1.60	0.80	1.20	0.90	0.40	0.70	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB
6	Main Gate near NH-8	53.00	32.00	42.00	90.00	69.00	80.00	35.40	25.30	30.80	15.50	4.80	10.10	42.70	23.60	37.10	1.10	0.60	0.80	1.90	0.40	1.00	1.70	0.90	1.20	0.80	0.30	0.60	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB

Remark:- AB means Absent

Gujarat Narmada Valley Fertilizers & Chemicals Ltd. ★ BHARUCH 392 015.

[illegible]

SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (Nox) µg/m3			Oxide of sulphur (Sox) µg/m3			Ammonia NH3 µg/m3			Hydrogen Sulphide (H2S)			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
1	Township Guest House	41.00	33.00	38.00	72.00	61.00	66.00	35.00	26.00	30.00	12.00	1.00	6.00	38.00	4.00	19.00	1.10	0.50	0.80	2.10	0.70	1.60	1.30	1.00	1.20	1.10	0.60	0.90	<65	<65	<65	<115	<115	<115	AB	AB	AB
2	Tissue culture lab area	37.00	29.00	34.00	72.00	62.00	67.00	36.00	26.00	31.00	16.00	2.00	8.00	44.00	6.00	24.00	1.10	0.50	0.90	2.10	0.70	1.20	1.50	1.00	1.20	1.10	0.70	0.90	<65	<65	<65	<115	<115	<115	AB	AB	AB
3	Logistic Yard	49.00	35.00	41.00	82.00	66.00	72.00	40.00	27.00	33.00	18.00	3.00	11.00	60.00	27.00	43.00	1.30	0.90	1.10	1.90	1.00	1.40	1.70	1.10	1.30	1.10	0.80	0.90	<65	<65	<65	<115	<115	<115	AB	AB	AB
4	GNFC North gate	46.00	33.00	39.00	80.00	66.00	74.00	37.00	21.00	29.00	19.00	3.00	8.00	60.00	27.00	42.00	1.40	0.80	1.00	1.70	0.70	1.20	1.60	1.00	1.20	1.00	0.70	0.80	<65	<65	<65	<115	<115	<115	AB	AB	AB
SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (Nox) µg/m3			Oxide of sulphur (Sox) µg/m3			Ammonia NH3 µg/m3			Hydrogen Sulphide (H2S) µg/m3			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB

Remark:- AB means Absent

Gujarat Narmada Valley Fertilizers & Chemicals Ltd. ★ BHARUCH 392 015.

[illegible] Aug-17

GUJARAT NARMADA VALLEY FERTILIZERS & CHEMICALS LIMITED (UNIT-I), NARMADANAGAR - BHARUCH-392015

Parameters analysed

SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (NOx) µg/m3			Oxide of sulphur (SOx) µg/m3			Ammonia NH_3 µg/m3			Hydrogen Sulphide (H2S) µg/m3			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
1	Township Guest House	48.00	28.00	36.00	85.00	65.00	74.00	35.00	20.00	29.00	13.00	1.00	5.00	35.00	6.00	19.00	1.10	0.70	0.90	1.10	0.70	0.90	1.50	1.20	1.30	0.90	0.50	0.60	<65	<65	<65	<115	<115	<115	AB	AB	AB
2	Tissue culture lab area	52.00	35.00	42.00	87.00	67.00	77.00	40.00	20.00	31.00	15.00	3.00	8.00	43.00	8.00	25.00	1.20	0.70	1.00	1.60	0.60	1.00	1.60	1.30	1.50	1.10	0.50	0.90	<65	<65	<65	<115	<115	<115	AB	AB	AB
3	Logistic Yard	56.00	41.00	46.00	90.00	70.00	77.00	42.00	25.00	34.00	17.00	5.00	11.00	56.00	29.00	45.00	1.30	0.80	1.10	2.10	0.70	1.30	1.60	1.30	1.50	1.00	0.60	0.80	<65	<65	<65	<115	<115	<115	AB	AB	AB
4	GNFC North gate	48.00	34.00	41.00	86.00	68.00	73.00	39.00	25.00	32.00	23.00	4.00	12.00	60.00	27.00	43.00	1.20	0.90	1.10	2.10	0.80	1.40	1.80	1.20	1.50	1.20	0.30	0.80	<65	<65	<65	<115	<115	<115	AB	AB	AB
SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (NOx) µg/m3			Oxide of sulphur (SOx) µg/m3			Ammonia NH_3 µg/m3			Hydrogen Sulphide (H2S) µg/m3			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
5	[illegible]	42.30	[illegible]	35.30	75.30	62.30	71.30	31.10	25.30	29.20	8.10	4.58	6.38	46.20	31.60	39.50	1.20	0.80	1.30	2.10	0.70	1.40	1.60	1.10	1.40	1.10	0.70	0.90	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB
6	Main Gate near NH-8	47.80	34.80	40.80	87.80	61.80	76.80	39.40	29.20	33.70	15.20	7.10	10.30	43.40	35.10	39.50	1.20	0.70	1.00	2.10	1.10	1.60	1.70	1.00	1.40	1.00	0.60	0.80	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB

