

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

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

Date: 28.10.2023

To,

The Regional Office (Central Region)  
Ministry of Environment & Forests  
Govt. of India,  
Kendriya Bhawan, 5<sup>th</sup> 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 14<sup>th</sup> July, 2006.

Sir,

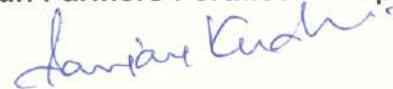
This has reference to your above letter regarding submission of half yearly compliance report on the implementation of Environmental Condition for Capacity Enhancement / de-bottlenecking and LNG Conversion Project of IFFCO Phulpur Plant. In this context, kindly find attached herewith the said compliance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

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

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## 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: (April - 2023 to September -2023)  
Specific Conditions:**

Sr.No.	Conditions	Compliance Status																																																
1.	The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> , NH <sub>3</sub> , Urea dust) particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. CO <sub>2</sub> recovery plant shall be installed to reduce CO <sub>2</sub> 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.	<p>The gaseous emission from Stacks / Chimney of IFFCO, Phulpur unit always conforms to the prescribed standards laid down by the UPPCB, Lucknow and CPCB / MoEF&amp;CC, New Delhi.</p> <p><b>Stack Analysis (Range) obtained during the period of April -2023 to September-2023.</b></p> <table><tr><th>Sample Point</th><th>SO<sub>2</sub> (mg/Nm<sup>3</sup>)</th><th>SPM (mg/Nm<sup>3</sup>)</th><th>AMMONIA (mg/Nm<sup>3</sup>)</th><th>UREA DUST (mg/Nm<sup>3</sup>)</th><th>NOx (mg/Nm<sup>3</sup>)</th></tr><tr><td>Power Plant-I stack</td><td>335-302</td><td>91-27</td><td>-</td><td>-</td><td>220-200</td></tr><tr><td>Power Plant-II stack</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Prilling Tower -I</td><td>-</td><td>-</td><td>38.90 – 33.50</td><td>42.60-40.20</td><td>-</td></tr><tr><td>Prilling Tower -II</td><td>-</td><td>-</td><td>38.90 - 36.60</td><td>43.10-40.20</td><td>-</td></tr><tr><td>Pri. Reformer -I stack</td><td>&lt;1.0</td><td>-</td><td>-</td><td>-</td><td>139-122</td></tr><tr><td>Pri.Reformer -II stack</td><td>&lt;1.0</td><td>-</td><td>-</td><td>-</td><td>136-120</td></tr><tr><td>GT-HRSG</td><td>&lt;1.0</td><td>-</td><td>-</td><td>-</td><td>24 -19</td></tr></table> <p>A 450 MT per day Carbon Dioxide Recovery Plant to recover CO<sub>2</sub> 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<sub>2</sub> emission in the environment. Report of Stacks emission and Ambient Air quality analysis by NABL accredited, (third party) is attached as <b>Annexure-1</b>.</p> <p>Monitoring of the pilling tower is being carried out as per CPCB guidelines. The particulate emission from Urea plant (43.10-40.20 mg/ Nm<sup>3</sup>) is always well within the prescribed norms. Online Methane analyzers are installed in Ammonia plant to monitor Hydrocarbons in addition to Gas Chromatographs installed in Laboratory.</p>	Sample Point	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	SPM (mg/Nm <sup>3</sup> )	AMMONIA (mg/Nm <sup>3</sup> )	UREA DUST (mg/Nm <sup>3</sup> )	NOx (mg/Nm <sup>3</sup> )	Power Plant-I stack	335-302	91-27	-	-	220-200	Power Plant-II stack	-	-	-	-	-	Prilling Tower -I	-	-	38.90 – 33.50	42.60-40.20	-	Prilling Tower -II	-	-	38.90 - 36.60	43.10-40.20	-	Pri. Reformer -I stack	<1.0	-	-	-	139-122	Pri.Reformer -II stack	<1.0	-	-	-	136-120	GT-HRSG	<1.0	-	-	-	24 -19
Sample Point	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	SPM (mg/Nm <sup>3</sup> )	AMMONIA (mg/Nm <sup>3</sup> )	UREA DUST (mg/Nm <sup>3</sup> )	NOx (mg/Nm <sup>3</sup> )																																													
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GT-HRSG	<1.0	-	-	-	24 -19																																													
2.	In urea plant, particulate emissions shall not exceed 50 mg/m <sup>3</sup> . Monitoring of the prilling tower shall be carried out as per CPCB guidelines. Hydrocarbon monitors shall be installed.																																																	



3.	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground 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, Allahabad. Ambient air quality monitoring data is submitted monthly to UPPCB, Lucknow, CPCB, New Delhi & Regional Office, MoEF&CC, Lucknow. All values are within the limit.						
Ambient Air Quality (Range) obtained during the period of April -2023 to September-2023.						
AAQ Monitoring Stations		PM <sub>2.5</sub> (microgram/m <sup>3</sup> )	PM <sub>10</sub> (microgram/m <sup>3</sup> )	SO <sub>2</sub> (microgram/m <sup>3</sup> )	Ammonia (microgram/m <sup>3</sup> )	NOx (microgram/m <sup>3</sup> )
CORDET		38-29	59-48	20-10	39-28	24-14
Central School		38-29	59-47	20-10	38-28	25-15
Railway Gate		39-28	59-49	20-10	38-28	25-12
Behind R.O.		39-29	59-48	19-10	38-28	25-16
Gate No.4		39-28	59-47	20-10	38-28	26-16

4.	<p>Total water requirement after expansion shall not exceed 35,500 m<sup>3</sup>/d. All the effluent generated shall be recycled &amp; reused in the process to reduce the fresh water.</p>	<p>Total water consumption after commissioning of the Capacity Enhancement Project is around 31911 M<sup>3</sup>/d during April 2023 to September 2023, as against the envisaged quantity of 35500 M<sup>3</sup>/d. All the effluent generated is recycled &amp; reused in the plant process / irrigation of farmland of our Farmer Training Institute and Green belt after adequate treatment within our premises.</p> <p>No effluent is discharged outside the premises except during the rainy season. The quality of final treated effluent is always conforms the standards prescribed under the E(P) Act 1986 and norms laid down by 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 <b>Annexure-2</b>.</p>
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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 April -2023 to September-2023. (All values are in mg/l except pH)						
		Characteristics	7.50 -7.10	Characteristics	N.T.	Characteristics	Free Ammonia As N	0.93 - 0.36
		pH		Total Chromium as Cr <sub>6</sub>				
		TSS	58-33	Hexavalent Chromium as Cr <sup>+6</sup>	N.T.	Total Kjeldahl Nitrogen as N		40.74-20.38
		BOD <sub>3</sub> at 27 deg C	20.00 -15.00	Zinc as Zn	N.T.	Nitrate Nitrogen as N		3.20-0.78
		Oil & Grease	3 - N.T.	COD	61.00-42.00	Dissolved Phosphate		0.89 -0.66
		Colour & Odour	Absent	Chlorides as Cl	998 - 802	Vanadium as V		N.T.
5.	Regular monitoring of ground water by installing piezometric 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. <b>Ground Water Quality (Range) during April -2023 to September-2023</b>						
		Analysis Parameters			Location (within plant)			
					Near Chromium Sludge Disposal Pit	Near Guard Pond		
					7.40 - 7.15	7.35 - 6.90		
					N.T.	N.T.		
					N.T.	N.T.		
					N.T.	N.T.		
					1.62 - 1.02	1.50 - 1.09		
					980 - 930	940 - 900		
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 town ship, surrounding villages and developing green belt.	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 the last year (April-2022-March-2023), 83170 MT of Ash has been dispatched and utilized by Cement Industries and others against the generation of 40246 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.						
Spent catalysts generated shall be properly stored in closed metallic drums before selling to		During the period from April 2023 to September-2023, 45383 MT Fly Ash has been dispatched and utilized by others against the generation of 24824 MT.						



