

इंडियन फार्मर्स फर्टिलाइजर कोऑपरेटिव लिमिटेड
INDIAN FARMERS FERTILISER CO-OPERATIVE LTD.

Ref: TE/02/249 (CEP/LNG)

Date: 27.04.2024

To,

The Regional Office (Central Region)
Ministry of Environment & Forests
Govt. of India,
Kendriya Bhawan, 5th Floor,
Sector "H" Aliganj,
Lucknow-226024

**Sub: Capacity Enhancement /de-bottlenecking and LNG Conversion
Project of IFFCO Phulpur, Allahabad.**

Ref. : (i) Your letter No. IV/ENV/UP/IND-83/204/2006/385 dt. 27.08.2008
(ii) Ministry of Environment and Forests, New Delhi Office Memorandum
No. J-11011/150/2006-IA II (I) dated 14th July, 2006.

Sir,

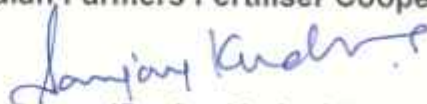
This has reference to your above letter regarding submission of half yearly compliance report on the implementation of Environmental Condition for Capacity Enhancement / de-bottlenecking and LNG Conversion Project of IFFCO Phulpur Plant. In this context, kindly find attached herewith the said compliance report for the period October-2023 to March-2024.

Hope the above information regarding compliance of environmental condition would suffice.

Thanking you,

Your's faithfully

For Indian Farmers Fertiliser Cooperative Ltd.



**(Sanjay Kudesia)
Sr. Executive Director**

Encl : as above

- cc: 01. Regional Officer,
U.P. Pollution control Board,
Sector- 10 Yojna No.-3
Avas Vikas Parishad Colony
Jhansi, Prayagraj – 211019
02. Member Secretary,
U.P. Pollution control Board,
"TC-12/V" Vibhuti Khand,
Gomti Nagar, Lucknow-226010
03. Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
New Delhi-110032

P.O. Ghiyanagar, Prayagraj-212404 (U.P.) Phone : (05332) 253374, 251243

पोस्ट : घियागंज, प्रयागराज-212404 (उ.प्र.) फोन : (05332) 253374, 251243

तार / Gram : इफको घियागंज, IFFCO Ghiyanagar, फैक्स / Fax : General - (05332) 251252, Maintenance (05332) 251263

ईमेल / E-Mail : phulpur@iffco.in वेबसाइट / Website : www.iffco.in



Environmental Clearance Condition Wise Compliance Status

Project Code: UP-83-204-2006

Name of the Project: Capacity Enhancement/debottlenecking and LNG conversion project of M/s IFFCO Phulpur, Allahabad

Clearance Letter No.: J-11011/150/2006-IA. II(I) Dated 14.07.2006.

Period of Compliance Report: (October - 2023 to March -2024)

Specific Conditions:

Specific Conditions:		Compliance Status					
Sr.No.	Conditions						
1.	The gaseous emissions (SO ₂ , NO _x , NH ₃ , Urea dust) particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. CO ₂ recovery plant shall be installed to reduce CO ₂ emissions in the environment. At no time, the emission levels shall go beyond the stipulated standards, In the event of failure of pollution control systems(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	The gaseous emission from Stacks / Chimney of IFFCO, Phulpur unit always conforms to the prescribed standards laid down by the UPPCB, Lucknow and CPCB / MoEFCC, New Delhi.					
Stack Analysis (Range) actually obtained during the period of October-2023 to March-2024							
		Sample Point	SO ₂ (mg/Nm ³)	SPM (mg/Nm ³)	AMMONIA (mg/Nm ³)	UREA DUST (mg/Nm ³)	NO _x (mg/Nm ³)
		Power Plant-I stack	310-275	30-26	-	-	227-175
		Power Plant-II stack	-	-	-	-	-
		Prilling Tower -I	-	-	37.20-33.60	42.30-39.20	-
		Prilling Tower -II	-	-	37.50-35.50	42.40-40.30	-
		Pri. Reformer -I stack	<1.0	-	-	-	136-120
		Pri.Reformer -II stack	<1.0	-	-	-	136-120
		GT-HRSG	<1.0	-	-	-	24 -19
		A 450 MT per day Carbon Dioxide Recovery Plant to recover CO ₂ from flue gases of primary reformer has been installed, commissioned and in operation since Dec. 2006. This has resulted in a substantial reduction of CO ₂ emission in the environment. Report of Stacks emission and Ambient Air quality analysis by NABL accredited, (third party) is attached as Annexure-1 .					
2.	In urea plant, particulate emissions shall not exceed 50 mg/m3. Monitoring of the prilling tower shall be carried out as per CPCB guidelines. Hydrocarbon monitors shall be installed.	Monitoring of the pilling tower is being carried out as per CPCB guidelines. The particulate emissions (42.40- 39.20.20 mg/ Nm ³) from Urea plant is always well within the prescribed norms. On-line Methane analyzers are installed in Ammonia plant to monitor Hydrocarbons in addition to Gas Chromatographs installed in Laboratory.					

3.	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the UPPCB, and data submitted to the Ministry's Regional Office at Lucknow six monthly and UPPCB quarterly along with statistical analysis.	Five ambient air quality monitoring stations have been set up in consultation with UPPCB at locations suggested by Regional Officer, UPPCB, Prayagraj. Ambient air quality monitoring data is submitted monthly to UPPCB, Lucknow, CPCB, New Delhi & Regional Office, MoEFCC, Lucknow. All values are within the limit. Ambient Air Quality (Range) actually obtained during the period of October-2023 to March-2024. <table><tr><th>AAQ Monitoring Stations</th><th>PM_{2.5} (microgram/m³)</th><th>PM₁₀ (microgram/m³)</th><th>SO₂ (microgram/m³)</th><th>Ammonia (microgram/m³)</th><th>NO_x (microgram/m³)</th></tr><tr><td>CORDET</td><td>38-29</td><td>59-47</td><td>18-12</td><td>39-28</td><td>24-14</td></tr><tr><td>Central School</td><td>38-28</td><td>58-48</td><td>18-10</td><td>38-28</td><td>25-15</td></tr><tr><td>Railway Gate</td><td>39-28</td><td>59-48</td><td>25-10</td><td>38-29</td><td>25-12</td></tr><tr><td>Behind R.O.</td><td>39-28</td><td>59-48</td><td>19-11</td><td>38-28</td><td>25-16</td></tr><tr><td>Gate No.4</td><td>38-28</td><td>58-48</td><td>18-10</td><td>38-28</td><td>25-16</td></tr></table>	AAQ Monitoring Stations	PM _{2.5} (microgram/m ³)	PM ₁₀ (microgram/m ³)	SO ₂ (microgram/m ³)	Ammonia (microgram/m ³)	NO _x (microgram/m ³)	CORDET	38-29	59-47	18-12	39-28	24-14	Central School	38-28	58-48	18-10	38-28	25-15	Railway Gate	39-28	59-48	25-10	38-29	25-12	Behind R.O.	39-28	59-48	19-11	38-28	25-16	Gate No.4	38-28	58-48	18-10	38-28	25-16
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Gate No.4	38-28	58-48	18-10	38-28	25-16																																	
4.	Total water requirement after expansion shall not exceed 35,500 m ³ /d. All the effluent generated shall be recycled & reused in the process to reduce the fresh water.	Total water consumption after commissioning of Capacity Enhancement Project is around 32212 M³/d during October-2023 to March-2024, as against envisaged quantity of 35500 M³/d. All the effluent generated is recycled & reused in the plant process / irrigation of farmland of our Farmer Training Institute and Green belt after adequate treatment within our premises. No effluent is discharged outside the premises except during the rainy season. The quality of final treated effluent always conforms to the standards prescribed under the E (P) Act 1986 and norms laid down by the U.P. Pollution Control Board Lucknow. Report of Effluent water generated and recycled/reused, and ground water quality being abstracted, by NABL accredited, (third party) is attached as Annexure-2.																																				

	consumption or green belt development. No effluent shall be discharged outside the premises except during the rainy season after meeting the norms prescribed under the E (P) Act, 1986 and UPPCB, whichever are more stringent.	Range of Effluent Analysis (Guard Pond) during the period of October-2023 to March-2024. (All values are in mg/l except pH)								
		Characteristics			Characteristics			Characteristics		
		pH	7.60 -7.20	Total Chromium as Cr ₆	N.T.	Free Ammonia As N	0.88 - 0.17			
		TSS	63 -36	Hexavalent Chromium as Cr ⁺⁶	N.T.	Total Kjeldahl Nitrogen as N	40.80 - 31.42			
		BOD ₅ at 27 deg C	28.00 -17.00	Zinc as Zn	N.T.	Nitrate Nitrogen as N	5.47 - 2.47			
		Oil & Grease	4 - N.T.	COD	84.00-42.00	Dissolved Phosphate	0.91 -0.63			
		Colour & Odour	Absent	Chlorides as Cl	985 - 831	Vanadium as V	N.T.			
5.	Regular monitoring of ground water by installing peizometric wells around the guard pond and Chromium sludge disposal site shall be periodically monitored and reports submitted to Ministry's Regional Office at Lucknow, CPCB and UPPCB.	We have installed a hand pump near the Chromium sludge disposal pit and Guard Pond area to monitor the ground water quality. Ground water monitoring is done on a monthly basis. Ground Water Quality (Range) during October-2023 to March-2024.								
		Date of Sampling / Analysis			Location (within plant)					
					Near Chromium Sludge Disposal Pit	Near Guard Pond				
		pH			7.45 - 7.35			7.45 - 7.20		
		Hexavalent Chromium (ppm as Cr ⁺⁶)			N.T.			N.T.		
		Total Chromium (ppm as Cr)			N.T.			N.T.		
		Ammonical Nitrogen (ppm as N)			N.T.			N.T.		
		Nitrate Nitrogen (ppm as N)			1.68 - 1.45			1.60 - 1.38		
		Total Dissolved Solid (ppm)			970 - 930			950 - 920		
6.	As per the Fly ash notification, 100% utilization of the fly ash generated shall be ensured. Ash shall be provided to different users for making bricks etc. or properly used for filling low-lying areas of the township, surrounding villages and developing green belt. Spent catalysts generated shall be properly stored in closed metallic drums before selling to	We have complied with the provision of Fly ash notification issued by MOEF, New Delhi. Fly ash generated in the power plant is directly dispatched to the bonafide user like cement manufacturers and others. During last year (April-2023-March-2024), 91830 MT of Ash has been dispatched and utilized by Cement Industries and others against the generation of 46202 MT. Fly Ash is also utilized in manufacturing of bricks in the plant premises, and land reclamation etc. hence, Ash Utilization is more than 100% of Ash generation. During the period, from October 2023 to March-2024, 46448 MT Fly Ash has been dispatched and utilized by others against the generation of 21378 MT.								