Remark:- AB means Absent

Gujarat Narmada Valley Fertilizers & Chemicals Ltd. ★ BHARUCH 392 015.

[illegible]

[illegible]		GUJARAT NARMADA VALLEY FERTILIZERS & CHEMICALS LIMITED (UNIT-1), NARMADANAGAR - BHARUCH-392015																																				
		Parameters analysed																																				
SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (Nox) µg/m3			Oxide of sulphur (Sox) µg/m3			Ammonia NH_3 µg/m3			Hydrogen Sulphide (H2S)			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
1	Township Guest House	41.00	27.00	35.00	83.00	69.00	76.00	35.00	15.00	28.00	12.00	1.00	6.00	33.00	8.00	21.00	1.20	0.60	0.90	1.10	0.70	0.90	1.50	1.20	1.30	0.90	0.50	0.60	<65	<65	<65	<115	<115	<115	AB	AB	AB
2	Tissue culture lab area	49.00	38.00	44.00	94.00	72.00	82.00	40.00	26.00	32.00	14.00	2.00	8.00	50.00	24.00	28.00	1.30	0.70	1.00	1.60	0.60	1.00	1.60	1.30	1.50	1.10	0.50	0.90	<65	<65	<65	<115	<115	<115	AB	AB	AB
3	Logistic Yard	52.00	34.00	41.00	87.00	74.00	82.00	44.00	26.00	36.00	21.00	3.00	11.00	70.00	20.00	47.00	1.40	0.90	1.20	2.10	0.70	1.30	1.60	1.30	1.50	1.00	0.60	0.80	<65	<65	<65	<115	<115	<115	AB	AB	AB
4	GNFC North gate	42.00	30.00	36.00	87.00	69.00	77.00	41.00	22.00	32.00	17.00	2.00	9.00	60.00	25.00	43.00	1.20	0.70	0.90	2.10	0.80	1.40	1.80	1.20	1.50	1.20	0.30	0.80	<65	<65	<65	<115	<115	<115	AB	AB	AB
SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (NOx) µg/m3			Oxide of sulphur (SOx) µg/m3			Ammonia NH_3 µg/m3			Hydrogen Sulphide (H2S) µg/m3			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.70	8.20	[illegible]	[illegible]	[illegible]	1.30	[illegible]	[illegible]	1.80	1.40	1.30	1.52	1.20	1.30	1.80	0.40	0.80	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB
6	Main Gate near NH-8	[illegible]	27.00	[illegible]	[illegible]	75.30	81.30	37.20	31.60	34.70	19.20	6.60	11.10	48.30	32.60	40.50	1.20	0.70	1.00	2.10	0.70	1.40	1.80	1.30	1.60	1.20	0.40	0.90	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB

Remark:- AB means Absent

Gujarat Narmada Valley Fertilizers & Chemicals Ltd. ★ BHARUCH 392 015.

[illegible]