	authorized recyclers / reproprocessors. Waste oil shall be used in steam generation plant as fuel along with coal or sold to authorized recyclers/reproprocessors.	Spent catalysts are stored in closed Metallic drums under shed inside the factory premises for sale to authorized recyclers/ reproprocessors 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 stream.	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 Allahabad to develop green belt in & around factory, township and CORDET. No. of Trees planted during the occasion of Plantation Drive as per the direction of Govt. of U.P., approx. 35580 saplings have been planted, during <b>April -2023 to September-2023</b>  Area covered as percentage of total area owned by the industry: - 34.60%. Density of tree plantation is being maintained as per the guideline.



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 so 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.49.9 Crores for the period, April- 2023 to September-2023 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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 of 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.



**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 and Expansion of existing fertilizer plant for manufacturing of Nano Fertilizer with proposed capacity of 36500 KLA at IFFCO Phulpur, has been submitted to MOEF&CC. Proposal has been approved and Environment Clearance No. EC22A016UP124030 dt. 14 <sup>th</sup> March 2022 granted to IFFCO Phulpur by MOEF&CC, New Delhi. CTO for the Project (170943/UPPCB/Allahabad (UPPCBRO)/CTO/both/PRAYAGRAJ/2022) has also been granted by UPPCB, Lucknow. Project has been completed and compliance reports related to the project are being submitted regularly to all concerned agencies.
	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 the 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.

## Test Report for Stack Monitoring

ULR- TC824123000001669



Report No.		Reference No.		Issue Date
PCS/SE/01/2023		PCS/IFFCO/03/2023		25/10/2023
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	11/10/2023-12/10/2023
4. Weather Condition		Clear Sky	9. Sample receipt in lab	13/10/2023
5. Sampling Location		Urea-1	10. Date of Analysis	13/10/2023-14/10/2023
6. Lab Code		PCS23/102/1488	11. Sample Analyzed By	Mr. Rohit Yadav
S. No.			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)		72	
8.	Atmospheric Pressure (mmHg)		740	
9.	Atmospheric temperature ( <sup>o</sup> K)		309	
10.	Flue Gas temperature ( <sup>o</sup> K)		321	
11.	Flue Gas Velocity (m/s)		3.41	
12.	Flue Gas Exit Volume (Lit)		1008.0	
	Pollutants	Reference Method	Result	Standard*
	PM (mg/Nm <sup>3</sup> )	IS 11255 PART-1:1985	46.4	-
	NH <sub>3</sub> ( mg/Nm <sup>3</sup> )	IS 11255 PART-6	34.0	-

\*BDL = Below Detection Limit

- Note: 1. The results in the Test Report relate only to the items tested.  
2. The report shall not be reproduced-except in full, without the written permission of laboratory.  
3. The report shall not be used for any other purpose than declared by the sponsor.  
4. Prakriti Consultants Services are not regulatory agency hence no part of this report should be used for legal purpose under any circumstances.  
5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divya Misra)  
Managing Director

"End of this Test Report"

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## Test Report for Stack Monitoring

ULR- TC824123000001670

Report No.	Reference No.		Issue Date	
PCS/SE/02/2023	PCS/IFFCO/03/2023		25/10/2023	
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	11/10/2023-12/10/2023	
4. Weather Condition	Clear Sky	9. Sample receipt in lab	13/10/2023	
5. Sampling Location	Urea-2	10. Date of Analysis	13/10/2023-14/10/2023	
6. Lab Code	PCS23/102/1489	11. Sample Analyzed By	Mr. Rohit Yadav	
S. No.	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)	85		
8.	Atmospheric Pressure (mmHg)	740		
9.	Atmospheric temperature (°K)	309		
10.	Flue Gas temperature (°K)	323		
11.	Flue Gas Velocity (m/s)	2.97		
12.	Flue Gas Exit Volume (Lit)	1020..0		
	Pollutants	Reference Method	Result	Standard*
	PM (mg/Nm <sup>3</sup> )	IS 11255 PART-1:1985	38.9	-
	NH <sub>3</sub> ( mg/Nm <sup>3</sup> )	IS 11255 PART-6	32.0	-

\*BDL= Below Detection Limit

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Authorized Signatory

(Dr. Divya Misra)  
Managing Director

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**Test Report for Stack Monitoring**



ULR- TC824123000001665

Report No.		Reference No.		Issue Date
PCS/SE/01/2023		PCS/IFFCO/03/2023		25/10/2023
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	11/10/2023-12/10/2023
4. Weather Condition		Clear Sky	9. Sample receipt in lab	13/10/2023
5. Sampling Location		Ammonia-1 Primary reformer	10. Date of Analysis	13/10/2023-14/10/2023
6. Lab Code		PCS23/102/1486	11. Sample Analyzed By	Mr. Rohit Yadav
S. No.			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
		PM (mg/Nm <sup>3</sup> )	IS 11255 PART-1:1985	10.4
		SO <sub>2</sub> (mg/Nm <sup>3</sup> )	IS 11255 PART-2:1985	<1.0
		NOx (mg/Nm <sup>3</sup> )	PCS/SOP/ST/NOx/12:2021	142
				Standard*
				-
				-
				-

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

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Authorized Signatory

*(Signature)*

(Dr. Divya Misra)

Managing Director

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## Test Report for Stack Monitoring



ULR- TC824123000001666

Report No.	Reference No.	Issue Date
PCS/SE/02/2023	PCS/IFFCO/03/2023	25/10/2023
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. Sample collected by	Mr. Vipin & Mr. Sunil	8. Date of sampling
4. Weather Condition	Clear Sky	9. Sample receipt in lab
5. Sampling Location	Ammonia-2 Primary reformer	10. Date of Analysis
6. Lab Code	PCS23/102/1487	11. Sample Analyzed By
S. No.	Value	
1	Duct Attached to	
2	Type of Stack	
3	Stack height from Ground (m)	
4	Material of Construction of duct	
5	Normal Operating hour	
6	Type of fuel used	
7	Sampling Duration	
8	Atmospheric Pressure (mmHg)	
	Pollutants	Reference Method
	PM (mg/Nm <sup>3</sup> )	IS 11255 PART-1:1985
	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	IS 11255 PART-2:1985
	NO <sub>x</sub> (mg/Nm <sup>3</sup> )	PCS/SOP/ST/NO <sub>x</sub> /12:2021
		Result
		Standard*

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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

## Test Report for Stack Monitoring

ULR- TC824123000001667



Report No.	Reference No.	Issue Date
PCS/SE/03/2023	PCS/IFFCO/03/2023	25/10/2023
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. Sample collected by	Mr. Vipin & Mr. Sunil	8. Date of sampling
4. Weather Condition	Clear Sky	9. Sample receipt in lab
5. Sampling Location	Ammonia-1 (GT-HRSG)	10. Date of Analysis
6. Lab Code	PCS23/102/1484	11. Sample Analyzed By
S. No.	Value	
1.	Duct Attached to	
2.	Type of Stack	
3.	Stack height from Ground (m)	
4.	Material of Construction of duct	
5.	Normal Operating hour	
6.	Type of fuel used	
7.	Sampling Duration	
8.	Atmospheric Pressure (mmHg)	
9.	Atmospheric temperature ( <sup>0</sup> K)	
10.	Flue Gas temperature ( <sup>0</sup> K)	
11.	Flue Gas Velocity (m/s)	
12.	Flue Gas Exit Volume (Litre)	
	Pollutants	Reference Method
	PM (mg/Nm <sup>3</sup> )	IS 11255 PART-1:1985
	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	IS 11255 PART-2:1985
	NOx (mg/Nm <sup>3</sup> )	PCS/SOP/ST/NOx/12:2021
	Result	Standard*
	9.5	-
	<1.0	-
	24	-

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 5. No deviation as per the Standard Method.