	authorized recyclers / reprocessors. Waste oil shall be used in steam generation plants as fuel alongwith coal or sold to authorized recyclers/ reprocessors.	Spent catalysts are stored in closed Metallic drums under shed inside the factory premises for sale to authorized recyclers/ reprocessors for Metal recovery. Waste oil collected is stored inside the factory premises for sale to authorized recyclers / re-processors.
7.	The company shall undertake adequate protection measures for handling of ammonia vapours in case of plant upset condition. Safety well exhaust and drains shall be connected to a separate close header from which ammonia vapours shall be vented from vent stack after diluting with steam.	Adequate arrangement has been made for handling of ammonia vapours in case of Plant up set condition. No Ammonia is vented through stacks. Adequate provisions have been made to keep the ammonia vapours in liquidified state by way of refrigeration both at Ammonia Plant and Ammonia storage area. In case all the back up refrigeration system fails, however the possibility of which is zero, one 40m high flare stack has been provided to flare excess ammonia into the atmosphere without any harm.
8.	The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries.	We have already implemented the recommendations made in the charter on corporate Responsibility for Environment Protection (CREP) which are applicable to IFFCO Phulpur unit.
9.	The company shall develop rainwater harvesting structures to harvest the runoff water from the roof tops and by laying a separate storm water drainage system for recharge of ground water.	Rainwater harvesting structures to harvest the runoff water from the roof tops have been constructed and schemes implemented at various locations in township i.e. (i) Central School building in township. (ii) Guest House (iii) Residential buildings and open area of Township at three locations. (iv) Near CISF Barrack.
10	Green belt already developed in 33% shall be properly maintained and an effort shall be made to further increase the percentage by regularly planting trees at all the vacant spaces to mitigate the effects of fugitive emissions all around the plant. Further development of the green belt shall be as per the Central Pollution Control Board guidelines. Density of trees at the site shall be maintained as 2,000-2, 500 trees/ha.	The green belt already developed is being maintained. During the last six months grass cutting, irrigation & maint. of green belt has been done. Native plant species have been planted in consultation of DFO Prayagraj to develop green belt in & around factory, township and CORDET. 35625 no. of saplings have been planted, during April-2023 to March-2024. Area covered as percentage of total area owned by the industry: - 34.6%. Density of tree plantation is being maintained as per the guideline.

General Conditions:

Sr.No.	Conditions	Compliance Status
1.	The project authorities must strictly adhere to the stipulations made by the U.P. Pollution Control Board (UPPCB) and the State Government.	We strictly comply with the stipulations and guidelines made by the U.P. Pollution Control Board, Lucknow, and the state Govt.
2.	No further expansion / modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Proposal for Modernization of process of Nano Urea Plant for manufacturing of 4% to 20% concentration Nano Fertilizer with existing capacity of 36500 KLPA at IFFCO Phulpur, has been submitted to MOEF&CC.
3.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management & Handling) Rules, 2003.	We are strictly complying with the rules and regulations regarding handling and disposal of hazardous wastes prescribed under Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and their amendments i.e., Hazardous, and other wastes (Management and Transboundary Movement) Rules, 2016. The same will be ensured in future also.
4.	The project proponent shall also comply with all the safeguards recommended in the EIA/EMP Report.	We are complying with the entire safeguard recommended in EIA/EMP Report. The same will be ensured in future also.
5.	The project authorities will set up a separate environmental management cell for effective implementation of all the above stipulations under control of Senior executive.	Environment & Pollution Control (EPC) cell has already been constituted and functioning at IFFCO Phulpur in control of a senior Executive under Jt. General Manager.
6.	As proposed in EIA/EMP, Rs.60.50 Crores and Rs.9.00 Crores allocated towards capital cost and recurring expenditure/annum shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and a time bound implementation schedule for all the conditions stipulated herein shall be submitted. The funds provided shall not be diverted for any other purposes.	Total Rs. 60.59 Crores has already been spent on the installation of CDR Plant and other some environmental protection schemes as against Rs 60.5. Crores allocated towards capital cost in EIA / EMP. Recurring cost was Rs. 51.23 Crores for the period of Oct.2023 to March – 2024 as against Rs.9.00 Crores per annum allocated towards recurring cost in EIA/EMP.

7.	The Regional Office of this Ministry at Lucknow/Central Pollution Control Board/ U.P.Pollution Control Board will monitor the stipulated conditions. A six-monthly compliance status report and the monitored data along with statistical interpretation shall be submitted to monitoring agencies regularly.	Compliance progress report along with monitored data is being submitted to monitoring agencies.
8.	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 U.P.Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should 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 Regional Office at Lucknow.	We have submitted the copy of the Environment clearance letter to member Secretary U.P. Pollution Control Board Lucknow and R.O. Regional Office, U.P. Pollution Control Board Prayagraj. An advertisement regarding environmental clearance has already been published in two local newspapers viz. Dainik Jagaran in Hindi (local language) & Hindustan Times in English language.
9.	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 commencing the land development work, if any.	This project has been implemented within the existing premises of IFFCO Phulpur unit and no additional land acquisition and development was required. LNG Conversion Project completion date: July 2006 & Capacity Enhancement Project completion date : December 2008.



Prakriti Consultants Services

Category 'A' QCI-NABET Accredited EIA Consultant Organization
An Approved Laboratory From MoEF - CC & Uttar Pradesh Pollution Control Board
(An ISO 14001:2015, ISO 9001:2015 and ISO 45001:2018 Certified Organization)
Address: 12, Vishnuhari, Church Road, Aliganj, Lucknow-226024
E-mail: prakriti_md@rediffmail.com, prakriticonsultantservices@gmail.com
Tel: 0522-4002545, Mobile: 09415518818,
GSTIN :- 09AAJPP5925G1ZY



Test Report for Stack Monitoring

ULR- TC824124000000579

Report No.		Reference No.		Issue Date
PCS/SE/01/2024		PCS/IFFCO/01/2024		09/04/2024
1. Name & address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj		
2. Type of Industry		Fertilizer Industry	7. Method of Sampling	PCS/WI/SAMP/20
3. Sample collected by		Mr. Vipin & Mr. Sunil	8. Date of sampling	01/04/2024-02/04/2024
4. Weather Condition		Clear Sky	9. Sample receipt in lab	03/04/2024
5. Sampling Location		Urea-1	10. Date of Analysis	03/04/2024-05/04/2024
6. Lab Code		PCS24/27/372	11. Sample Analyzed By	Mr. Ajay
S. No.	Particulars		Value	
1	Duct Attached to		Urea-1 (Prilling Tower)	
2	Type of Stack		Circular	
3	Stack height from Ground (m)		96	
4	Material of Construction of duct		RCC	
5	Sampling port height from Ground(m)		96	
6	Type of fuel used		NA	
7	Sampling Duration (min)		85	
8	Atmospheric Pressure (mmHg)		740	
9	Atmospheric temperature (^o K)		309	
10	Flue Gas temperature (^o K)		325	
11	Flue Gas Velocity (m/s)		2.88	
12	Flue Gas Exit Volume (Lit)		1020.0	
	Pollutants	Reference Method	Result	Standard*
	PM (mg/Nm ³)	IS 11255 PART-1:1985	44.3	-
	NH ₃ (mg/Nm ³)	IS 11255 PART-6	35.2	-

*BHL = Below Detection Limit

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Authorized Signatory


(Dr. Divya Misra)
Managing Director

"End of this Test Report"

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Services Available:

Environmental Monitoring, Preparation of EIA/EMP, Remedial Investigation for Air, Water, Soil, Noise & Socio-economy
Environmental and Safety Audit reports, Commissioning, Operation, Optimization and Maintenance of STP & Effluent Treatment
Ground Water Borehole Installation of EIA, SDC from 1999 to 2024



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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024
E-mail: prakriti_md@rediffmail.com, prakriticonsultantservices@gmail.com
Tel: 0522- 4002145, Mobile: 09415518818,
GSTIN - 09AASJP5925G1ZV

Test Report for Stack Monitoring



ULR- TC824124000000580

Report No.		Reference No.		Issue Date
PCS/SE/01/2024		PCS/IFFCO/01/2024		09/04/2024
1. Name & address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj		
2. Type of Industry		Fertilizer Industry	7. Method of Sampling	PCS/WI/SAMP/20
3. Sample collected by		Mr. Vipin & Mr. Sunil	8. Date of sampling	01/04/2024-02/04/2024
4. Weather Condition		Clear Sky	9. Sample receipt in lab	03/04/2024
5. Sampling Location		Urea-2	10. Date of Analysis	03/04/2024-05/04/2024
6. Lab Code		PCS24/27/373	11. Sample Analyzed By	Mr. Ajay
S. No.	Particulars		Value	
1	Duct Attached to		Urea-2 (Prilling Tower)	
2	Type of Stack		Circular	
3	Stack height from Ground (m)		104	
4	Material of Construction of duct		RCC	
5	Sampling port height from Ground(m)		104	
6	Type of fuel used		NA	
7	Sampling Duration (min)		92	
8	Atmospheric Pressure (mmHg)		740	
9	Atmospheric temperature (°K)		309	
10	Flue Gas temperature (°K)		321	
11	Flue Gas Velocity (m/s)		2.69	
12	Flue Gas Exit Volume (Lit)		1012.0	
	Pollutants	Reference Method	Result	Standard*
	PM (mg/Nm³)	IS 11255 PART-1:1985	40.3	-
	NH ₃ (mg/Nm³)	IS 11255 PART-6	32.4	-