[illegible]		GUJARAT NARMADA VALLEY FERTILIZERS & CHEMICALS LIMITED [illegible], NARMADANAGAR - BHARUCH-[illegible]																																				
		Parameters analysed																																			
SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (NOx) µg/m3			Oxide of sulphur (SOx) µg/m3			Ammonia NH_3 µg/m3			Hydrogen Sulphide (H2S)			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
1	Township Guest House	48.00	27.00	35.00	85.00	62.00	73.00	35.00	14.00	25.00	13.00	1.00	5.00	35.00	1.00	17.00	1.10	0.70	0.90	1.70	0.50	1.10	1.60	1.10	1.30	1.00	0.30	0.60	<65	<65	<65	<115	<115	<115	AB	AB	AB
2	Tissue culture lab area	49.00	24.00	37.00	86.00	69.00	77.00	44.00	14.00	31.00	26.00	2.00	10.00	43.00	8.00	25.00	1.20	0.90	1.10	1.70	0.70	1.40	1.60	1.30	1.40	1.00	0.60	0.80	<65	<65	<65	<115	<115	<115	AB	AB	AB
3	Logistic Yard	52.00	30.00	44.00	93.00	68.00	82.00	4.00	24.00	36.00	17.00	2.00	10.00	75.00	10.00	46.00	1.20	0.80	1.00	1.80	1.10	1.40	1.60	1.30	1.50	1.10	0.60	0.80	<65	<65	<65	<115	<115	<115	AB	AB	AB
4	GNFC North gate	47.00	29.00	37.00	85.00	70.00	76.00	49.00	14.00	33.00	19.00	3.00	10.00	68.00	16.00	43.00	1.20	0.60	0.90	2.10	0.80	1.40	1.70	1.20	1.50	1.10	0.50	0.80	<65	<65	<65	<115	<115	<115	AB	AB	AB

SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (NOx) µg/m3			Oxide of sulphur (SOx) µg/m3			Ammonia NH_3 µg/m3			Hydrogen Sulphide (H2S) µg/m3			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
5	WWTP-I control Room	52.00	30.00	36.00	86.00	67.00	75.00	38.80	25.70	30.70	16.90	6.30	9.80	51.70	31.30	38.80	1.10	0.80	1.00	2.10	0.70	1.20	1.70	1.40	1.50	1.00	0.50	0.70	<65	<65	<65	<115	<115	<115	Absent	Absent	Absent
6	Main Gate near NH-8	44.00	32.00	38.00	80.00	73.00	76.00	35.70	28.10	31.70	13.40	5.40	9.50	45.10	32.60	39.80	1.30	0.60	1.00	2.10	1.10	1.50	1.70	1.40	1.60	1.10	0.50	0.80	<65	<65	<65	<115	<115	<115	Absent	Absent	Absent

Remark:- AB means Absent

Gujarat Narmada Valley Fertilizers & Chemicals Ltd. ★ BHARUCH 392 015.

[illegible]

[illegible]		[illegible]																																			
		Parameters analysed																																			
SR. NO.	LOCATION	Particulate matter (PM 2.5) μg/m3			Particulate matter (PM 10) μg/m3			Oxide of Nitrogen (NOx) μg/m3			Oxide of sulphur (SOx) μg/m3			Ammonia NH_3 μg/m3			Hydrogen Sulphide (H2S)			HCL μg/m3			Cl2 μg/m3			HF μg/m3			HC μg/m3			CO μg/m3			Benzene μg/m3	Phosgene μg/m3	CS2 μg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
1	Township Guest House	50.00	30.00	37.00	81.00	69.00	75.00	37.00	8.00	23.00	13.00	1.00	7.00	37.00	2.00	17.00	1.70	1.00	1.20	2.40	0.80	1.30	1.50	1.30	1.40	0.90	0.60	0.70	<65	<65	<65	<115	<115	<115	AB	AB	AB
2	Tissue culture lab area	41.00	20.00	36.00	80.00	62.00	72.00	40.00	9.00	24.00	22.00	2.00	7.00	47.00	10.00	29.00	1.30	0.90	1.00	1.60	0.70	1.10	1.70	1.20	1.60	1.00	0.60	0.80	<65	<65	<65	<115	<115	<115	AB	AB	AB
3	Logistic Yard	56.00	28.00	44.00	92.00	80.00	87.00	47.00	12.00	33.00	19.00	1.00	6.00	75.00	18.00	45.00	1.30	0.90	1.00	2.00	0.70	1.50	1.60	1.10	1.40	1.00	0.60	0.70	<65	<65	<65	<115	<115	<115	AB	AB	AB
4	GNFC North gate	42.00	30.00	37.00	89.00	71.00	78.00	47.00	10.00	27.00	15.00	1.00	7.00	64.00	8.00	45.00	2.40	0.90	1.40	1.80	0.80	1.50	1.60	1.20	1.50	1.70	0.70	1.00	<65	<65	<65	<115	<115	<115	AB	AB	AB