Authorized Signatory



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



## Test Report for Stack Monitoring



ULR- TC824123000001668

Report No.	Reference No.		Issue Date
PCS/SE/04/2023	PCS/IFFCO/03/2023		25/10/2023
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	11/10/2023-12/10/2023
4. Weather Condition	Clear Sky	9. Sample receipt in lab	13/10/2023
5. Sampling Location	Ammonia-2 (HRU)	10. Date of Analysis	13/10/2023-14/10/2023
6. Lab Code	PCS23/102/1485	11. Sample Analyzed By	Mr. Rohit Yadav
S. No.	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 ( $^{\circ}$ K)	308	
10.	Flue Gas temperature ( $^{\circ}$ K)	388	
11.	Flue Gas Velocity (m/s)	6.72	
12.	Flue Gas Exit Volume (Litre)	1035.0	
	Pollutants	Reference Method	Result
	PM (mg/Nm <sup>3</sup> )	IS 11255 PART-1:1985	9.6
	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	IS 11255 PART-2:1985	<1.0
	NOx (mg/Nm <sup>3</sup> )	PCS/SOP/ST/NOx/12:2021	59.0

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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 & 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

## Stack Emission Data and Analytical Results



ULR- TC824123000001663

Report No.	Reference No.		Issue Date
PCS/SE/01/2023	PCS/IFFCO/03/2023		25/10/2023
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	11/10/2023-12/10/2023
4. Weather Condition	Clear Sky	9. Sample receipt in lab	13/10/2023
5. Sampling Location	Boiler No- 1	10. Date of Analysis	13/10/2023-14/10/2023
6. Lab Code	PCS23/102/1490	11. Sample Analyzed By	Mr. Rohit Yadav
S. No.	Value		
1	Duct Attached to		
2	Type of Stack		
3	Stack height from Ground (m)		
4	Type of Duct		
5	Material of Construction of duct		
6	Sampling port height from Ground(m)		
7	Type of fuel used		
8	Sampling Duration (min)		
9	Atmospheric Pressure (mmHg)		
10	Atmospheric temperature ( <sup>0</sup> K)		
11	Flue Gas temperature ( <sup>0</sup> K)		
12	Flue Gas Velocity (m/s)		
13	Flue Gas Exit Volume (Lit)		
	Pollutants	Reference Method	Result
	PM (mg/Nm <sup>3</sup> )	IS 11255 PART-1:1985	28.9
	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	IS 11255 PART-2:1985	326.0
	NO <sub>x</sub> (mg/Nm <sup>3</sup> )	PCS/SOP/ST/NO <sub>x</sub> /12:2021	235.0
	Hg(mg/Nm <sup>3</sup> )	PCS/SOP/ST/08:2021	*BDL

\*BDL- Below Detection Limit

- Note:
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  - No deviation as per the Standard Method.

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(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/ETP, Clearances from  
Ground Water Board, Compliance of E.C., NOC from UP PCB, MoEF





## Stack Emission Data and Analytical Results


ULR- TC824123000001664

Report No.	Reference No.		Issue Date
PCS/SE/02/2023	PCS/IFFCO/03/2023		25/10/2023
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	11/10/2023-12/10/2023
4. Weather Condition	Clear Sky	9. Sample receipt in lab	13/10/2023
5. Sampling Location	Boiler No- 3	10. Date of Analysis	13/10/2023-14/10/2023
6. Lab Code	PCS23/102/1491	11. Sample Analyzed By	Mr. Rohit Yadav
S. No.	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)	60	
9	Atmospheric Pressure (mmHg)	740	
10	Atmospheric temperature ( <sup>o</sup> K)	308	
11	Flue Gas temperature ( <sup>o</sup> K)	400	
12	Flue Gas Velocity (m/s)	11.8	
13	Flue Gas Exit Volume (Lit)	1080.0	
	Pollutants	Reference Method	Result
	PM (mg/Nm <sup>3</sup> )	IS 11255 PART-1:1985	91.0
	SO <sub>2</sub> (mg/Nm <sup>3</sup> )	IS 11255 PART-2:1985	332
	NO <sub>x</sub> (mg/Nm <sup>3</sup> )	PCS/SOP/ST/NO <sub>x</sub> /12:2021	221
	Hg(mg/Nm <sup>3</sup> )	PCS/SOP/ST/08:2021	*BDL
			Standard*

\*BDL= Below Detection Limit

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 (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 & 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 for Ambient Air Quality**

ULR- TC824123000001657



**Report No.** PCS/AAQ/01/2023 **Reference No.** PCS/IFFCO/03/2023 **Issue Date** 25/10/2023

1. Name & Address of Industry:	<b>M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj</b>				
2.Type of Industry:	Fertilizer industry	7.Method of Sampling:	PCS/WI/SAMP/20		
3.Sampling Location:	<b>Near Railway Gate</b>	8.Date of Monitoring :	11/10/2023-12/10/2023		
4. Monitoring done by:	Mr. Vipin.& Mr.Sunil	9.Sample Receipt in Lab:	13/10/2023		
5. Weather Condition :	Clear Sky	10.Date of Analysis:	13/10/2023 – 14/10/2023		
6.Lab Code:	PCS23/102/1479	11.Sample Analyzed By:	Mr. Rohit Yadav		

Sl. No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	<b>Particulate Matter (PM<sub>10</sub>)</b>	(µg/ m <sup>3</sup> )	IS: 5182 Part (23)	57.0	100
2	<b>Particulate Matter (PM<sub>2.5</sub>)</b>	(µg/ m <sup>3</sup> )	IS 5182 (Part-24)	36.0	60
3	<b>Sulphur Dioxide (SO<sub>2</sub>)</b>	(µg/ m <sup>3</sup> )	IS : 5182 (Part-2)	13.8	80
4	<b>Nitrogen Dioxide (NO<sub>2</sub>)</b>	(µg/ m <sup>3</sup> )	IS: 5182 (Part 6)	26.5	80
5	<b>Ammonia(NH<sub>3</sub>)</b>	(µg/ m <sup>3</sup> )	IS: 5182 (Part-25)	31.0	400

\*NAAQS CPCB Notification, dated 18.11.2009

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  5. No deviation as per the Standard Method.