*BIM - Below Detection Limit

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Authorized Signatory

(Dr. Divya Misra)
Managing Director

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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024
E-mail: prakriti_nsd@rediffmail.com, prakriticonsultantservices@gmail.com
Tel: 0522- 4002545, Mobile: 09415518818,
GSTIN :- 09AAJFP5925G1ZY

Test Report for Stack Monitoring

ULR- TC824124000000578



Report No.		Reference No.		Issue Date
PCS/SE/04/2024		PCS/IFFCO/01/2024		09/04/2024
1. Name & address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj		
2. Type of Industry		Fertilizer Industry	7. Method of Sampling	PCS/WI/SAMP/20
3. Sample collected by		Mr. Vipin & Mr. Sunil	8. Date of sampling	01/04/2024-02/04/2024
4. Weather Condition		Clear Sky	9. Sample receipt in lab	03/04/2024
5. Sampling Location		Ammonia-2 (HRU)	10. Date of Analysis	03/04/2024-05/04/2024
6. Lab Code		PCS24/27/369	11. Sample Analyzed By	Mr. Ajay
S. No.	Particulars		Value	
1.	Duct Attached to		Ammonia-2 (HRU)	
2.	Type of Stack		Circular	
3.	Stack height from Ground (m)		30	
4.	Material of Construction of duct		M.S.	
5.	Normal Operating hour		As per requirement	
6.	Type of fuel used		LNG	
7.	Sampling Duration		40	
8.	Atmospheric Pressure (mmHg)		740	
9.	Atmospheric temperature (^o K)		307	
10.	Flue Gas temperature (^o K)		382	
11.	Flue Gas Velocity (m/s)		6.87	
	Pollutants	Reference Method	Result	Standard*
	PM (mg/Nm ³)	IS 11255 PART-1:1985	8.7	-
	SO ₂ (mg/Nm3)	IS 11255 PART-2:1985	<1.0	-
	NOx (mg/Nm ³)	PCS/SOP/ST/NOx/12:2021	58.0	-

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(Dr. Divya Misra)
Managing Director

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Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology,
Environmental and Safety Audit reports, Consulting, Erection, Operation and Maintenance of STPA/DP, Clearance from
Ground Water Board, Compliance of E.C., NGC from UPPCR, MoEF



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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024
E-mail: prakriti_mail@rediffmail.com, prakriticonsultantservices@gmail.com
Tel: 0522-4002545, Mobile: 09415518818,
GSTIN -> 09AAJFP5925G1ZY

Test Report for Stack Monitoring



ULR- TC824124000000577

Report No.		Reference No.		Issue Date	
PCS/SE/03/2024		PCS/IFFCO/01/2024		09/04/2024	
1.Name & address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2. Type of Industry		Fertilizer Industry	7. Method of Sampling	PCS/WI/SAMP/20	
3. Sample collected by		Mr. Vipin & Mr. Sunil	8. Date of sampling	01/04/2024-02/04/2024	
4. Weather Condition		Clear Sky	9. Sample receipt in lab	03/04/2024	
5. Sampling Location		Ammonia-1 (GT-HRSG)	10. Date of Analysis	03/04/2024-05/04/2024	
6. Lab Code		PCS24/27/368	11. Sample Analyzed By	Mr. Ajay	
S. No.	Particulars		Value		
1.	Duct Attached to		Ammonia-1 (GT-HRSG)		
2.	Type of Stack		Circular		
3.	Stack height from Ground (m)		30		
4.	Material of Construction of duct		M.S.		
5.	Normal Operating hour		As per requirement		
6.	Type of fuel used		LNG		
7.	Sampling Duration		40		
8.	Atmospheric Pressure (mmHg)		740		
9.	Atmospheric temperature (°K)		307		
10.	Flue Gas temperature (°K)		390		
11.	Flue Gas Velocity (m/s)		8.14		
	Pollutants	Reference Method	Result	Standard*	
	PM (mg/Nm ³)	IS 11255 PART-1:1985	8.2	-	
	SO ₂ (mg/Nm3)	IS 11255 PART-2:1985	<1.0	-	
	NOx (mg/Nm ³)	PCS/SOP/ST/NOx/12:2021	22.0	-	

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5. No deviation as per the Standard Method.

Authorized Signatory


(Dr. Divya Misra)
Managing Director

"End of this Test Report"

Page 1 of 1

Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Microbiology
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Cleanliness from
Ground Water Bored, Compliance of E.C., S.O.I from F.P.P.R. Mod 1



Prakriti Consultants Services

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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024
E-mail: prakriti_mdt@rediffmail.com, prakriticonsultantservices@gmail.com
Tel: 0522-4002545, Mobile: 09415518818,
GSTIN :- 09AAJPP5925G12Y



Test Report for Stack Monitoring

ULR- TC824124000000575

Report No.		Reference No.		Issue Date	
PCS/SE/01/2024		PCS/IFFCO/01/2024		09/04/2024	
1. Name & address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2. Type of Industry		Fertilizer Industry	7. Method of Sampling	PCS/WI/SAMP/20	
3. Sample collected by		Mr. Vipin & Mr. Sunil	8. Date of sampling	01/04/2024-02/04/2024	
4. Weather Condition		Clear Sky	9. Sample receipt in lab	03/04/2024	
5. Sampling Location		Ammonia-1 Primary reformer	10. Date of Analysis	03/04/2024-05/04/2024	
6. Lab Code		PCS24/27/370	11. Sample Analyzed By	Mr. Ajay	
S. No.	Particulars		Value		
1	Duct Attached to		Ammonia-1 Primary reformer		
2	Type of Stack		Circular		
3	Stack height from Ground (m)		33		
4	Material of Construction of duct		M.S.		
5	Normal Operating hour		As per requirement		
6	Type of fuel used		LNG		
7	Sampling Duration		30		
8	Atmospheric Pressure (mmHg)		740		
	Pollutants	Reference Method	Result	Standard*	
	PM (mg/Nm ³)	IS 11255 PART-1:1985	8.9	-	
	SO ₂ (mg/Nm ³)	IS 11255 PART-2:1985	<1.0	-	
	NO _x (mg/Nm ³)	PCS/SOP/ST/NO _x /12:2021	138	-	

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Authorized Signatory


(Dr. Divya Misra)
Managing Director

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Page 1 of 1

Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Microclimate
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearance from
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GSTIN - 09AAJFP5925G1ZY

Test Report for Stack Monitoring

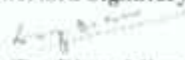
ULR-TC824124000000576



Report No.		Reference No.		Issue Date
PCS/SE/02/2024		PCS/IFFCO/01/2024		09/04/2024
1.Name & address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj		
2. Type of Industry		Fertilizer Industry	7. Method of Sampling	PCS/WI/SAMP/20
3. Sample collected by		Mr. Vipin & Mr. Sunil	8. Date of sampling	01/04/2024-02/04/2024
4. Weather Condition		Clear Sky	9. Sample receipt in lab	03/04/2024
5. Sampling Location		Ammonia-2 Primary reformer	10. Date of Analysis	03/04/2024-05/04/2024
6. Lab Code		PCS24/27/371	11. Sample Analyzed By	Mr. Ajay
S. No.	Particulars		Value	
1	Duct Attached to		Ammonia-2 Primary reformer	
2	Type of Stack		Circular	
3	Stack height from Ground (m)		33	
4	Material of Construction of duct		M.S.	
5	Normal Operating hour		As per requirement	
6	Type of fuel used		LNG	
7	Sampling Duration		30	
8	Atmospheric Pressure (mmHg)		740	
	Pollutants	Reference Method	Result	Standard*
	PM (mg/Nm ³)	IS 11255 PART-1:1985	9.4	-
	SO ₂ (mg/Nm ³)	IS 11255 PART-2:1985	<1.0	-
	NO _x (mg/Nm ³)	PCS/SOP/ST/NO _x /12-2021	132	-

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Authorized Signatory


(Dr. Divya Misra)
Managing Director

"End of this Test Report"

Page 1 of 1

Services Available:

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/TP, Effluents from
Ground Water Board, Compliance of E.I.C. SOC from UPPR, MoEF

Test Report for Ambient Air Quality					
ULR- TC824124000000571					
Report No. PCS/AAQ/05/2024		Reference No. PCS/IFFCO/01/2024		Issue Date 09/04/2024	
1. Name & Address of Industry:		M/s. Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2. Type of Industry:		Fertilizer industry		7. Method of Sampling:	
3. Sampling Location:		Kendriya Vidyalaya		8. Date of Monitoring :	
4. Monitoring done by:		Mr. Vipin, & Mr. Sunil		9. Sample Receipt in Lab:	
5. Weather Condition :		Clear Sky		10. Date of Analysis:	
6. Lab Code:		PCS24/27/367		11. Sample Analyzed By:	
Mr. Ajay					
Sl.No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM ₁₀)	(µg/ m ³)	IS: 5182 Part (23)	54	100
2	Particulate Matter (PM _{2.5})	(µg/ m ³)	IS 5182 (Part-24)	34	60
3	Sulphur Dioxide (SO ₂)	(µg/ m ³)	IS : 5182 (Part-2)	15.2	80
4	Nitrogen Dioxide (NO ₂)	(µg/ m ³)	IS: 5182 (Part 6)	20.6	80
5	Ammonia(NH ₃)	(µg/ m ³)	IS: 5182 (Part-25)	24.8	400