SR. NO.	LOCATION	Particulate matter (PM 2.5) μg/m3			Particulate matter (PM 10) μg/m3			Oxide of Nitrogen (NOx) μg/m3			Oxide of sulphur (SOx) μg/m3			Ammonia NH_3 μg/m3			Hydrogen Sulphide (H2S) μg/m3			HCL μg/m3			Cl2 μg/m3			HF μg/m3			HC μg/m3			CO μg/m3			Benzene μg/m3	Phosgene μg/m3	CS2 μg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
5	WWTP-I control Room	51.00	34.00	40.00	89.00	63.00	78.00	31.30	20.40	26.40	12.60	5.50	7.80	49.70	34.40	40.20	1.70	1.00	1.20	2.40	0.70	1.30	1.70	1.20	1.50	1.10	0.70	0.90	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB
6	Main Gate near NH-8	48.00	37.00	41.00	83.00	69.00	78.00	32.40	17.20	22.60	9.50	6.30	7.80	50.00	34.40	40.10	1.90	0.90	1.20	2.40	0.80	1.60	1.70	1.10	1.50	1.20	0.70	0.90	<65	<65	<65	<1146	<1146	<1146	AB	AB	AB

Remark:- AB means Absent

Gujarat Narmada Valley Fertilizers & Chemicals Ltd. ★ BHARUCH 392 015.

[illegible]

[illegible]	[illegible]																																				
		Parameters analysed																																			
SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (NOx) µg/m3			Oxide of sulphur (SOx) µg/m3			Ammonia NH_3, µg/m3			Hydrogen Sulphide (H2S)			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
1	Township Guest House	39.00	29.00	35.00	82.00	68.00	74.00	30.00	17.00	22.00	15.00	4.00	8.00	32.00	8.00	20.00	2.20	0.90	1.70	2.90	0.90	1.80	1.60	0.90	1.30	1.10	0.60	0.90	<65	<65	<65	<115	<115	<115	AB	AB	AB
2	Tissue culture lab area	44.00	32.00	38.00	85.00	69.00	77.00	27.00	12.00	20.00	12.00	2.00	7.00	48.00	8.00	28.00	2.60	1.10	1.70	3.60	1.20	2.10	1.80	1.30	1.60	1.40	0.70	1.00	<65	<65	<65	<115	<115	<115	AB	AB	AB
3	Logistic Yard	42.00	30.00	36.00	80.00	70.00	75.00	36.00	18.00	26.00	11.00	2.00	7.00	63.00	21.00	37.00	2.50	1.00	1.80	2.50	1.10	1.60	1.70	1.30	1.50	1.50	0.70	1.00	<65	<65	<65	<115	<115	<115	AB	AB	AB
4	GNFC North gate	50.00	33.00	38.00	85.00	76.00	80.00	36.00	13.00	24.00	14.00	1.00	8.00	56.00	21.00	40.00	2.60	1.30	2.00	2.40	0.90	1.70	1.70	1.30	1.50	1.30	0.80	1.10	<65	<65	<65	<115	<115	<115	AB	AB	AB
SR. NO.	LOCATION	Particulate matter (PM 2.5) µg/m3			Particulate matter (PM 10) µg/m3			Oxide of Nitrogen (NOx) µg/m3			Oxide of sulphur (SOx) µg/m3			Ammonia NH_3 µg/m3			Hydrogen Sulphide (H2S) µg/m3			HCL µg/m3			Cl2 µg/m3			HF µg/m3			HC µg/m3			CO µg/m3			Benzene µg/m3	Phosgene µg/m3	CS2 µg/m3
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
5	WWTP-I control Room	44.00	30.00	37.00	85.00	70.00	77.00	32.60	23.20	25.80	10.60	6.10	8.40	43.00	32.50	38.80	2.60	1.20	1.90	2.50	1.10	1.60	1.70	1.00	1.50	1.80	0.70	1.20	<65	<65	<65	<115	<115	<115	AB	AB	AB
6	Main Gate near NH-8	43.00	26.00	36.00	81.00	71.00	78.00	34.00	19.50	23.90	10.50	5.20	7.80	47.60	35.10	39.30	2.10	1.00	1.70	2.40	1.00	1.70	2.20	0.90	1.50	1.60	0.70	1.10	<65	<65	<65	<115	<115	<115	AB	AB	AB

Remark:- AB means Absent

Gujarat Narmada Valley Fertilizers & Chemicals Ltd. ★ BHARUCH 392 015.