**Authorized Signatory**

*Dr. Divya Misra*

**(Dr. Divya Misra)**

**Managing Director**

“End of this Test Report”



## Test Report for Ambient Air Quality

Report No. PCS/AAQ/01/2023		Reference No. PCS/IFFCO/03/2023		Issue Date 25/10/2023	
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 :	11/10/2023-12/10/2023	
4. Monitoring done by:		Mr. Vipin,& Mr.Sunil	9.Sample Receipt in Lab:	13/10/2023	
5. Weather Condition :		Clear Sky	10.Date of Analysis:	13/10/2023 – 14/10/2023	
6.Lab Code:		PCS23/102/1479	11.Sample Analyzed By:	Mr. Rohit Yadav	
Sl. No.	Parameters	Unit	Reference Method	Result	Standards*
1	Urea	(µg/ m <sup>3</sup> )	Micro Kjeldahl Method	25.0	-
2	HC	(µg/ m <sup>3</sup> )	GC FID	ND*	-

\*NAAQS CPCB Notification, dated 18.11.2009

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(Dr. Divya Misra)  
Managing Director

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## Test Report for Ambient Air Quality

ULR- TC824123000001658



### Report No.

PCS/AAQ/02/2023

### Reference No.

PCS/IFFCO/03/2023

### Issue Date

25/10/2023

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 :

11/10/2023-12/10/2023

4. Monitoring done by:

Mr. Vipin, & Mr. Sunil

9. Sample Receipt in Lab:

13/10/2023

5. Weather Condition :

Clear Sky

10. Date of Analysis:

13/10/2023 – 14/10/2023

6. Lab Code:

PCS23/102/1480

11. Sample Analyzed By:

Mr. Rohit Yadav

Sl. No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM <sub>10</sub> )	( $\mu\text{g}/\text{m}^3$ )	IS: 5182 Part (23)	59.0	100
2	Particulate Matter (PM <sub>2.5</sub> )	( $\mu\text{g}/\text{m}^3$ )	IS 5182 (Part-24)	38.0	60
3	Sulphur Dioxide (SO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	IS : 5182 (Part-2)	14.7	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	IS: 5182 (Part 6)	22.3	80
5	Ammonia (NH <sub>3</sub> )	( $\mu\text{g}/\text{m}^3$ )	IS: 5182 (Part-25)	29.0	400

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**(Dr. Divya Misra)**  
Managing Director

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## Test Report for Ambient Air Quality

Report No.		Reference No.		Issue Date	
PCS/AAQ/02/2023		PCS/IFFCO/03/2023		25/10/2023	
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 :	11/10/2023-12/10/2023	
4. Monitoring done by:		Mr. Vipin,& Mr.Sunil	9.Sample Receipt in Lab:	13/10/2023	
5. Weather Condition :		Clear Sky	10.Date of Analysis:	13/10/2023 – 14/10/2023	
6.Lab Code:		PCS23/102/1480	11.Sample Analyzed By:	Mr. Rohit Yadav	
Sl. No.	Parameters	Unit	Reference Method	Result	Standards*
1	Urea	(µg/ m <sup>3</sup> )	Micro Kjeldahl Method	25.6	-
2	HC	(µg/ m <sup>3</sup> )	GC FID	ND*	-

\*NAAQS CPCB Notification, dated 18.11.2009

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**Authorized Signatory**



**(Dr. Divya Misra)**  
**Managing Director**

“End of this Test Report”

**Test Report for Ambient Air Quality**

ULR- TC824123000001659



**Report No.**

PCS/AAQ/03/2023

**Reference No.**

PCS/IFFCO/03/2023

**Issue Date**

25/10/2023

**1. Name & Address of Industry:**

**M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj**

**2.Type of Industry:**

Fertilizer industry

**3.Sampling Location:**

**Near CORDET**

**4. Monitoring done by:**

Mr. Vipin, & Mr. Sunil

**5. Weather Condition :**

Clear Sky

**6.Lab Code:**

PCS23/102/1481

**7.Method of Sampling:**

PCS/WI/SAMP/20

**8.Date of Monitoring :**

11/10/2023-12/10/2023

**9.Sample Receipt in Lab:**

13/10/2023

**10.Date of Analysis:**

13/10/2023 – 14/10/2023

**11.Sample Analyzed By:**

Mr. Rohit Yadav

Sl. No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM <sub>10</sub> )	(µg/ m <sup>3</sup> )	IS: 5182 Part (23)	58.0	100
2	Particulate Matter (PM <sub>2.5</sub> )	(µg/ m <sup>3</sup> )	IS 5182 (Part-24)	37.0	60
3	Sulphur Dioxide (SO <sub>2</sub> )	(µg/ m <sup>3</sup> )	IS : 5182 (Part-2)	10.3	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	(µg/ m <sup>3</sup> )	IS: 5182 (Part 6)	18.5	80
5	Ammonia(NH <sub>3</sub> )	(µg/ m <sup>3</sup> )	IS: 5182 (Part-25)	32.0	400

\*NAAQS CPCB Notification, dated 18.11.2009

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**(Dr. Divya Misra)**

**Managing Director**

“End of this Test Report”



## Test Report for Ambient Air Quality

Report No.		Reference No.		Issue Date	
PCS/AAQ/03/2023		PCS/IFFCO/03/2023		25/10/2023	
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 :	11/10/2023-12/10/2023	
4. Monitoring done by:		Mr. Vipin,& Mr.Sunil	9.Sample Receipt in Lab:	13/10/2023	
5. Weather Condition :		Clear Sky	10.Date of Analysis:	13/10/2023 – 14/10/2023	
6.Lab Code:		PCS23/102/1481	11.Sample Analyzed By:	Mr. Rohit Yadav	
Sl. No.	Parameters	Unit	Reference Method	Result	Standards*
1	Urea	(µg/ m <sup>3</sup> )	Micro Kjeldahl Method	23.0	-
2	HC	(µg/ m <sup>3</sup> )	GC FID	ND*	-

\*NAAQS CPCB Notification, dated 18.11.2009

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  5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divya Misra)  
Managing Director

“End of this Test Report”

## Test Report for Ambient Air Quality

ULR- TC824123000001660



**Report No.**

PCS/AAQ/04/2023

**Reference No.**

PCS/IFFCO/03/2023

**Issue Date**

25/10/2023

**1. Name & Address of Industry:**

**M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj**

**2.Type of Industry:**

Fertilizer industry

**3.Sampling Location:**

**Gate No. 4**

**4. Monitoring done by:**

Mr. Vipin,& Mr.Sunil

**5. Weather Condition :**

Clear Sky

**6.Lab Code:**

PCS23/102/1482

**7.Method of Sampling:**

PCS/WI/SAMP/20

**8.Date of Monitoring :**

11/10/2023-12/10/2023

**9.Sample Receipt in Lab:**

13/10/2023

**10.Date of Analysis:**

13/10/2023 – 14/10/2023

**11.Sample Analyzed By:**

Mr. Rohit Yadav

Sl. No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM <sub>10</sub> )	(µg/ m <sup>3</sup> )	IS: 5182 Part (23)	54.0	100
2	Particulate Matter (PM <sub>2.5</sub> )	(µg/ m <sup>3</sup> )	IS 5182 (Part-24)	34.0	60
3	Sulphur Dioxide (SO <sub>2</sub> )	(µg/ m <sup>3</sup> )	IS : 5182 (Part-2)	15.4	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	(µg/ m <sup>3</sup> )	IS: 5182 (Part 6)	27.6	80
5	Ammonia(NH <sub>3</sub> )	(µg/ m <sup>3</sup> )	IS: 5182 (Part-25)	34.0	400

\*NAAQS CPCB Notification, dated 18.11.2009

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



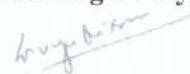
## Test Report for Ambient Air Quality

Report No.		Reference No.		Issue Date	
PCS/AAQ/04/2023		PCS/IFFCO/03/2023		25/10/2023	
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 :	11/10/2023-12/10/2023	
4. Monitoring done by:		Mr. Vipin,& Mr.Sunil	9.Sample Receipt in Lab:	13/10/2023	
5. Weather Condition :		Clear Sky	10.Date of Analysis:	13/10/2023 – 14/10/2023	
6.Lab Code:		PCS23/102/1482	11.Sample Analyzed By:	Mr. Rohit Yadav	
Sl. No.	Parameters	Unit	Reference Method	Result	Standards*
1	Urea	(µg/ m <sup>3</sup> )	Micro Kjeldahl Method	24.0	-
2	HC	(µg/ m <sup>3</sup> )	GC FID	ND*	-

\*NAAQS CPCB Notification, dated 18.11.2009

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  5. No deviation as per the Standard Method.