*NAAQS CPCB Notification, dated 18.11.2009

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Authorized Signatory

(Signature)

(Dr. Divya Misra)
Managing Director

"End of this Test Report"

Test Report for Ambient Air Quality

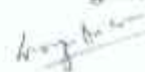
Report No. PCS/AAQ/05/2024		Reference No. PCS/IFFCO/01/2024		Issue Date 09/04/2024	
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2.Type of Industry:		Fertilizer industry	7.Method of Sampling:	PCS/WI/SAMP/20	
3.Sampling Location:		Kendriya Vidyalaya	8.Date of Monitoring :	01/04/2024-02/04/2024	
4. Monitoring done by:		Mr. Vipin,& Mr.Sunil	9.Sample Receipt in Lab:	03/04/2024	
5. Weather Condition :		Clear Sky	10.Date of Analysis:	03/04/2024 – 05/04/2024	
6.Lab Code:		PCS24/27/367	11.Sample Analyzed By:	Mr. Ajay	
Sl. No.	Parameters	Unit	Reference Method	Result	Standards*
1	Urea	($\mu\text{g}/\text{m}^3$)	Micro Kjeldahl Method	21.7	-
2	HC	($\mu\text{g}/\text{m}^3$)	GC FID	ND*	-

*NAAQS CPCB Notification, dated 18.11.2009

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Authorized Signatory



(Dr. Divya Misra)
Managing Director

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Test Report for Ambient Air Quality					
ULR- TC824124000000569					
Report No. PCS/AAQ/03/2024		Reference No. PCS/IFFCO/01/2024		Issue Date 09/04/2024	
1. Name & Address of Industry: M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj					
2. Type of Industry: 3. Sampling Location: 4. Monitoring done by: 5. Weather Condition : 6. Lab Code:		Fertilizer industry Near CORDET Mr. Vipin, & Mr. Sunil Clear Sky PCS24/27/365		7. Method of Sampling: 8. Date of Monitoring : 9. Sample Receipt in Lab: 10. Date of Analysis: 11. Sample Analyzed By:	
				PCS/WI/SAMP/20 01/04/2024-02/04/2024 03/04/2024 03/04/2024 – 05/04/2024 Mr. Ajay	
Sl. No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM ₁₀)	(µg/m ³)	IS: 5182 Part (23)	56	100
2	Particulate Matter (PM _{2.5})	(µg/m ³)	IS 5182 (Part-24)	35	60
3	Sulphur Dioxide (SO ₂)	(µg/m ³)	IS : 5182 (Part-2)	11.8	80
4	Nitrogen Dioxide (NO ₂)	(µg/m ³)	IS: 5182 (Part 6)	17.8	80
5	Ammonia(NH ₃)	(µg/m ³)	IS: 5182 (Part-25)	29.0	400

*NAAQS CPCB Notification, dated 18.11.2009

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Authorized Signatory

(Dr. Divya Misra)
Managing Director

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Page 1 of 2

Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Effluents from
Ground Water Board, Compliance of E.C., NOC from UP PCB, MoEF

Test Report for Ambient Air Quality

Report No.		Reference No.		Issue Date	
PCS/AAQ/04/2024		PCS/IFFCO/01/2024		09/04/2024	
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2.Type of Industry:		Fertilizer industry	7.Method of Sampling:		PCS/WI/SAMP/20
3.Sampling Location:		Gate No. 4	8.Date of Monitoring :		01/04/2024-02/04/2024
4. Monitoring done by:		Mr. Vipin,& Mr.Sunil	9.Sample Receipt in Lab:		03/04/2024
5. Weather Condition :		Clear Sky	10.Date of Analysis:		03/04/2024 – 05/04/2024
6.Lab Code:		PCS24/27/366	11.Sample Analyzed By:		Mr. Ajay
Sl. No.	Parameters	Unit	Reference Method	Result	Standards*
1	Urea	(µg/ m ³)	Micro Kjeldahl Method	23.4	-
2	HC	(µg/ m ³)	GC FID	ND*	-

*NAAQS CPCB Notification, dated 18.11.2009

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Authorized Signatory

(Signature)
(Dr. Divya Misra)
Managing Director

"End of this Test Report"

Test Report for Ambient Air Quality					
ULR- TC824124000000568					
Report No. PCS/AAQ/02/2024		Reference No. PCS/IFFCO/01/2024		Issue Date 09/04/2024	
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2. Type of Industry:		Fertilizer industry		7. Method of Sampling:	
3. Sampling Location:		Behind R.O Plant		PCS/WI/SAMP/20	
4. Monitoring done by:		Mr. Vipin, & Mr. Sunil		8. Date of Monitoring :	
5. Weather Condition :		Clear Sky		9. Sample Receipt in Lab:	
6. Lab Code:		PCS24/27/364		10. Date of Analysis:	
				03/04/2024 – 05/04/2024	
				11. Sample Analyzed By:	
				Mr. Ajay	
Sl. No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM ₁₀)	(µg/m ³)	IS: 5182 Part (23)	57	100
2	Particulate Matter (PM _{2.5})	(µg/m ³)	IS 5182 (Part-24)	36	60
3	Sulphur Dioxide (SO ₂)	(µg/m ³)	IS : 5182 (Part-2)	10.4	80
4	Nitrogen Dioxide (NO ₂)	(µg/m ³)	IS: 5182 (Part 6)	20.8	80
5	Ammonia(NH ₃)	(µg/m ³)	IS: 5182 (Part-25)	23.1	400

*NAAQS CPCB Notification, dated 18.11.2009

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Managing Director

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GSTIN :- 09AAJFF5925G1ZV

Test Report for Ambient Air Quality

Report No. PCS/AAQ/03/2024		Reference No. PCS/IFFCO/01/2024		Issue Date 09/04/2024	
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2.Type of Industry:		Fertilizer industry	7.Method of Sampling:	PCS/WI/SAMP/20	
3.Sampling Location:		Near CORDET	8.Date of Monitoring :	01/04/2024-02/04/2024	
4. Monitoring done by:		Mr. Vipin,& Mr.Sunil	9.Sample Receipt in Lab:	03/04/2024	
5. Weather Condition :		Clear Sky	10.Date of Analysis:	03/04/2024 – 05/04/2024	
6.Lab Code:		PCS24/27/365	11.Sample Analyzed By:	Mr. Ajay	
Sl. No.	Parameters	Unit	Reference Method	Result	Standards*
1	Urea	(µg/ m ³)	Micro Kjeldahl Method	21.5	-
2	HC	(µg/ m ³)	GC FID	ND*	-

*NAAQS CPCB Notification, dated 18.11.2009

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Managing Director

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Services Available

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Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearances from
Ground Water Board, Compliance of E.C., NOC from ETPCB, MoEF

Test Report for Ambient Air Quality

ULR- TC824124000000568



Report No.
PCS/AAQ/02/2024

Reference No.
PCS/IFFCO/01/2024

Issue Date
09/04/2024

1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2. Type of Industry:	Fertilizer industry	7. Method of Sampling:	PCS/WI/SAMP/20		
3. Sampling Location:	Behind R.O Plant	8. Date of Monitoring :	01/04/2024-02/04/2024		
4. Monitoring done by:	Mr. Vipin, & Mr. Sunil	9. Sample Receipt in Lab:	03/04/2024		
5. Weather Condition :	Clear Sky	10. Date of Analysis:	03/04/2024 – 05/04/2024		
6. Lab Code:	PCS24/27/364	11. Sample Analyzed By:	Mr. Ajay		
Sl. No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM ₁₀)	($\mu\text{g}/\text{m}^3$)	IS: 5182 Part (23)	57	100
2	Particulate Matter (PM _{2.5})	($\mu\text{g}/\text{m}^3$)	IS 5182 (Part-24)	36	60
3	Sulphur Dioxide (SO ₂)	($\mu\text{g}/\text{m}^3$)	IS : 5182 (Part-2)	10.4	80
4	Nitrogen Dioxide (NO ₂)	($\mu\text{g}/\text{m}^3$)	IS: 5182 (Part 6)	20.8	80
5	Ammonia(NH ₃)	($\mu\text{g}/\text{m}^3$)	IS: 5182 (Part-25)	23.1	400

*NAAQS CPCB Notification, dated 18.11.2009

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Tel: 0522- 4002545, Mobile: 09415518818,
GSTIN :- 09AAJFP5925G1ZY

Test Report for Ambient Air Quality

Report No.		Reference No.		Issue Date	
PCS/AAQ/02/2024		PCS/IFFCO/01/2024		09/04/2024	
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2.Type of Industry:		Fertilizer industry		7.Method of Sampling:	
3.Sampling Location:		Behind R.O Plant		PCS/WI/SAMP/20	
4. Monitoring done by:		Mr. Vipin,& Mr.Sunil		8.Date of Monitoring :	
5. Weather Condition :		Clear Sky		01/04/2024-02/04/2024	
6.Lab Code:		PCS24/27/364		9.Sample Receipt in Lab:	
				03/04/2024	
				10.Date of Analysis:	
				03/04/2024 – 05/04/2024	
				11.Sample Analyzed By:	
				Mr. Ajay	
SL No.	Parameters	Unit	Reference Method	Result	Standards*
1	Urea	(µg/ m ³)	Micro Kjeldahl Method	22.5	-
2	HC	(µg/ m ³)	GC FID	ND*	-

*NAAQS CPCB Notification, dated 18.11.2009

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Managing Director

"End of this Test Report"

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E-mail: prakriti_md@rediffmail.com, prakriticonsultantservices@gmail.com
Tel: 0522- 4002545, Mobile: 09415518818,
GSTIN :- 09AAJFP3925G12Y