Annexure-II

CENTRAL LABORATORY

CENLAB/Misc.-13/2016-17 Date : 07-07-2017

Analysis Report of Borewell water

Source : ECU

Samples : As per attached separate sheet

Sub. : Analysis of water samples collected from bore wells of various villages surrounding at GNFC.

Date of Receipt : 23/06/2017

[illegible]	Test	Unit	Result									
	*Borewell No.		1	2	3	4	5	6	7	8	9	10
[illegible]	pH	--	7.8	8.5	7.4	7.7	9.1	8.0	7.4	8.3	8.2	7.9
[illegible]	Amm.Nitrogen as N	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
[illegible]	Phosphate as P	ppm	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
[illegible]	Nitrate as N	ppm	<10	<10	<10	<10	<10	<10	11	<10	<10	<10
[illegible]	Fluoride as F	ppm	0.4	0.1	0.1	0.2	0.4	0.4	0.2	0.2	0.1	0.1
[illegible]	COD	ppm	12	15	62	80	55	62	63	62	22	15
[illegible]	% Sodium	ppm	64.7	66.6	29.8	48.5	83.7	42.7	42.9	62.1	56.7	31.9
[illegible]	Zinc as Zn	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
[illegible]	Cadmium as Cd	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
[illegible]	Nickel as Ni	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
[illegible]	Lead as Pb	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
[illegible]	Vanadium as V	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
[illegible]	Hexa. Cromium as	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
[illegible]	Total Cromium as Cr	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
[illegible]	Copper as Cu	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

ANALYST CHECKED BY CM(PRD)

AGM(ANT)/M(SMM)

Gujarat Narmada Valley Fertilizers & Chemicals Ltd. BHARUCH 392 15.

*Sample Details : Bore wells of various locations of villages surrounding GNFC.

Sample-2 : Near north gate security office (Vadadla security gate)

Sample-3 : Near GNFC compound wall (Ani-TDI corner side)

Sample-4 : Near security watch tower at Railway Nala sampling point

Sample-5 : Near water tank at Sherpura village gram panchayat office

Sample-6 : Near Umraj village school

Sample-7 : Near Chavaj village school

Sample-8 : Near water tank at Rhadpore village gram panchayat office

Sample-9 : Near temple of Bholav village

Sample-10 : Near bus stand at Haldarva village

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Gujarat Narmada Valley Fertilizers & Chemicals Ltd.

CENTRAL LABORATORY

CENLAB/Misc.-31/2016-17 Date : 11-12-2017

Analysis Report of Borewell water

Source : ECU

Samples : As per attached separate sheet

Sub. : Analysis of water samples collected from bore wells of various villages surrounding at GNFC.

Date of Receipt : 28/10/2017

Test	Unit	Result									
Borewell No.		1	2	3	4	5	6	7	8	9	10
pH	--	8.6	8.6	8.3	8.5	8.9	8.6	7.6	8.3	8.5	7.4
Amm.Nitrogen as N	ppm	NT	NT	4.0	NT	NT	NT	4.0	NT	NT	5.0
Phosphate as P	ppm	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Nitrate as N	ppm	33	<10	26	<10	<10	<10	14	<10	<10	<10
Fluoride as F	ppm	0.8	0.2	0.1	0.70	0.6	0.7	0.10	0.2	0.1	0.1
COD	ppm	32	13	13	23	23	19	32	13	19	19
% Sodium	ppm	65	81	29	49	81	42	40	78	53	67
Zinc as Zn	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium as Cd	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nickel as Ni	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead as Pb	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Vanadium as V	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Hexa. Cromium as	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Cromium as Cr	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Copper as Cu	ppm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

ANALYST CHECKED BY CM(PRD)

SM(ANT)/M(SMM)

Gujarat Narmada Valley Fertilizers & Chemicals Ltd. ★ BHARUCH 392 015.

*Sample Details : Bore wells of various locations of villages surrounding GNFC.

Sample-1 : Near Transport office at North side of ash pond

Sample-2 : Near north gate security office (Vadadla security gate)

Sample-3 : Near GNFC compound wall (Ani-TDI corner side)

Sample-4 : Near security watch tower at Railway Nala sampling point

Sample-5 : Near water tank at Sherpura village gram panchayat office

Sample-6 : Near Umraj village school

Sample-7 : Near Chavaj village school

Sample-8 : Near water tank at Rhadpore village gram panchayat office

Sample-9 : Near temple of Bholav village

Sample-10 : Near bus stand at Haldarva village

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