Authorized Signatory



(Dr. Divya Misra)  
Managing Director

“End of this Test Report”

## Test Report for Ambient Air Quality

ULR- TC824123000001661



**Report No.**  
PCS/AAQ/05/2023

**Reference No.**  
PCS/IFFCO/03/2023

**Issue Date**  
25/10/2023

**1. Name & Address of Industry:** **M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj**

<b>2. Type of Industry:</b> <b>3. Sampling Location:</b> <b>4. Monitoring done by:</b> <b>5. Weather Condition :</b> <b>6. Lab Code:</b>	Fertilizer industry <b>Kendriya Vidyalaya</b> Mr. Vipin, & Mr. Sunil Clear Sky PCS23/102/1483	<b>7. Method of Sampling:</b> <b>8. Date of Monitoring :</b> <b>9. Sample Receipt in Lab:</b> <b>10. Date of Analysis:</b> <b>11. Sample Analyzed By:</b>	PCS/WI/SAMP/20 11/10/2023-12/10/2023 13/10/2023 13/10/2023 – 14/10/2023 Mr. Rohit Yadav
--	---	---	---

Sl. No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM <sub>10</sub> )	(µg/ m <sup>3</sup> )	IS: 5182 Part (23)	55.0	100
2	Particulate Matter (PM <sub>2.5</sub> )	(µg/ m <sup>3</sup> )	IS 5182 (Part-24)	35.0	60
3	Sulphur Dioxide (SO <sub>2</sub> )	(µg/ m <sup>3</sup> )	IS : 5182 (Part-2)	21.7	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	(µg/ m <sup>3</sup> )	IS: 5182 (Part 6)	24.9	80
5	Ammonia (NH <sub>3</sub> )	(µg/ m <sup>3</sup> )	IS: 5182 (Part-25)	35.0	400

\*NAAQS CPCB Notification, dated 18.11.2009

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  - No deviation as per the Standard Method.

**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 & 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 for Noise Monitoring

ULR- TC824123000001662



**Report No.** PCS/NQ/01/2023 **Reference No.** PCS/IFFCO/03/2023 **Issue Date** 25/10/2023

**1. Name of Industry** M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj

<b>2.Type of Industry</b>	Fertilizer Industry	<b>7.Method of Sampling</b>	PCS/WI/SAMP/20
<b>3.Sampling Location</b>	<b>S. No. 1-13</b>	<b>8.Date of Monitoring</b>	11/10/2023-12/10/2023
<b>4. Monitoring done by</b>	Mr. Vipin & Mr. Sunil	<b>9.Sample Receipt in Lab</b>	13/10/2023
<b>5. Weather Condition</b>	Clear Sky	<b>10.Date of Analysis</b>	-
<b>6.Lab Code</b>	PCS23/102/1492-1504	<b>11.Sample Analyzed By</b>	Mr. Vipin

**Reference Method: IS-9989, 1981**

S. No.	Location	Noise dB(A)
1	Urea-1 Control Room	55.2
2	Ammonia-1 Control Room	57.6
3	I.G. (Plant-1) Control Room	59.2
4	31 Compressor Control Room	63.8
5	41 Compressor Control Room	64.0
6	Compressor Control Room of Ammonia II	61.2
7	Air Compressor (K.T.I-2) Control Room	65.7
8	Power Plant Control Room	60.5
9	Time Office	56.8
10	Railway Gate	53.2
11	Ammonia Storage Tank	56.8
12	Behind R.O Plant	53.7
13	Guard Pond	57.6
<b>* Standard ( Noise)</b>		
Industrial area		75
Commercial area		65
Residential area		55
Silence Zone		50

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*(Signature)*

**(Dr. Divya Misra)**  
**Managing Director**

"End of this Test Report"

Page 1 of 1

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

## Test Report for Ambient Air Quality

<b>Report No.</b> PCS/AAQ/05/2023	<b>Reference No.</b> PCS/IFFCO/03/2023	<b>Issue Date</b> 25/10/2023
--------------------------------------	---	---------------------------------

1. Name & Address of Industry:	<b>M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj</b>				
2.Type of Industry:	Fertilizer industry	7.Method of Sampling:	PCS/WI/SAMP/20		
3.Sampling Location:	<b>Kendriya Vidyalaya</b>	8.Date of Monitoring :	11/10/2023-12/10/2023		
4. Monitoring done by:	Mr. Vipin,& Mr.Sunil	9.Sample Receipt in Lab:	13/10/2023		
5. Weather Condition :	Clear Sky	10.Date of Analysis:	13/10/2023 – 14/10/2023		
6.Lab Code:	PCS23/102/1483	11.Sample Analyzed By:	Mr. Rohit Yadav		
Sl. No.	Parameters	Unit	Reference Method	Result	Standards*
1	Urea	( $\mu\text{g}/\text{m}^3$ )	Micro Kjeldahl Method	23.0	-
2	HC	( $\mu\text{g}/\text{m}^3$ )	GC FID	ND*	-

\*NAAQS CPCB Notification, dated 18.11.2009

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**(Dr. Divya Misra)**  
**Managing Director**

“End of this Test Report”





# Prakriti Consultants Services

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(An ISO 14001:2015, ISO 9001:2015 and ISO 45001:2018 Certified Organization)  
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Tel: 0522-4002545, Mobile: 09415518818,  
GSTIN :- 09AAJFP5925G1ZY



## Test Report of Effluent Water (Guard Pond Inlet)

ULR- TC824123000001692

Report No.		Reference No.		Issue Date	
PCS/WWQ/01/2023		PCS/IFFCO/03/2023		25/10/2023	
1.Name & address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad U.P			
2. Type of Industry:		Fertilizer	7. Method of Sampling	As per Standard Method	
3. Sampling Location:		Guard Pond Inlet	8.Date of Sampling:	12/10/2023	
4. Sampling Done by:		Mr Vipin & Mr Sunil	9. Sample Received in Lab:	13/10/2023	
5. Weather Condition :		Clear Sky	10. Date of Testing :	14/10/2023- 20/10/2023	
6. Lab Code:		PCS23/187/1208	11. Analyzed by:	Ms Alka Singh	
S. N	Parameters	Unit	Reference Method 23 <sup>rd</sup> Edition	Results	
1.	pH	-	APHA 4500H+-B	7.10	
2.	Temperature	°C	APHA2550 B	30	
3.	Color	Hazen	APHA 2120B	10.0	
4.	Odour	-	APHA 2150B	Odourless	
5.	TDS	mg/l	APHA 2540C	1930	
6.	TSS	mg/l	APHA 2540D	38.0	
7.	Chloride as Cl <sup>-</sup>	mg/l	APHA4500-Cl-B	1037	
8.	COD	mg/l	APHA 5220-C	46.0	
9.	BOD (3 Days at 27°C)	mg/l	IS 3025(Part 44)	23.0	
10.	Total Ammonical Nitrogen as N	mg/l	APHA 4500 NH <sub>3</sub> -C	24.8	
11.	Total Kjeldahl Nitrogen as N	mg/l	APHA 4500 Norg-B	34.18	
12.	Free Ammonia as N	mg/l	APHA 4500 NH <sub>3</sub> -C	0.25	
13.	Phosphate as P	mg/l	APHA 4500 P-D	1.12	
14.	Nitrate as N	mg/l	APHA4500-NO3-B	2.40	
15.	Fluoride as F	mg/l	APHA 4500 F-D	1.08	
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	0.072	
19.	Total Chromium as Cr	mg/l	APHA3111-B	<0.05	