Test Report for Ambient Air Quality

Report No. PCS/AAQ/01/2024		Reference No. PCS/IFFCO/01/2024		Issue Date 09/04/2024	
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2.Type of Industry:		Fertilizer industry	7.Method of Sampling:	PCS/WI/SAMP/20	
3.Sampling Location:		Near Railway Gate	8.Date of Monitoring :	01/04/2024-02/04/2024	
4. Monitoring done by:		Mr. Vipin,& Mr.Sunil	9.Sample Receipt in Lab:	03/04/2024	
5. Weather Condition :		Clear Sky	10.Date of Analysis:	03/04/2024 – 05/04/2024	
6.Lab Code:		PCS24/27/363	11.Sample Analyzed By:	Mr. Ajay	
Sl. No.	Parameters	Unit	Reference Method	Result	Standards*
1	Urea	(µg/ m ³)	Micro Kjeldahl Method	22.0	-
2	HC	(µg/ m ³)	GC FID	ND*	-

*NAAQS CPCB Notification, dated 18.11.2009

Note:

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5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divya Misra)
Managing Director

"End of this Test Report"

Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearances from
Ground Water Board, Compliance of E.C., NOC from UPPCR, MoEF

ULR- TC824124000000567

Test Report for Ambient Air Quality



Report No.
PCS/AAQ/01/2024

Reference No.
PCS/IFFCO/01/2024

Issue Date
09/04/2024

1. Name & Address of Industry:	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj		
2.Type of Industry:	Fertilizer industry	7.Method of Sampling:	PCS/WI/SAMP/20
3.Sampling Location:	Near Railway Gate	8.Date of Monitoring :	01/04/2024-02/04/2024
4. Monitoring done by:	Mr. Vipin,& Mr.Sunil	9.Sample Receipt in Lab:	03/04/2024
5. Weather Condition :	Clear Sky	10.Date of Analysis:	03/04/2024 – 05/04/2024
6.Lab Code:	PCS24/27/363	11.Sample Analyzed By:	Mr. Ajay

Sl. No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM ₁₀)	(µg/ m ³)	IS: 5182 Part (23)	55	100
2	Particulate Matter (PM _{2.5})	(µg/ m ³)	IS 5182 (Part-24)	35	60
3	Sulphur Dioxide (SO ₂)	(µg/ m ³)	IS : 5182 (Part-2)	11.9	80
4	Nitrogen Dioxide (NO ₂)	(µg/ m ³)	IS: 5182 (Part 6)	22.4	80
5	Ammonia(NH ₃)	(µg/ m ³)	IS: 5182 (Part-25)	28.7	400

*NAAQS CPCB Notification, dated 18.11.2009

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Authorized Signatory

(Dr. Divya Misra)
Managing Director

"End of this Test Report"

Page 1 of 2

Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Microclimate
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearance from
Ground Water Board, Compliance of E.C., NOC from UPPCB, MoEF



Stack Emission Data and Analytical Results

ULR- TC824124000000572

Report No.		Reference No.		Issue Date
PCS/SE/01/2024		PCS/IFFCO/01/2024		09/04/2024
1. Name & address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj		
2. Type of Industry		Fertilizer Industry	7. Method of Sampling	PCS/WI/SAMP/20
3. Sample collected by		Mr. Vipin & Mr. Sunil	8. Date of sampling	01/04/2024-02/04/2024
4. Weather Condition		Clear Sky	9. Sample receipt in lab	03/04/2024
5. Sampling Location		Boiler No- 1	10. Date of Analysis	03/04/2024-05/04/2024
6. Lab Code		PCS24/27/374	11. Sample Analyzed By	Mr. Ajay
S. No.	Particulars	Value		
1	Duct Attached to	Boiler No-1		
2	Type of Stack	Circular		
3	Stack height from Ground (m)	100		
4	Type of Duct	Rectangular		
5	Material of Construction of duct	RCC		
6	Sampling port height from Ground(m)	12.4		
7	Type of fuel used	Coal		
8	Sampling Duration (min)	60		
9	Atmospheric Pressure (mmHg)	740		
10	Atmospheric temperature (^o K)	307		
11	Flue Gas temperature (^o K)	410		
12	Flue Gas Velocity (m/s)	12.5		
13	Flue Gas Exit Volume (Lit)	1080.0		
	Pollutants	Reference Method	Result	Standard*
	PM (mg/Nm ³)	IS 11255 PART-1:1985	28.6	-
	SO ₂ (mg/Nm ³)	IS 11255 PART-2:1985	296.0	-
	NO _x (mg/Nm ³)	PCS/SOP/ST/NO _x /12:2021	225.0	-
	Hg(mg/Nm ³)	PCS/SOP/ST/08:2021	*BDL	-

*BDL= Below Detection Limit

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Authorized Signatory


(Dr. Divya Misra)
Managing Director

"End of this Test Report"

Page 1 of 1



Prakriti Consultants Services

Category 'A' QCI-NABET Accredited EIA Consultant Organization
An Approved Laboratory From MoEF - CC & Uttar Pradesh Pollution Control Board
(An ISO 14001:2015, ISO 9001:2015 and ISO 45001:2018 Certified Organization)
Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024
E-mail: prakriti_md@rediffmail.com, prakriticonsultantservices@gmail.com
Tel: 0522-4002545, Mobile: 09415518818,
GSTIN :- 09AAJFP5925G1ZV



Stack Emission Data and Analytical Results

ULR- TC824124000000573

Report No.		Reference No.		Issue Date
PCS/SE/01/2024		PCS/IFFCO/01/2024		09/04/2024
1.Name & address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj		
2. Type of Industry		Fertilizer Industry	7. Method of Sampling	PCS/WI/SAMP/20
3. Sample collected by		Mr. Vipin & Mr. Sunil	8. Date of sampling	01/04/2024-02/04/2024
4. Weather Condition		Clear Sky	9. Sample receipt in lab	03/04/2024
5. Sampling Location		Boiler No- 3	10. Date of Analysis	03/04/2024-05/04/2024
6. Lab Code		PCS24/27/375	11. Sample Analyzed By	Mr. Ajay
S. No.	Particulars		Value	
1	Duct Attached to		Boiler No-3	
2	Type of Stack		Circular	
3	Stack height from Ground (m)		100	
4	Type of Duct		Rectangular	
5	Material of Construction of duct		RCC	
6	Sampling port height from Ground(m)		12.4	
7	Type of fuel used		Coal	
8	Sampling Duration (min)		65	
9	Atmospheric Pressure (mmHg)		740	
10	Atmospheric temperature (°K)		307	
11	Flue Gas temperature (°K)		395	
12	Flue Gas Velocity (m/s)		11.3	
13	Flue Gas Exit Volume (Lit)		1020.0	
	Pollutants	Reference Method	Result	Standard*
	PM (mg/Nm ³)	IS 11255 PART-1:1985	87	-
	SO ₂ (mg/Nm3)	IS 11255 PART-2:1985	304.0	-
	NOx (mg/Nm ³)	PCS/SOP/ST/NOx/12:2021	235.0	-
	Hg(mg/Nm ³)	PCS/SOP/ST/08:2021	*BDL	-

*BDL= Below Detection Limit

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5. No deviation as per the Standard Method.

Authorized Signatory


(Dr. Divya Misra)
Managing Director

"End of this Test Report"

Page 1 of 1

Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Microclimate
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Treatment from
Ground Water Based, Compliance of E.C., NOC from UP/PCB, MoEF

Test Report for Noise Monitoring

ULR- TC824124000000574



Report No.
PCS/NQ/01-13/2024

Reference No.
PCS/IFFCO/01/2024

Issue Date
09/04/2024

1. Name of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj		
2. Type of Industry	Fertilizer Industry	7. Method of Sampling	PCS/WI/SAMP/20
3. Sampling Location	S. No. 1-13	8. Date of Monitoring	01/04/2024-02/04/2024
4. Monitoring done by	Mr. Vipin & Mr. Sunil	9. Sample Receipt in Lab	03/04/2024
5. Weather Condition	Clear Sky	10. Date of Analysis	-
6. Lab Code	PCS24/27/376-387	11. Sample Analyzed By	Mr. Vipin

Reference Method: IS-9989, 1981		
S. No.	Location	Noise dB(A)
1	Urea-1 Control Room	54.7
2	Ammonia-1 Control Room	55.2
3	I.G. (Plant-1) Control Room	57.8
4	31 Compressor Control Room	61.4
5	41 Compressor Control Room	62.9
6	Compressor Control Room of Ammonia II	60.4
7	Air Compressor (K.T.I-2) Control Room	63.1
8	Power Plant Control Room	61.8
9	Time Office	55.2
10	Railway Gate	52.7
11	Ammonia Storage Tank	55.4
12	Behind R.O Plant	50.9
13	Guard Pond	56.2
* Standard (Noise)		
Industrial area		75
Commercial area		65
Residential area		55
Silence Zone		50

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Authorized Signatory

(Dr. Divya Misra)
Managing Director

"End of this Test Report"



Prakriti Consultants Services

An Approved Laboratory From MoEF - CC & Uttar Pradesh Pollution Control Board
(An ISO 14001:2015, ISO 9001:2015 and ISO 45001:2018 Certified Organization)

Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024

E-mail: prakriti_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP3925G1ZV

Test Report of Effluent Water (Guard Pond Inlet)



ULR- TC824124000000636

Report No.
PCS/WWQ/01/2024

Reference No.
PCS/IFFCO/01/2024

Issue Date
19/04/2024

1. Name & address of Industry: M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad U.P.

2. Type of Industry: Fertilizer
3. Sampling Location: Guard Pond Inlet
4. Sampling Done by: Mr Vipin & Mr Sunil
5. Weather Condition: Clear Sky
6. Lab Code: PCS24/70/424