\*Free-NH<sub>3</sub>-<1.0mg/l BDL\* = Below Detection Limit

\*\*Standard as per Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No 174 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"

## Test Report of Effluent Water (Guard Pond Outlet)

ULR- TC824123000001693



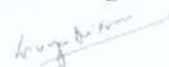
Report No.		Reference No.		Issue Date	
PCS/WWQ/02/2023		PCS/IFFCO/03/2023		25/10/2023	
1.Name & address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad UP			
2. Type of Industry:		Fertilizer	7. Method of Sampling	As per Standard Method	
3. Sampling Location:		Guard Pond Outlet	8.Date of Sampling:	12/10/2023	
4. Sampling Done by:		Mr Vipin & Mr Sunil	9. Sample Received in Lab:	13/10/2023	
5. Weather Condition :		Clear Sky	10. Date of Testing :	14/10/2023- 20/10/2023	
6. Lab Code:		PCS23/187/1209	11. Analyzed by:	Ms Alka Singh	
S. N	Parameters	Unit	Reference Method 23 <sup>rd</sup> Edition	Results	Standard*
1.	pH	-	APHA 4500H+-B	7.00	6.5 –8.5
2.	Temperature	<sup>0</sup> C	APHA2550 B	30	
3.	Color	Hazen	APHA 2120B	5.0	-
4.	Odour	-	APHA 2150B	Odourless	-
5.	TDS	mg/l	APHA 2540C	1890	-
6.	TSS	mg/l	APHA 2540D	33.0	100
7.	Chloride as Cl <sup>-</sup>	mg/l	APHA4500-Cl-B	965	-
8.	COD	mg/l	APHA 5220-C	45.0	-
9.	BOD (3 Days at 27°C)	mg/l	IS 3025(Part 44)	21.0	-
10.	Total Ammonical Nitrogen as N	mg/l	APHA 4500 NH <sub>3</sub> -C	22.1	50
11.	Total Kjeldahl Nitrogen as N	mg/l	APHA 4500 Norg-B	34.46	75
12.	Free Ammonia as N	mg/l	APHA 4500 NH <sub>3</sub> -C	0.20	2.0
13.	Phosphate as P	mg/l	APHA 4500 P-D	0.69	-
14.	Nitrate as N	mg/l	APHA4500-NO3-B	1.85	10.0
15.	Fluoride as F	mg/l	APHA 4500 F-D	0.97	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	0.051	5.0
19.	Total Chromium as Cr	mg/l	APHA3111-B	<0.05	2.0

\*Free-NH<sub>3</sub>-<1.0mg/l BDL\*- Below Detection Limit

\*\*Standard as per Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No 174 dated 19.05.1993.

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Authorized Signatory



(Dr. Divya Misra)  
Managing Director

"End of the Report"

Page 1 of 1



## Test Report for R.O Outlet Water

ULR- TC824123000001690



Report No.		Lab Reference No.			Issue Date	
PCS/RO/02/2023		PCS/IFFCO/03/2023			25/10/2023	
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:		12/10/2023
4.Sampling Location		R.O Outlet Water		10. Sample receipt in lab		13/10/2023
5.Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1206		12. Sample Analyzed By		Ms Shivani Chaturvedi
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	7.78	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	341	---	---
3.	TDS	mg/l	APHA 2540 C	197.8	500	2000
4.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	35.2	200	600
5.	Chloride as Cl	mg/l	APHA 4500-Cl,B	54.7	250	1000
6.	Total Ammonical Nitrogen	mg/l	APHA 4500 Norg-B	0.34	-	-
7.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	4.1	45	NR**

\*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"

Page 1 of 1

## Test Report of Waste Water



ULR- TC824123000001691

Report No.		Reference No.		Issue Date	
PCS/WWQ/01/2023		PCS/IFFCO/03/2023		25/10/2023	
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.UP			
2. Type of Industry	Fertilizer	8. Lab Code	PCS23/187/1207		
3. Sampling Location	STP Outlet	9. Date of Sampling	12/10/2023		
4. Sample Collected by	Mr Vipin & Mr Sunil	10. Sample Receipt in Lab	13/10/2023		
5. Analyzed by	Ms. Alka Singh	11. Date of Testing	14/10/2023- 20/10/2023		
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	8.36	6.5-9.0
2.	Total Suspended Solids (TSS)	mg/l	APHA 2540-D	14.3	100
3.	BOD (3days at 27 <sup>0</sup> C)	mg/l	IS:3025 (Part 44) 1993 RA 2009	8.0	30

\*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 of Waste Water

Report No.		Reference No.		Issue Date	
PCS/WWQ/01(a)/2023		PCS/IFFCO/02/2023		25/10/2023	
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.UP			
2. Type of Industry	Fertilizer	8. Lab Code	PCS23/187/1207		
3. Sampling Location	STP Outlet	9. Date of Sampling	12/10/2023		
4. Sample Collected by	Mr Vipin & Mr Sunil	10. Sample Receipt in Lab	13/10/2023		
5. Analyzed by	Ms. Ajay Kumar	11. Date of Testing	14/10/2023- 20/10/2023		
6. Weather Condition	Clear Sky				
7. Method of Sampling	As per Standard Method				
S. No.	Parameter	Units	Reference Method	Results	Standard*
1	Feacal coliform	MPN/100	APHA 9221	500	<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.

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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- TC824123000001689

Report No.	Lab Reference No.	Issue Date
PCS/FRW/01/2023	PCS/IFFCO/03/2023	25/10/2023

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:	12/10/2023
4.Sampling Location	Filter Raw Water	10. Sample receipt in lab	13/10/2023
5.Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1205	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.72	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	960	---	---
3.	Turbidity	NTU	APHA 2130 B	0.18	1	5
4.	TDS	mg/l	APHA 2540 C	570	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	326	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	402	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	56.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	54.0	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	1.84	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	52.8	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	47.1	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	98.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Dissolved Silica as (SiO <sub>2</sub> )	mg/l	APHA 4500-Si-C	30.2	-	-
15.	Colloidal Silica as (SiO <sub>2</sub> )	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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**Authorized Signatory**



**(Dr. Divya Misra)**  
**Managing Director**

"End of this Test Report"

Page 1 of 1

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





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E-mail: prakriti\_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001671



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/01/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	<b>Borewell-1</b>	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1187	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.54	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1210	---	---
3.	Turbidity	NTU	APHA 2130 B	0.22	1	5
4.	TDS	mg/l	APHA 2540 C	740.0	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	372.0	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	445.0	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	116.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	92.0	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	2.53	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	54.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	57.6	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	153	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	31.60	-	-
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' 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.