7. Method of Sampling: As per Standard Method
8. Date of Sampling: 02/04/2024
9. Sample Received in Lab: 03/04/2024
10. Date of Testing: 03/04/2024 - 06/04/2024
11. Analyzed by: Ms Alka Singh

S. N	Parameters	Unit	Reference Method 23 rd Edition	Results
1.	pH	-	APHA 4500H+-B	6.90
2.	Temperature	°C	APHA 2550 B	30
3.	Color	Hazen	APHA 2120B	10.0
4.	Odour	-	APHA 2150B	Odourless
5.	TDS	mg/l	APHA 2540C	2040
6.	TSS	mg/l	APHA 2540D	42.0
7.	Chloride as Cl ⁻	mg/l	APHA 4500-Cl-B	1026
8.	COD	mg/l	APHA 5220-C	52.0
9.	BOD (3 Days at 27°C)	mg/l	IS 3025 (Part 44)	24.0
10.	Total Ammonical Nitrogen as N	mg/l	APHA 4500 NH ₃ -C	26.9
11.	Total Kjeldahl Nitrogen as N	mg/l	APHA 4500 Norg-B	37.5
12.	Free Ammonia as N	mg/l	APHA 4500 NH ₃ -C	0.28
13.	Phosphate as P	mg/l	APHA 4500 P-D	1.07
14.	Nitrate as N	mg/l	APHA 4500-NO ₃ -B	2.26
15.	Fluoride as F	mg/l	APHA 4500 F-D	1.01
16.	Total Residual Chlorine	mg/l	APHA 4500 Cl-B	<0.1
17.	Oil & Grease	mg/l	APHA 5200 B	<2.0
18.	Zinc as Zn	mg/l	APHA 3111 B	0.081
19.	Total Chromium as Cr	mg/l	APHA 3111-B	<0.05

**Standard as per Schedule VI issued by Rule 2(a) of the Environment (Protection) Second Amendment Rules, 1991 notified vide G.S.R. 422(0) dated 18.05.1993, published in the Gazette No. 134 dated 19.05.1993.

Note: 1. The results in the Test Report related only to the sample tested.

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5. No deviation as per the standard method.

Authorized Signatory

(Dr. Divya Misra)
Managing Director

"End of the Report"

Test Report of Effluent Water (Guard Pond Outlet)

ULR- TC824124000000637



Report No.
PCS/WWQ/02/2024

Reference No.
PCS/IFFCO/01/2024

Issue Date
19/04/2024

1. Name & address of Industry:

M/s Indian Farmer's Fertilizer Cooperative Limited Phulpur Unit, Allahabad UP

2. Type of Industry:

Fertilizer

3. Sampling Location:

Guard Pond Outlet

4. Sampling Done by:

Mr Vipin & Mr Sunil

5. Weather Condition :

Clear Sky

6. Lab Code:

PCS23/187/1209

7. Method of Sampling

As per Standard Method

8. Date of Sampling:

02/04/2024

9. Sample Received in Lab:

03/04/2024

10. Date of Testing :

03/04/2024 - 06/04/2024

11. Analyzed by:

MsAlka Singh

S. N	Parameters	Unit	Reference Method 23 rd Edition	Results	Standard*
1.	pH	-	APHA 4500H+-B	6.95	6.5 - 8.5
2.	Temperature	°C	APHA2550 B	30	-
3.	Color	Hazen	APHA 2120B	5.0	-
4.	Odour	-	APHA 2150B	Odourless	-
5.	TDS	mg/l	APHA 2540C	1920	-
6.	TSS	mg/l	APHA 2540D	31.0	100
7.	Chloride as Cl ⁻	mg/l	APHA4500-Cl-B	932	-
8.	COD	mg/l	APHA 5220-C	43.0	-
9.	BOD (3 Days at 27°C)	mg/l	IS 3025(Part 44)	19.0	-
10.	Total Ammonical Nitrogen as N	mg/l	APHA 4500 NH ₃ -C	22.1	50
11.	Total Kjeldahl Nitrogen as N	mg/l	APHA 4500 Norg-B	34.56	75
12.	Free Ammonia as N	mg/l	APHA 4500 NH ₃ -C	0.18	2.0
13.	Phosphate as P	mg/l	APHA 4500 P-D	0.58	-
14.	Nitrate as N	mg/l	APHA4500-NO ₃ -B	1.64	10.0
15.	Fluoride as F	mg/l	APHA 4500 F-D	0.77	2.0
16.	Total Residual Chlorine	mg/l	APHA 4500 Cl-B	<0.1	1.0
17.	Oil & Grease	mg/l	APHA 5200 B	<2.0	10
18.	Zinc as Zn	mg/l	APHA 3111 B	0.046	5.0
19.	Total Chromium as Cr	mg/l	APHA3111-B	<0.05	2.0

*Standard as per Schedule VI inserted by Rule 2(b) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(d) dated 18.05.1993, published in the Gazette No 134 dated 19.05.1993.

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5. No deviation as per the standard method.

Authorized Signatory

(Dr. Divya Misra)
Managing Director

"End of the Report"

Page 1 of 1

Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearances from
Ground Water Board, Compliance of E.C., NOC from UP PCB, MoEF

Test Report of Waste Water

ULR- TC824124000000634



Report No. PCS/WWQ/01/2024	Reference No. PCS/IFFCO/01/2024	Issue Date 19/04/2024
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1. Name & Address of Industry: M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad, UP			
2. Type of Industry	Fertilizer	8. Lab Code	PCS24/70/422
3. Sampling Location	STP Inlet	9. Date of Sampling	02/04/2024
4. Sample Collected by	Mr Vipin & Mr Sunil	10. Sample Receipt in Lab	03/04/2024
5. Analyzed by	Ms. Alka Singh	11. Date of Testing	03/04/2024 - 06/04/2024
6. Weather Condition	Clear Sky		
7. Method of Sampling	As per Standard Method		

S. No.	Parameter	Units	Reference Method	Results
1.	pH	-	APHA 4500H+ - B	8.30
2.	Total Suspended Solids (TSS)	mg/l	APHA 2540-D	64.0
3.	BOD (3days at 27°C)	mg/l	IS:3025 (Part 44) 1993 RA 2009	86.0

*Standard as per sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), Notified vide G.S.R. 1265 (E) dated 13.10.2017, published in the Gazette No. 843 dated 13.10.2017.

Note: 1. The results in the Test Report related only to the items tested.

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5. No deviation as per Standard Method.

Authorized Signatory

(Dr. Divya Misra)
Managing Director

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Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearances from
Ground Water Board, Compliance of E.C., NOC from UPPCR, MoEF

Test Report of Waste Water					
ULR- TC824124000000635					
Report No. PCS/WWQ/02/2024		Reference No. PCS/IFFCO/01/2024		Issue Date 19/04/2024	
1. Name & Address of Industry: M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.UP					
2. Type of Industry	Fertilizer	8. Lab Code	PCS24/70/421		
3. Sampling Location	STP Outlet	9. Date of Sampling	02/04/2024		
4. Sample Collected by	Mr Vipin & Mr Sunil	10. Sample Receipt in Lab	03/04/2024		
5. Analyzed by	Ms. Alka Singh	11. Date of Testing	03/04/2024 - 06/04/2024		
6. Weather Condition	Clear Sky				
7. Method of Sampling	As per Standard Method				
S. No.	Parameter	Units	Reference Method	Results	Standard*
1.	pH	-	APHA 4500H+ - B	7.95	6.5-9.0
2.	Total Suspended Solids (TSS)	mg/l	APHA 2540-D	16.0	100
3.	BOD (3days at 27°C)	mg/l	IS:3025 (Part 44) 1993 RA 2009	13.0	30

*Standard as per sections 5 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), Notified vide G.S.R. 1265 (E) dated 13.10.2017, published in the Gazette No. 843 dated 13.10.2017.

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5. No deviation as per Standard Method.

Authorized Signatory

(Dr. Divya Misra)
Managing Director

-----End of this Report-----

Test Report of Waste Water

Report No.		Reference No.		Issue Date	
PCS/WWQ/02(a)/2024		PCS/IFFCO/01/2024		19/04/2024	
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad UP			
2. Type of Industry	Fertilizer	8. Lab Code	PCS24/70/421		
3. Sampling Location	STP Outlet	9. Date of Sampling	02/04/2024		
4. Sample Collected by	Mr Vipin & Mr Sunil	10. Sample Receipt in Lab	03/04/2024		
5. Analyzed by	Ms. Ajay Kumar	11. Date of Testing	03/04/2024 - 06/04/2024		
6. Weather Condition	Clear Sky				
7. Method of Sampling	As per Standard Method				
S. No.	Parameter	Units	Reference Method	Results	Standard*
1	Faecal coliform	MPN/100	APHA 9221	350	<1000

*Standard as per sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), Notified vide G.S.R. 1265 (E) dated 13.10.2017, published in the Gazette No. 843 dated 13.10.2017.

Note: 1. The results in the Test Report related only to the items tested.

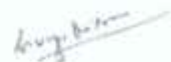
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5. No deviation as per Standard Method.

Authorized Signatory



(Dr. Divya Misra)
Managing Director

—End of this Report—

Test Report for Filter Raw Water

ULR- TC824124000000615



Report No.	Lab Reference No.	Issue Date
PCS/FRW/01/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling:	02/04/2024
4. Sampling Location	Filter Raw Water	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/420	12. Sample Analyzed By	Ms. Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.50	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1040	---	---
3.	Turbidity	NTU	APHA 2130 B	0.22	1	5
4.	TDS	mg/l	APHA 2540 C	620	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	326	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	405	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	58.3	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ E	67.5	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ E	1.83	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	61.3	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	43.2	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	108	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Dissolved Silica as (SiO ₂)	mg/l	APHA 4500-Si-C	28.09	-	-
15.	Colloidal Silica as (SiO ₂)	mg/l		<0.1	-	-

*As per APHA/AWWA: 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be inferred in the absence of an alternative source but up to the limits indicated under "permissible" limit in the absence of alternative source above which the source will have to be rejected.

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Authorized Signatory

(Dr. Divya Misra)
Managing Director

"End of this Test Report"

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Services Available:

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Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925GIZY

Test Report for Filter Raw Water

ULR- TC824124000000615



Report No. PCS/FRW/01/2024 Lab Reference No. PCS/FFCO/01/2024 Issue Date 19/04/2024

1. Name & Address of Industry M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad
2. Type of Industry Fertilizer
3. Sample Collected by Mr Vipin & Mr Sunil
4. Sampling Location Filter Raw Water
5. Weather Condition Clear Sky
6. Lab Code PCS24/70/420
7. Quantity of Sample 2 liter
8. Method of Sampling As per Standard Method
9. Date of sampling: 02/04/2024
10. Sample receipt in lab 03/04/2024
11. Date of Analysis 03/04/2024 - 06/04/2024
12. Sample Analyzed By Ms Alka Singh

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.50	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1040	---	---
3.	Turbidity	NTU	APHA 2130 B	0.22	1	5
4.	TDS	mg/l	APHA 2540 C	620	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	326	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	405	200	600
7.	Chloride as Cl	mg/l	APHA 4500-CLB	58.3	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ E	67.5	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ E	1.83	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	61.3	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	43.2	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	108	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Dissolved Silica as (SiO ₂)	mg/l	APHA 4500-Si-C	28.09	-	-
15.	Colloidal Silica as (SiO ₂)	mg/l		<0.1	-	-

*As per APHA/AWWA, 22nd Ed. (2012) ** NR- No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under "permissible" limit in the absence of alternative source above which the sources will have to be rejected.

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E-mail: prakriti_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJPP3925G12Y

Test Report for Borewell Water Quality

ULR- TC824124000000616



Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/01/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-1		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/402		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.45	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1250	---	---
3.	Turbidity	NTU	APHA 2130 B	0.23	1	5
4.	TDS	mg/l	APHA 2540 C	740	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	385	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	408	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	107	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	98.6	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.10	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	65.1	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	55.5	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	128	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	26.33	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.039	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Managing Director

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Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP592SG1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/01(a)/2023		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer	8. Method of Sampling		As per Standard Method	
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling		02/04/2024	
4. Sampling Location		Borewell-1	10. Sample receipt in lab		03/04/2024	
5. Weather Condition		Clear Sky	11. Date of Analysis		03/04/2024 - 06/04/2024	
6. Lab Code		PCS24/70/402	12. Sample Analyzed By		Ms Alka Singh	
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V,B	<0.02	-	-

*As per APHA/AWWA, 22nd Ed. (2012) **NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Ground Water Board, Compliance of E.C., NDC from UP PCB, MoEF

Test Report for Borewell Water Quality

ULR- TC824124000000617



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/02/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-2	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/403	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.55	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1180	---	---
3.	Turbidity	NTU	APHA 2130 B	0.25	1	5
4.	TDS	mg/l	APHA 2540 C	705	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	342	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	425	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	97.6	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	95.9	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.31	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	55.8	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	50.6	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	149	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	29.2	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.043	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rechecked.

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GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/02(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-2		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/403		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA, 22nd Ed. (2012) ** NR = No relaxation.

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Ground Water Board, Compliance of E.C., NDC from UP PCB, MoEF

Test Report for Borewell Water Quality

ULR- TC824124000000618



Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/03/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-3		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/404		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1190	---	---
3.	Turbidity	NTU	APHA 2130 B	0.31	1	5
4.	TDS	mg/l	APHA 2540 C	695	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	396	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	375	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	102	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	83.0	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.82	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	67.3	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	56.9	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	99.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	27.85	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.047	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA; 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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E-mail: prakriti_md@rediffmail.com

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GSTIN :- 09AAJFP5925G1ZV

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/03(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-3		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/404		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under "permissible" limit in the absence of alternative source above which the sources will have to be rejected.

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Test Report for Borewell Water Quality

ULR- TC82412400000619



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/04/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-4	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/405	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	930	---	---
3.	Turbidity	NTU	APHA 2130 B	0.29	1	5
4.	TDS	mg/l	APHA 2540 C	550	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	298	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	362	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	40.2	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	57.0	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	1.28	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	46.2	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	45.6	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	83.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	25.56	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.036	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Managing Director

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Address: 12, Vishuapuri, Church Road, Aliganj, Lucknow-226024

E-mail: prakriti_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/04(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-4		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/405		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
I.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA; 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Ground Water Board, Compliance of E.C., NDC from UPPCR, MoEF

Test Report for Borewell Water Quality

ULR- TC82412400000620



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/05/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-5	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/406	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	795	---	---
3.	Turbidity	NTU	APHA 2130 B	0.24	1	5
4.	TDS	mg/l	APHA 2540 C	472	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	280	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	392	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	11.5	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	29.4	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	1.54	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	44.2	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	42.3	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	74.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	30.46	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.045	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA: 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024

E-mail: prakriti_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/06(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-5		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/406		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA; 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024

E-mail: prakriti_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

ULR- TC824124000000621



Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/06/2024		PCS/IFFCO/01/2024			19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		As per Standard Method
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		02/04/2024
4. Sampling Location		Borewell-6		10. Sample receipt in lab		03/04/2024
5. Weather Condition		Clear Sky		11. Date of Analysis		03/04/2024 - 06/04/2024
6. Lab Code		PCS24/70/407		12. Sample Analyzed By		Ms Alka Singh
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.45	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	810	---	---
3.	Turbidity	NTU	APHA 2130 B	0.29	1	5
4.	TDS	mg/l	APHA 2540 C	480	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	298	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	391	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	15.3	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	29.8	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.18	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	50.9	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	44.9	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	69.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	30.8	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.048	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' under the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date	
PCS/BWQ/06(a)/2024		PCS/IFFCO/01/2024		19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.			
2. Type of Industry		Fertilizer	8. Method of Sampling		As per Standard Method
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling		02/04/2024
4. Sampling Location		Borewell-6	10. Sample receipt in lab		03/04/2024
5. Weather Condition		Clear Sky	11. Date of Analysis		03/04/2024 - 06/04/2024
6. Lab Code		PCS24/70/407	12. Sample Analyzed By		Ms Alka Singh
7. Quantity of Sample		2 liter			
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012
					Requirement (Acceptable limit)
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Ground Water Bored, Compliance of E.C., NOC from UP PCB, MoEF

Test Report for Borewell Water Quality

ULR- TC824124000000622



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/07/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-7	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/408	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.45	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	950	---	---
3.	Turbidity	NTU	APHA 2130 B	0.22	1	5
4.	TDS	mg/l	APHA 2540 C	560	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	315	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	418	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	22.97	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	54.57	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.31	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	53.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	45.60	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	91.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	29.4	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.046	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA; 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/07(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-7		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/408		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA: 22nd Ed. (2012) **NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024

E-mail: prakriti_mdo@rediffmail.com

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GSTIN - 09AAJFP3925G1ZY

Test Report for Borewell Water Quality

ULR- TC82412400000623



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/08/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-8	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/409	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	umhos/cm	APHA 2510-B	1090	---	---
3.	Turbidity	NTU	APHA 2130 B	0.28	1	5
4.	TDS	mg/l	APHA 2540 C	645	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	305	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	411	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	68.9	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	63.87	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	1.67	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	56.9	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	40.7	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	123.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	30.9	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.041	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

* As per APHA/AWWA: 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Authorized Signatory

(Dr. Divya Misra)
Managing Director

"End of this Test Report"

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Address: 12, Vishwapuri, Church Road, Aliganj, Lucknow-226024

E-mail: prakriti_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/08(a)/2023		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer	8. Method of Sampling		As per Standard Method	
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling		02/04/2024	
4. Sampling Location		Borewell-8	10. Sample receipt in lab		03/04/2024	
5. Weather Condition		Clear Sky	11. Date of Analysis		03/04/2024 - 06/04/2024	
6. Lab Code		PCS24/70/409	12. Sample Analyzed By		Ms Alka Singh	
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No relaxation,

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Ground Water Board, Compliance of E.C., NOC from UP PCB, MoEF

Test Report for Borewell Water Quality

ULR- TC824124000000624



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/09/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-9	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/410	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.30	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1310	---	---
3.	Turbidity	NTU	APHA 2130 B	0.25	1	5
4.	TDS	mg/l	APHA 2540 C	770	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	342	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	385	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	113	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	116	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.87	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	57.7	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	49.4	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	146	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	31.33	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.058	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA: 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Authorized Signatory

(Signature)
(Dr. Divya Misra)
Managing Director

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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024

E-mail: prakriti_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZV

Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/09(a)/2024		PCS/IFFCO/01/2024			19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		As per Standard Method
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		02/04/2024
4. Sampling Location		Borewell-9		10. Sample receipt in lab		03/04/2024
5. Weather Condition		Clear Sky		11. Date of Analysis		03/04/2024 - 06/04/2024
6. Lab Code		PCS24/70/410		12. Sample Analyzed By		Ms Alka Singh
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA; 22nd Ed (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' under the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Managing Director

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Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Consents from
Ground Water Board, Compliance of E.C., NOC from UPPCB, MoEF

Test Report for Borewell Water Quality

ULR- TC824124000000625



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/10/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-10	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/411	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.50	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1090	---	---
3.	Turbidity	NTU	APHA 2130 B	0.30	1	5
4.	TDS	mg/l	APHA 2540 C	645	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	320	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	391	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl _B	54.4	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ E	70.3	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ E	1.08	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca _B	55.8	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg _B	45.1	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na _B	104	-	-
13.	Potassium as K	mg/l	APHA 3500-K _B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu _B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	33.72	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr _B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe _B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni _B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb _B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn _D	0.049	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn _B	<0.02	0.1	0.3

*As per APHA/AWWA: 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' under the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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(Dr. Divya Misra)
Managing Director

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GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date	
PCS/BWQ/10(a)/2024		PCS/IFFCO/01/2024		19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.			
2. Type of Industry		Fertilizer	8. Method of Sampling		As per Standard Method
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling		02/04/2024
4. Sampling Location		Borewell-10	10. Sample receipt in lab		03/04/2024
5. Weather Condition		Clear Sky	11. Date of Analysis		03/04/2024 - 06/04/2024
6. Lab Code		PCS24/70/411	12. Sample Analyzed By		Ms Alka Singh
7. Quantity of Sample		2 liter			
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012
					Requirement (Acceptable limit)
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-

*As per APHA/AWWA; 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Ground Water Board, Compliance of E.C., NOC from UP PCB, MoEF

Test Report for Borewell Water Quality

ULR- TC824124000000626



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/11/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-11	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/412	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.45	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1130	---	---
3.	Turbidity	NTU	APHA 2130 B	0.38	1	5
4.	TDS	mg/l	APHA 2540 C	670	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	364	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	392	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	72.7	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	84.5	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.15	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	71.2	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	46.50	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	103	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	31.98	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.047	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" under the water not suitable, but will may be subjected in the absence of an alternative source but up to the limits indicated under "permissible" limit in the absence of alternative source above which the sources will have to be rejected.