Authorized Signatory

*(Signature)*  
(Dr. Divya Misra)  
Managing Director

"End of this Test Report"

Page 1 of 2

## Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/01(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
4. Sampling Location		Borewell-1		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1187		12. Sample Analyzed By		Ms Shivani Chaturvedi
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

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E-mail: prakriti\_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001672



Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/02/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
4. Sampling Location		Borewell-2		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1188		12. Sample Analyzed By		Ms Shivani Chaturvedi
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	7.60	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1115	---	---
3.	Turbidity	NTU	APHA 2130 B	0.24	1	5
4.	TDS	mg/l	APHA 2540 C	675	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	338	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	418	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	100	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	106	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	2.4	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	49.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	52.4	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	158	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	30.5	-	-
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	0.051	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

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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, Clearances from  
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/02(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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	12/10/2023	
4. Sampling Location		Borewell-2		10. Sample receipt in lab	13/10/2023	
5. Weather Condition		Clear Sky		11. Date of Analysis	14/10/2023- 20/10/2023	
6. Lab Code		PCS23/187/1188		12. Sample Analyzed By	Ms Shivani Chaturvedi	
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

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





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Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001673



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/03/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	<b>Borewell-3</b>	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1189	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	2130	---	---
3.	Turbidity	NTU	APHA 2130 B	0.27	1	5
4.	TDS	mg/l	APHA 2540 C	1295	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	462	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	416	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	193	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	164	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	3.20	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	70.5	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	69.4	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	188	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	32.5	-	-
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	0.024	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	0.056	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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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 UP PCB, MoEF

## Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/03(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
4. Sampling Location		Borewell-3		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1189		12. Sample Analyzed By		Ms Shivani Chaturvedi
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

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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 UP PCB, MoEF



## Test Report for Borewell Water Quality

ULR- TC824123000001674



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/04/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	<b>Borewell-4</b>	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1190	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.60	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1010	---	---
3.	Turbidity	NTU	APHA 2130 B	0.18	1	5
4.	TDS	mg/l	APHA 2540 C	610	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	318	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	372	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	49.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	52.3	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	1.71	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	45.9	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	86.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	28.60	-	-
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' 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

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Page 1 of 2

## Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/04(a)/2023		PCS/IFFCO/03/2023		25/10/2023		
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		PCS23/187/1190		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		As per Standard Method		
				12/10/2023		
				13/10/2023		
				14/10/2023- 20/10/2023		
				Ms Shivani Chaturvedi		
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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Authorized Signatory

(Dr. Divya Misra)  
Managing Director

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GSTIN :- 09AAJFP5925GIZY

## Test Report for Borewell Water Quality

ULR- TC824123000001675



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/05/2023	PCS/IFFCO/03/2023	25/10/2023

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	<b>Borewell-5</b>
5. Weather Condition	Clear Sky
6. Lab Code	PCS23/187/1191
7. Quantity of Sample	2 liter
8. Method of Sampling	As per Standard Method
9. Date of sampling	12/10/2023
10. Sample receipt in lab	13/10/2023
11. Date of Analysis	14/10/2023- 20/10/2023
12. Sample Analyzed By	Ms Shivani Chaturvedi

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	780	---	---
3.	Turbidity	NTU	APHA 2130 B	0.20	1	5
4.	TDS	mg/l	APHA 2540 C	472	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	308	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	390	200	600
7.	Chloride as Cl	mg/l	APHA 4500-CL,B	21.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	27.0	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	1.85	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	45.9	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	47.0	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	68.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	33.2	-	-
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	0.047	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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Page 1 of 2

## Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/05(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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	12/10/2023	
4. Sampling Location		Borewell-5		10. Sample receipt in lab	13/10/2023	
5. Weather Condition		Clear Sky		11. Date of Analysis	14/10/2023- 20/10/2023	
6. Lab Code		PCS23/187/1191		12. Sample Analyzed By	Ms Shivani Chaturvedi	
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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Managing Director

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E-mail: prakriti\_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001676



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/06/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	Borewell-6	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1192	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.60	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	750	---	---
3.	Turbidity	NTU	APHA 2130 B	0.17	1	5
4.	TDS	mg/l	APHA 2540 C	455	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	294	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	375	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	19.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	25.0	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	2.49	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	42.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	45.9	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	65.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	29.8	-	-
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	0.044	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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## Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/06(a)/2023		PCS/IFFCO/03/2023		25/10/2023		
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		12/10/2023	
4. Sampling Location		<b>Borewell-6</b>	10. Sample receipt in lab		13/10/2023	
5. Weather Condition		Clear Sky	11. Date of Analysis		14/10/2023- 20/10/2023	
6. Lab Code		PCS23/187/1192	12. Sample Analyzed By		Ms Shivani Chaturvedi	
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.

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Managing Director

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GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001677



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/07/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	Borewell-7	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1193	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	830	---	---
3.	Turbidity	NTU	APHA 2130 B	0.19	1	5
4.	TDS	mg/l	APHA 2540 C	504	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	295	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	396	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	24.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	35.0	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	2.45	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	43.0	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	82.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	29.90	-	-
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	0.050	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

## Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/07(a)/2023		PCS/IFFCO/03/2023		25/10/2023		
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	12/10/2023		
4. Sampling Location		Borewell-7	10. Sample receipt in lab	13/10/2023		
5. Weather Condition		Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023		
6. Lab Code		PCS23/187/1193	12. Sample Analyzed By	Ms Shivani Chaturvedi		
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	-	-

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



## Test Report for Borewell Water Quality

ULR- TC824123000001678



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/08/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	Borewell-8	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1194	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.49	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1990	---	---
3.	Turbidity	NTU	APHA 2130 B	0.21	1	5
4.	TDS	mg/l	APHA 2540 C	1210	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	562	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	428	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	268	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	214	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	1.81	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	75.6	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	90.6	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	225.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	34.6	-	-
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' 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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## Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/08(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
4. Sampling Location		Borewell-8		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1194		12. Sample Analyzed By		Ms Shivani Chaturvedi
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.

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Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001679



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/09/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	<b>Borewell-9</b>	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1195	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.65	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1750	---	---
3.	Turbidity	NTU	APHA 2130 B	0.19	1	5
4.	TDS	mg/l	APHA 2540 C	1060	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	452	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	410	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	216	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	184	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	3.62	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	64.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	71.0	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	210	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	34.6	-	-
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	0.053	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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### 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 for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/09(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
4. Sampling Location		Borewell-9		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1195		12. Sample Analyzed By		Ms Shivani Chaturvedi
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 absense 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- TC824123000001680



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/10/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	<b>Borewell-10</b>	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1196	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.70	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1050	---	---
3.	Turbidity	NTU	APHA 2130 B	0.20	1	5
4.	TDS	mg/l	APHA 2540 C	635.0	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	318.0	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	385.0	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	58.5	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	48.4	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	1.42	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	43.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	51.2	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	93.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	34.2	-	-
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	0.050	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

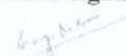
\*As per APHA/AWWA; 22nd Ed. (2012) \*\* NR= No relaxation.