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Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/11(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-11		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/412		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Managing Director

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Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearance from
Ground Water Board, Compliance of E.C., S.O.C from UPFIR, MoEF

Test Report for Borewell Water Quality



ULR- TC824124000000627

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/12/2024		PCS/IFFCO/01/2024			19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad,				
2. Type of Industry		Fertilizer		8. Method of Sampling		As per Standard Method
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		02/04/2024
4. Sampling Location		Borewell-12		10. Sample receipt in lab		03/04/2024
5. Weather Condition		Clear Sky		11. Date of Analysis		03/04/2024 - 06/04/2024
6. Lab Code		PCS24/70/413		12. Sample Analyzed By		Ms Alka Singh
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1080	---	---
3.	Turbidity	NTU	APHA 2130 B	0.32	1	5
4.	TDS	mg/l	APHA 2540 C	640	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	395	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	392	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	72	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	75	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.38	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	64.8	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	58.2	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	84.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	29.81	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.042	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA: 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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(Dr. Divya Misra)
Managing Director

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Page 1 of 2

Services Available

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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024

E-mail: prakriti_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G12Y

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/12(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer	8. Method of Sampling	As per Standard Method		
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024		
4. Sampling Location		Borewell-12	10. Sample receipt in lab	03/04/2024		
5. Weather Condition		Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024		
6. Lab Code		PCS24/70/413	12. Sample Analyzed By	Ms Alka Singh		
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA, 22nd Ed. (2012) **NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under "permissible" limit in the absence of alternative source above which the sources will have to be rejected.

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Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Chlorination from
Ground Water Board, Compliance of E.C., NOC from UP PCB, MoEF

Test Report for Borewell Water Quality



ULR- TC824124000000628

Report No.	Lab Reference No.	Issue Date
PCS/BWQ/13/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-13	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/414	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.30	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1810	---	---
3.	Turbidity	NTU	APHA 2130 B	0.35	1	5
4.	TDS	mg/l	APHA 2540 C	1050	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	406	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	495	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	175	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	188	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.92	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	59.6	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	64.2	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	242	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	31.25	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.045	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA; 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' under the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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(Dr. Divya Misra)
Managing Director

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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024

E-mail: prakriti_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date	
PCS/BWQ/13(a)/2024		PCS/IFFCO/01/2024		19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.			
2. Type of Industry		Fertilizer	8. Method of Sampling		As per Standard Method
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling		02/04/2024
4. Sampling Location		Borewell-13	10. Sample receipt in lab		03/04/2024
5. Weather Condition		Clear Sky	11. Date of Analysis		03/04/2024 - 06/04/2024
6. Lab Code		PCS24/70/414	12. Sample Analyzed By		Ms Alka Singh
7. Quantity of Sample		2 liter			
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012
					Requirement (Acceptable limit)
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-

*As per APHA/AWWA; 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STN/ETP, Clearances from
Ground Water Board, Compliance of E.C., NOC from UP PCB, MoEF

Test Report for Borewell Water Quality



ULR- TC824124000000629

Report No.	Lab Reference No.	Issue Date
PCS/BWQ/14/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-14	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/415	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1010	---	---
3.	Turbidity	NTU	APHA 2130 B	0.37	1	5
4.	TDS	mg/l	APHA 2540 C	595	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	310	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	411	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	40.20	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	64.22	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.13	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	52.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	45.0	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	112.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	28.85	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.039	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA: 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under "permissible" limit in the absence of alternative source above which the sources will have to be rejected.

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GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/14(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-14		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/415		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA; 22nd Ed. (2012) **NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024

E-mail: prakriti_md@rediffmail.com

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GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

ULR- TC824124000000630



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/15/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-15	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/416	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.35	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1070	---	---
3.	Turbidity	NTU	APHA 2130 B	0.25	1	5
4.	TDS	mg/l	APHA 2540 C	630	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	348	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	394	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	61.3	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	74.0	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.41	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	60.1	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	49.4	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	96.4	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	28.96	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.036	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA, 22nd Ed. (2012) ** NR- No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under "permissible" limit in the absence of alternative source above which the sources will have to be rejected.

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5. No deviation in per the Standard Method.

Authorized Signatory

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Managing Director

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Address: 12, Vishnupuri, Church Road, Afiganj, Lucknow-226024

E-mail: prakriti_mdi@rediffmail.com

Tel: 0522-4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date	
PCS/BWQ/15(a)/2024		PCS/IFFCO/01/2024		19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.			
2. Type of Industry		Fertilizer	8. Method of Sampling		As per Standard Method
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling		02/04/2024
4. Sampling Location		Borewell-15	10. Sample receipt in lab		03/04/2024
5. Weather Condition		Clear Sky	11. Date of Analysis		03/04/2024 - 06/04/2024
6. Lab Code		PCS24/70/416	12. Sample Analyzed By		Ms Alka Singh
7. Quantity of Sample		2 liter			
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012
					Requirement (Acceptable limit)
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-

*As per APHA/AWWA; 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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5. No deviation as per the Standard Method.

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(Dr. Divya Misra)
Managing Director

"End of this Test Report"

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E-mail: prakriti_md@rediffmail.com
Tel: 0522- 4002545, Mobile: 09415518818,
GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

ULR- TC82412400000631



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/16/2024	PCS/IFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-16	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/417	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1165	---	---
3.	Turbidity	NTU	APHA 2130 B	0.27	1	5
4.	TDS	mg/l	APHA 2540 C	690	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	348	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	419	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	72.7	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	87.6	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	1.92	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	56.6	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	49.7	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	120	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	30.18	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.034	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA, 22nd Ed. (2012) ** NR - No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' under the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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(Dr. Divya Misra)
Managing Director

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Ground Water Board, Compliance of E.C., NOC from UP PCB, MoEF

Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/16(a)/2024		PCS/IFFCO/01/2024			19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		As per Standard Method
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		02/04/2024
4. Sampling Location		Borewell-16		10. Sample receipt in lab		03/04/2024
5. Weather Condition		Clear Sky		11. Date of Analysis		03/04/2024 - 06/04/2024
6. Lab Code		PCS24/70/417		12. Sample Analyzed By		Ms Alka Singh
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA; 22nd Ed (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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(Dr. Divya Misra)
Managing Director

"End of this Test Report"

Test Report for Borewell Water Quality



ULR- TC82412400000632

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/17/2024		PCS/IFFCO/01/2024			19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		As per Standard Method
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		02/04/2024
4. Sampling Location		Borewell-17		10. Sample receipt in lab		03/04/2024
5. Weather Condition		Clear Sky		11. Date of Analysis		03/04/2024 - 06/04/2024
6. Lab Code		PCS24/70/418		12. Sample Analyzed By		Ms Alka Singh
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.45	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1731	---	---
3.	Turbidity	NTU	APHA 2130 B	0.29	1	5
4.	TDS	mg/l	APHA 2540 C	1020	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	432	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	405	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	208.7	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	136	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	3.69	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	69.1	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	64.8	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	189	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	30.27	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.047	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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(Dr. Divya Misra)
Managing Director

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Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024

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Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/17(a)/2024		PCS/IFFCO/01/2024			19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer	8. Method of Sampling		As per Standard Method	
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling		02/04/2024	
4. Sampling Location		Borewell-17	10. Sample receipt in lab		03/04/2024	
5. Weather Condition		Clear Sky	11. Date of Analysis		03/04/2024 - 06/04/2024	
6. Lab Code		PCS24/70/418	12. Sample Analyzed By		Ms Alka Singh	
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA: 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source; but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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Ground Water Board, Compliance of E.C., NOC from UP PCB, MoEF

Test Report for Borewell Water Quality



ULR- TC82412400000633

Report No.	Lab Reference No.	Issue Date
PCS/BWQ/18/2024	PCS/IFFCO/01/2024	19/04/2024

1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.		
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024
4. Sampling Location	Borewell-18	10. Sample receipt in lab	03/04/2024
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024
6. Lab Code	PCS24/70/419	12. Sample Analyzed By	Ms Alka Singh
7. Quantity of Sample	2 liter		

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.55	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	870	---	---
3.	Turbidity	NTU	APHA 2130 B	0.36	1	5
4.	TDS	mg/l	APHA 2540 C	510	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	286	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	367	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	19.14	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	57.20	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.05	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	53.9	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	37.8	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	79.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	28.16	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.031	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA: 22nd Ed. (2012) ** NR = No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-18		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/419		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
I.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA; 22nd Ed. (2012) ** NR= No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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