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Managing Director

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## Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/10(a)/2023		PCS/IFFCO/03/2023		25/10/2023		
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		12/10/2023	
4. Sampling Location		<b>Borewell-10</b>	10. Sample receipt in lab		13/10/2023	
5. Weather Condition		Clear Sky	11. Date of Analysis		14/10/2023- 20/10/2023	
6. Lab Code		PCS23/187/1196	12. Sample Analyzed By		Ms Shivani Chaturvedi	
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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# 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)

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GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001681



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/11/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	Borewell-11	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1197	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.60	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1230	---	---
3.	Turbidity	NTU	APHA 2130 B	0.14	1	5
4.	TDS	mg/l	APHA 2540 C	740	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	395	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	410	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	85.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	124.0	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	2.58	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	57.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	61.4	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	122.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	36.1	-	-
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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Managing Director

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## Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/11(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
4. Sampling Location		Borewell-11		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1197		12. Sample Analyzed By		Ms Shivani Chaturvedi
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	-	-

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(Dr. Divya Misra)  
Managing Director

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## Test Report for Borewell Water Quality

ULR- TC824123000001682



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/12/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	Borewell-12	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1198	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.70	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	918.0	---	---
3.	Turbidity	NTU	APHA 2130 B	0.19	1	5
4.	TDS	mg/l	APHA 2540 C	556	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	314	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	385.0	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	43.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	64.9	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	2.29	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	44.7	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	93.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	32.50	-	-
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

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Managing Director

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Page 1 of 2

## Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/12(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
4. Sampling Location		Borewell-12		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1198		12. Sample Analyzed By		Ms Shivani Chaturvedi
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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Tel: 0522-4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001683



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/13/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	Borewell-13	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1199	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.60	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1740	---	---
3.	Turbidity	NTU	APHA 2130 B	0.22	1	5
4.	TDS	mg/l	APHA 2540 C	1055	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	421	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	502	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	175.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	108	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	3.11	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	67.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	61.6	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	204.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	32.0	-	-
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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5. No deviation as per the Standard Method.

Authorized Signatory

*(Signature)*

(Dr. Divya Misra)  
Managing Director

"End of this Test Report"

Page 1 of 2

## Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date	
PCS/BWQ/13(a)/2023		PCS/IFFCO/03/2023		25/10/2023	
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		12/10/2023
4. Sampling Location		<b>Borewell-13</b>	10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky	11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1199	12. Sample Analyzed By		Ms Shivani Chaturvedi
7. Quantity of Sample		2 liter			
Sl. No.	Parameters	Unit	Reference Method*	Result	<u>BIS Standard IS 10500: 2012</u>
					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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(Dr. Divya Misra)  
Managing Director

"End of this Test Report"

Page 2 of 2

Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology  
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Ground Water Board, Compliance of E.C., NOC from UPPCR, MoEF





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E-mail: prakriti\_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001684



Report No.			Lab Reference No.			Issue Date
PCS/BWQ/14/2023			PCS/IFFCO/03/2023			25/10/2023
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		12/10/2023
4. Sampling Location		Borewell-14		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1200		12. Sample Analyzed By		Ms Shivani Chaturvedi
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	7.70	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1160	---	---
3.	Turbidity	NTU	APHA 2130 B	0.15	1	5
4.	TDS	mg/l	APHA 2540 C	700	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	359	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	410	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	78.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	84.0	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	2.29	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	55.0	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	116.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	30.60	-	-
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	0.044	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

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Page 1 of 2

## Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/14(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
4. Sampling Location		Borewell-14		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1200		12. Sample Analyzed By		Ms Shivani Chaturvedi
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,

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Tel: 0522-4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001685



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/15/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	<b>Borewell-15</b>	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1201	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	7.65	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1030	---	---
3.	Turbidity	NTU	APHA 2130 B	0.19	1	5
4.	TDS	mg/l	APHA 2540 C	625	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	308	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	370	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	53.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	59.0	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	2.52	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	46.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	46.9	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	90.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	32.10	-	-
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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(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., NDC from UP PCB, MoEF

## Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/15(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
4. Sampling Location		Borewell-15		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1201		12. Sample Analyzed By		Ms Shivani Chaturvedi
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.

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**Managing Director**

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GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001686



Report No.			Lab Reference No.			Issue Date
PCS/BWQ/16/2023			PCS/IFFCO/03/2023			25/10/2023
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		12/10/2023
4. Sampling Location		Borewell-16		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1202		12. Sample Analyzed By		Ms Shivani Chaturvedi
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	7.20	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1070	---	---
3.	Turbidity	NTU	APHA 2130 B	0.18	1	5
4.	TDS	mg/l	APHA 2540 C	645	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	351	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	420	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	75.4	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	78.0	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	2.16	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	56.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	51.3	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	118.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	33.5	-	-
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.

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Managing Director

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## Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/16(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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-16		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS23/187/1202		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Shivani Chaturvedi		
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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Authorized Signatory



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Managing Director

"End of this Test Report"





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GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001687



Report No.	Lab Reference No.	Issue Date
PCS/BWQ/17/2023	PCS/IFFCO/03/2023	25/10/2023

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	12/10/2023
4. Sampling Location	Borewell-17	10. Sample receipt in lab	13/10/2023
5. Weather Condition	Clear Sky	11. Date of Analysis	14/10/2023- 20/10/2023
6. Lab Code	PCS23/187/1203	12. Sample Analyzed By	Ms Shivani Chaturvedi
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	1686	---	---
3.	Turbidity	NTU	APHA 2130 B	0.22	1	5
4.	TDS	mg/l	APHA 2540 C	1020	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	414	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	410	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	185	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	118	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	3.76	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	68.8	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	58.8	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	180	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	29.7	-	-
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	0.044	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

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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 UP PCB, MoEF

## Test Report for Borewell Water Quality

Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/17(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
4. Sampling Location		Borewell-17		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1203		12. Sample Analyzed By		Ms Shivani Chaturvedi
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	-	-

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# 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)

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GSTIN :- 09AAJFP5925G1ZY

## Test Report for Borewell Water Quality

ULR- TC824123000001688



Report No.			Lab Reference No.			Issue Date
PCS/BWQ/18/2023			PCS/IFFCO/03/2023			25/10/2023
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		12/10/2023
4. Sampling Location		Borewell-18		10. Sample receipt in lab		13/10/2023
5. Weather Condition		Clear Sky		11. Date of Analysis		14/10/2023- 20/10/2023
6. Lab Code		PCS23/187/1204		12. Sample Analyzed By		Ms Shivani Chaturvedi
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	7.70	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	840	---	---
3.	Turbidity	NTU	APHA 2130 B	0.20	1	5
4.	TDS	mg/l	APHA 2540 C	506	500	2000
5.	Hardness as CaCO <sub>3</sub>	mg/l	APHA 2340 C	302	200	600
6.	Alkalinity as CaCO <sub>3</sub>	mg/l	APHA 2320 B	398	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	45.0	250	1000
8.	Sulphate as SO <sub>4</sub>	mg/l	APHA 4500-SO <sub>4</sub> ,E	39.0	200	400
9.	Nitrate as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> ,E	2.17	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	47.6	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	44.5	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	94.0	-	-
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 <sub>2</sub> )	mg/l	APHA 4500-Si-C	30.10	-	-
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.

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PCS/BWQ/18(a)/2023		PCS/IFFCO/03/2023			25/10/2023	
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		12/10/2023
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6. Lab Code		PCS23/187/1204		12. Sample Analyzed By		Ms Shivani Chaturvedi
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	-	-

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